



Project no.: SSPE-CT-2006-44405

Project acronym: RIVERS

***"Resistance of Influenza Viruses in Environmental Reservoirs and
Systems"***

Instrument: Specific Targeted Research Project

Thematic Priority 8.1B

Final Management Report

Period covered: From 01.02.2007 to 31.07.2010 (M1-M42)

Date of preparation: 10/03/2011

Start date of project: 01 February 2007

Duration: 42 months

Project coordinator: Jean-Claude MANUGUERRA

Project coordinator organisation: Institut Pasteur, Paris (France)

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Section 1 – Justification of major cost items and resources

Partner 1 – Institut Pasteur Paris (AC Cost Model)
Scientific Leader: Jean-Claude MANUGUERRA

Description of the work performed

Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008

As Coordinator of the RIVERS project, Institut Pasteur Paris was involved in Work Packages 0, 1, 2, 4, 5, 6, 7, 8, 9 and 11 and produced expected deliverables. The work performed is further described and detailed in the Periodic Activity Report.

Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010

As coordinator of the RIVERS project, Institut Pasteur Paris was involved in Work Packages 0, 1, 2, 4, 5, 6, 7, 8, 9 and 11 and produced expected deliverables and milestones. The work performed is further described and detailed in the Periodic Activity Report.

Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010

As coordinator of the RIVERS project, Institut Pasteur Paris was involved in Work Packages 0, 1, 2, 4, 5, 6, 7, 8, 9 and 11 and produced expected deliverables and milestones. The work performed is further described and detailed in the Periodic Activity Report.

Explanatory note on cost items and justification

– Personnel funded by the project:

LAST NAME, First name	Total Person-Months	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008		
Total P1	0	0.00
Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010		
SHIGEMATSU Sayuri	3	4 428
DUBLINEAU Amélie	16	45,347.69
Total P2	19	49,775.69
Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010		
SHIGEMATSU Sayuri	6	9,189.13
DUBLINEAU Amélie	6	22,669.57
LE GOUIL Meriadeg	1	4,600.00
Total P3	13	36,458.70
Total P1+P2+P3 (M1-M42)	32	86,234.39

– Consumables:

Type of consumable	Date of invoice	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
Enzymes	-	1,344.56
Chemical products and consumables	-	1,648.33
Glass products, small	-	1,029.62

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equipment and other consumables		
Total P1		4,022.51
Reporting Period P2 (M19-M36)		
Chemical and biological products	-	6,530.00
Lab supplies	-	8,330.00
Purchase of materials and supplies	-	2,271.70
Total P2		17,131.70
Reporting Period P3 (M37-M42)		
PROD BIOLOGIQUES ET CHIMIQUES	-	14,350.00
MAT CONSOM. LABORATOIRES	-	12,250.00
ACHATS MATÉRIEL ET FOURNITURES	-	6,733.07
Total P3		33,333.07
Total P1+P2+P3 (M1-M42)		54,487.28

- Travel:

Type of travel	Date	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
Kick-Off meeting	12-13.02.2007	1,275.25
RIVERS meeting 2008	23.05.2008	2,747.28
Total P1		4,022.53
Reporting Period P2 (M19-M36)		
MICROBAERO Conference in Narbonne (Christophe BATEJAT)	05.10.2009-07.10.2009	542.20
Total P2		542.20
Reporting Period P3 (M37-M42)		
RIVERS Final Meeting (Paris, France)	28/07/2010	1,835.28
Total P3		1,835.28
Total P1+P2+P3 (M1-M42)		6,400.01

- Durable Equipment:

Type of Equipment (Description)	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)	
Total P1	0.00
Reporting Period P2 (M19-M36)	
Total P2	0.00
Reporting Period P3 (M37-M42)	
Total P3	0.00
Total P1+P2+P3	0.00

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– Audit certificate (Subcontracting/Management Activities):

Name of Auditor	Amount (€) [Excl. of Tax]
1 audit certificate covering Reporting Periods 1, 2 and 3	
Grant Thornton	1,200.00
Total	1,200.00

– Indirect costs (20% flat rate):

Indirect Costs (€) [Excl. of Tax]	
Reporting Period P1 (M1-M18)	
Total	1,609.01
Reporting Period P2 (M19-M36)	
Total	13,489.92
Reporting Period P3 (M37-M42)	
Total	14,325.41
Total P1+P2+P3	29,424.34

Summary of costs

	Period P1 (M1-M18) (€) [Excl. of Tax]	Period P2 (M19-M36) (€) [Excl. of Tax]	Period P3 (M37-M42) (€) [Excl. of Tax]
Personnel	0.00	49,775.69	36,458.70
Consumables	4,022.51	17,131.70	33,333.07
Travel	4,022.53	542.20	1,835.28
Durable Equipment	0.00	0.00	0.00
Audit Certificate	0.00	0.00	1,200.00
Indirect Costs	1,609.01	13,489.92	14,325.41
Total	9,654.05	80,939.50	87,152.46
Total P1+P2+P3	177,746.01		

Major deviations from cost budget and from person-month budget

None.

Description of the work performed**Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008****- Impact of water treatments on virus survival (WP4)**

Part of work has been done on the stability of influenza viruses submitted to various temperature, pH and protein content. The virucidal efficacy of disinfectants was also assessed. The disinfectants belong to 4 different groups: 1/ chlorine based, 2/ oxidative agents, 3/ aldehydes and 4/ alcohols. The length of contact time was determined according to manufacturers' instructions. The strain used was the reassortant NIB-RG 91 derived from A/Vietnam/1194/2004(H5N1). The virus viability was tested by the inoculation of 4 embryonated hen egg per sample with measured quantities of virus (in EID₅₀ or qRT-PCR). Basically disinfectants have a good efficacy apart from alcohol based ones.

- Other WPs

Following the Tulcea outbreak of H5N1 HPAI in November 2007 and 3 weeks after, samples were collected from soil, faeces, food and water.

In the Danube Delta, samples were collected from the lake Mahmudia: soil, faeces and water.

Samples were frozen at -70°C and have not been processed as yet.

Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010

In this part of the project our work continued to assess the impact of the aldehydes agents against the AIV – reverse genetic reassortant (NIBRG – 14, clade 1) in standing and running water. The action of the UV light was assessed also. Viability of the influenza virus was tested by qRT-PCR at 72 hours after inoculation of samples in MDCK cells. The results suggest that glutaraldehyde shows a good efficacy of destroying of virus infectivity in relation with environmental temperature. Ultraviolet radiation light has been proven to inactivate AIVs in 10 - 20 min in experimental condition if the viral loading is 10³ TCID₅₀/0.1 ml and the effective dose of irradiation is at least 3000 J/m².

The persistence of the infective viral particles of same influenza reassortant (10⁴ TCID₅₀) was evaluated in three kind of water: rivers, lake and Black Sea water, and PBS as control, in according with their main characteristics: pH, salinity, protein content, oxygen, nitrite, ammonium, phosphate content, at three temperatures: 4-8°C; 22°C and 35°C. Viability of the influenza virus was tested periodically by microELISA technique in MDCK cells. Our results show that the viability of the virus is maintained at least 20 days at low temperature and 12 days post-infection at higher temperature.

Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010

The work performed is further described and detailed in the Periodic Activity Report.

Explanatory note on cost items and justification**- Personnel funded by the project:**

LAST NAME, First name	Total Person-Months	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008		
Total P1	0	0.00
Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010		
Total P2	0	0.00
Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010		
Total P3	0	0.00
Total P1+P2+P3 (M1-M42)	-	0.00

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– Consumables:

Type of consumable	Date of invoice	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
Embryonated eggs	24.02.2007	23.74
Syringe with needle 10 and 5 ml	03.04.2007	316.27
ANTIVIRUS KASPERSKY	17.05.2007	72.92
Thick PVC sacks	21.05.2007	366.30
Plastic bags	21.05.2007	364.60
CLEANING MATERIALS	21.05.2007	56.10
WRAPPING PAPER	21.05.2007	117.29
STRING	21.05.2007	121.96
Office supplies, antivirus, USB Pen 1 GB	21.06.2007	63.31
Tubes 10 ml	06.07.2007	223.85
TUBES	06.07.2007	50.25
TUBES	06.07.2007	395.69
Tubes 10 ml	31.07.2007	223.85
Tubes 15	31.07.2007	237.42
Multidish 24 wells	13.08.2007	337.13
Tubes 15 ml	24.08.2007	778.21
96 microwell plates NUNCLON	24.08.2007	193.53
Disposal bags, thickness of foil	24.08.2007	485.55
Multidish 24 wells	18.09.2007	118.80
Syrfil 25 mm, 0.45 uM	18.09.2007	1,951.39
Superscript platinum one-step	19.09.2007	1,474.71
Tubes 10 ml	27.09.2007	223.85
Embryonated eggs	05.10.2007	26.51
Multidish non-treated	11.10.2007	404.81
Embryonated eggs	12.10.2007	26.51
Embryonated eggs	18.10.2007	26.71
Embryonated eggs	02.11.2007	50.25
Tubes 15 ml, Syrfil 25 mm, 0.22 uM	08.11.2007	1,176.22
Multidish 24 wells	13.03.2008	2,420.74
PCR primers	11.06.2008	321.98
Multilow binding Soft tips	16.06.2008	1,429.58
96 microwell plates, pipettes	02.07.2008	531.20
Agarose, tips PCR	03.07.2008	741.64
DNA ladder, microtubes PCR	09.07.2008	272.75
Pipettes 2 ml	10.07.2008	79.84
Syrfil 25 mm, 0.45, 0.22, 0.5 uM	10.07.2008	1,399.46
Pipettes 10 ml	16.07.2008	56.60
TRI reagent (200 ml)	16.07.2008	533.44
Full Velocity SYBRGreen qRT-PCR	17.07.2008	3,683.84

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Tris/Acetic acid/EDTA	18.07.2008	285.57
Tubes strips, cap strips, barrier tips PCR	18.07.2008	1,448.52
Cryotubes Corning	22.07.2008	438.30
96 microwell plates	23.07.2008	671.19
Conditioner air	23.07.2008	273.14
One-step RT-PCR kit Qiagen	25.07.2008	869.07
One-step RT-PCR kit Invitrogen	25.07.2008	2,261.52
Pipettes 2 ml	28.07.2008	69.93
Microtubes	28.07.2008	68.96
Small equipment for laboratory	28.07.2008	5,194.89
Compact laboratory for water testing	28.07.2008	263.48
RNA extraction kit	29.07.2008	1,381.00
Sterilisant Filter 0.22 uM	29.07.2008	338.41
Total P1		34,942.78
Adjustment to Period P1 after audit conducted by Confident Expert CP		
Embryonated eggs	24.02.2007	24.86
Syringe with needle 10 and 5 ml	03.04.2007	335.58
ANTIVIRUS KASPERSKY	17.05.2007	78.81
CLEANING MATERIALS	21.05.2007	716.85
Office supplies, antivirus, USB Pen 1 GB	21.06.2007	69.92
Tubes 10 ml	06.07.2007	253.94
Tubes 3.5 ml	06.07.2007	864.44
Tubes 10 ml	31.07.2007	516.62
Tubes 15	31.07.2007	125.36
Multidish 24 wells	13.08.2007	372.94
Tubes 15 ml	24.08.2007	844.60
96 microwell plates NUNCLON	24.08.2007	210.04
Disposal bags, thickness of foil	24.08.2007	526.97
Multidish 24 wells	18.09.2007	124.36
Syrfil 25 mm, 0.45 uM	18.09.2007	2042.66
Superscript platinum one-step	19.09.2007	1547.26
Tubes 10 ml	27.09.2007	234.66
Embryonated eggs	05.10.2007	27.92
Multidish non-treated	11.10.2007	430.04
Embryonated eggs	12.10.2007	28.08
Embryonated eggs	02.11.2007	28.28
Tubes 15 ml, Syrfil 25 mm, 0.22 uM	08.11.2007	1222.96
Embryonated eggs	29.11.2007	23.80
Multidish 24 wells	13.03.2008	2306.09
PCR primers	11.06.2008	310.95
Multilow binding Soft tips	18.06.2008	1380.35
96 microwell plates, pipettes	02.07.2008	516.91

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Agarose, tips PCR	03.07.2008	720.72
DNA ladder, microtubes PCR	09.07.2008	273.93
Pipettes 2 ml	10.07.2008	79.62
Syrfil 25 mm, 0.45, 0.22, 0.5 uM	10.07.2008	1395.64
Pipettes 10 ml	16.07.2008	55.73
TRI reagent (200 ml)	16.07.2008	525.21
Full Velocity SYBRGreen qRT-PCR	17.07.2008	3659.12
Tris/Acetic acid/EDTA	18.07.2008	222.36
Tubes strips, cap strips, barrier tips PCR	18.07.2008	1442.52
Cryotubes Corning	22.07.2008	435.17
96 microwell plates	23.07.2008	664.49
Conditioner air	23.07.2008	270.41
One-step RT-PCR kit Qiagen	26.07.2008	867.26
One-step RT-PCR kit Invitrogen	25.07.2008	2242.88
Pipettes 2 ml	28.07.2008	54.45
Microtubes	28.07.2008	63.18
Small equipment for laboratory	28.07.2008	5184.05
RNA extraction kit	28.07.2008	1378.12
Sterilisant Filter 0.22 uM	29.07.2008	337.80
Total P1 (adjusted)		35,037.91
Total P1 (adjusted) – Total P1 accepted by EC		+95.13
Reporting Period P2 (M19-M36)		
Compact laboratory for water testing	12.08.2008	219.93
Consumables (tips, pipettes, plastics etc.)	18.08.2008; 11.09.2008	1,252.88
UV lamp for microbiology and accessories	24.04.2009	378.56
Beef extract	30.04.2009	131.94
Small equipment for laboratory	01.06.2009	231.24
Laboratory reagents	12.08.2009; 19.08.2009; 18.08.2009; 03.09.2009; 28.09.2009	8,153.18
Total P2		10,367.73
Adjustment to Period P2 after audit conducted by Confident Expert CP		
Compact laboratory for water testing	12.08.2008	263.33
Consumables (tips, pipettes, plastics etc.)	18.08.2009; 11.09.2008	2,689.94
UV lamp for microbiology and accessories	24.04.2009	375.31
Beef extract	30.04.2009	133.46
Small equipment for laboratory	01.06.2009	234.24
Laboratory reagents	12.08.2009; 15.08.2009; 18.08.2009; 03.09.2009; 28.09.2009	5,570.62
Total P2 (adjusted)		9,266.90

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Total P2 (adjusted) – Total P2 accepted by EC		-1,100.83
Reporting Period P3 (M37-M42)		
Laboratory reagents	07.04.2010	9,830.74
Lab supplies	30.06.2010	2,070.38
Total P3		11,901.12
Total P1+P2+P3 (M1-M42)		56,205.93

– Travel:

Type of travel	Date	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
External travel	06.02.2007	559.51
Internal travel	19.12.2007	268.08
Total P1		827.59
Adjustment to Period P1 after audit conducted by Confident Expert CP		
External travel	06.02.2007	587.80
Internal travel	19.12.2007	268.28
Total P1 (adjusted)		856.08
Total P1 (adjusted) – Total P1 accepted by EC		+28.49
Reporting Period P2 (M19-M36)		
Internal travel	09.10.2009	282.16
Total P2		282.16
Adjustment to Period P2 after audit conducted by Confident Expert CP		
Internal travel	09.10.2009	279.42
Total P2 (adjusted)		279.42
Total P2 (adjusted) – Total P2 accepted by EC		-2.74
Reporting Period P3 (M37-M42)		
Total P3		0.00
Total P1+P2+P3 (M1-M42)		1,135.50

– Durable Equipment:

Type of Equipment (Description)	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)	
Total P1	0.00
Reporting Period P2 (M19-M36)	
Total P2	0.00
Reporting Period P3 (M37-M42)	
Total P3	0.00
Total P1+P2+P3	0.00

– Audit certificate (Subcontracting/Management Activities):

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Name of Auditor	Amount (€) [Excl. of Tax]
1 audit certificate covering Reporting Periods 1, 2 and 3	
Confident Expert CP	1,500.00
Total	1,500.00

An audit was carried out by Confident Expert CP, covering reporting periods from P1 to the last reporting period of the project (01/02/2007-31/07/2010). However, its cost is not eligible as it was conducted past the 45-day after the end of the final period deadline.

– Indirect costs (20% flat rate):

Indirect Costs (€) [Excl. of Tax]	
Reporting Period P1 (M1-M18)	
Total	7,154.07
<i>Adjustment to Period P1 after audit conducted by Confident Expert CP</i>	7,178.80
Reporting Period P2 (M19-M36)	
Total	2,129.98
<i>Adjustment to Period P2 after audit conducted by Confident Expert CP</i>	1,909.26
Reporting Period P3 (M37-M42)	
Total	2,380.22
Total P1+P2+P3	11,468.28

Summary of costs

	Period P1 (M1-M18) (€) [Excl. of Tax]	Period P2 (M19-M36) (€) [Excl. of Tax]	Period P3 (M37-M42) (€) [Excl. of Tax]
Personnel	0.00	0.00	0.00
Consumables	34,942.78	10,367.73	11,901.12
Travel	827.59	282.16	0.00
Durable Equipment	0.00	0.00	0.00
Audit Certificate	0.00	0.00	1,500.00 (not eligible for reimbursement)
Indirect Costs	7,154.07	2,129.98	2,380.22
Adjustments to previous periods	+148.35	-1,324.29	-1,175.94 (P1: +148.35 + P2: -1,324.29)
Total	42,924.44	12,779.87	13,105.40
Total P1+P2+P3	68,809.71		

Major deviations from cost budget and from person-month budget

Adjustments were made to the Period P1 and Period P2 costs following the audit conducted by Confident Expert CP.

Partner 3 – The Stephan Angeloff Institute of Microbiology (AC Cost Model)

Scientific Leader: Angel S. GALABOV

Description of the work performed**Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008****Work Package 2**

Study and test of wild, domestic birds for AIV detection. Collection of samples from water reservoirs for testing. Experimental design.

Study on the survival of strains of avian influenza A viruses in natural surface waters visited by migrating and wintering wild waterfowls: (1) Physical and chemical characteristics of the surface waters of reservoirs visited by migrating and wintering wild waterfowls; (2) I. Microbiological study of waters from different water reservoirs visited by migrating and wintering birds; (3) Persistence of avian influenza viruses in waters from different reservoirs visited by migratory and wintering wild birds.

Work Package 6

Working protocol for establishment of presence and circulation of avian influenza viruses in the farms and surrounding areas.

→ Development of standardized scheme for sample collection from poultry holdings and belonging surrounding territory for detection of avian influenza viruses' circulation.

→ Samples collection.

→ Analysis of avian flu state in Bulgaria.

Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010

The MICB team was mainly involved in Work Package 6. The work performed is further described and detailed in the Periodic Activity Report.

Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010

The research team of MICB work was predominantly in Work Package 6: (1) Continuation of the epizootological, virological and molecular investigations on influenza A virus strains in wild and domestic birds in Bulgaria during the period February – July 2010, carried out on mule ducks and wild migratory ducks; (2) Experimental studies on susceptibility of domestic geese to low-pathogenic avian influenza A virus isolate H6N2: a. Clinical manifestation of the infection; b. Re-isolation of the virus; c. Serological responses; (3) Influence of inoculation dose of low-pathogenic avian H6N2 influenza A virus on virus shedding after artificial generalized infection in ducks.

Explanatory note on cost items and justification

– Personnel funded by the project:

LAST NAME, First name	Total Person-Months	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008		
Angel S. GALABOV	5.5	5,782.00
Georgi GEORGIEV	5	5,036.00
Ivan ZARKOV	4	4,820.00
Lora SIMEONOVA	2	676.00
Lilyana WASSILEWA	1.5	751.00
Gabriela GUJGULOVA	2.5	1,126.00
Lucia MUKOVA	1.5	450.00
Galya GEGOVA	1	282.00
Total P1	23	18,923.00
Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010		

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Angel S. GALABOV	2.5	1,652.00
Georgi GEORGIEV	2.5	1,652.00
Ivan ZARKOV	4	2,825.00
Lora SIMEONOVA	1.5	855.00
Gabriela GUJGULOVA	1.5	855.00
Lucia MUKOVA	1	176.00
Total P2	13	8,015.00
Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010		
Angel S. GALABOV	2	3,327.00
Georgi GEORGIEV	1.5	2,630.00
Ivan ZARKOV	1.5	2,500.00
Lora SIMEONOVA	0.5	676.00
Gabriela GUJGULOVA	0.25	338.00
Lilia WASSILEWA	0.25	307.00
Total P3	6	9,778.00
Total P1+P2+P3 (M1-M42)	-	36,716.00

– Consumables:

Type of consumable	Date of invoice	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
Chemicals, reagents, cell culture media	04/05/2007-30/06/2008	5,332.00
Laboratory glass & plastic vessels	13/07/2007-26/06/2008	2,723.00
<i>In vivo</i> biological test material	31/07/2007-27/06/2008	174.00
Disinfectants	27/06/2007-25/06/2008	73.00
Information products	23/04/2007-25/06/2008	584.00
Mail expenses	03/04/2007-29/02/2008	370.00
Office materials	15/06/2007-30/06/2008	214.00
Spare parts	05/11/2007-29/07/2008	107.00
Total P1		9,577.00
Reporting Period P2 (M19-M36)		
Chemicals, reagents, cell culture media	01.08.2008 – 31.01.2010	3,988.00
<i>In vivo</i> biological test material	01.08.2008 – 31.01.2010	225.00
Disinfectants	-	0.00
Information products	-	0.00
Mail expenses	-	0.00
Office materials	01.08.2008 – 31.01.2010	166.00
Spare parts	01.08.2008 – 31.01.2010	561.00
Total P2		4,940.00
Reporting Period P3 (M37-M42)		
Chemicals, reagents, cell culture media	01.03.2010 – 31.03.2010	1,055.00
<i>In vivo</i> biological test material	-	0.00
Disinfectants	-	0.00
Information products	-	0.00

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Mail expenses	01.03.2010 – 31.03.2010	63.00
Office materials	01.07.2010 – 31.07.2010	31.00
Spare parts	-	0.00
Total P3		1,149.00
Total P1+P2+P3 (M1-M42)		15,666.00

- Travel:

Type of travel	Date	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
Project team meeting, Paris, France(3 people)	10-14/02/2007	2,531.00
Project team meeting, Paris (1 person)	25-27/02/2007	121.00
International conference in Palm Springs, USA (1 person)	26/04-06-05/2007	412.00
International conference in Amritsar, India (1 person)	14-23/02/2008	425.00
International conference in Montreal, Canada (3 people)	12-19/04/2008	2,731.00
International conference in Paris, France (1 person)	24-28/06/2008	242.00
National congress in Sofia, Bulgaria (all research team – 8 people)	28-31/05/2008	451.00
Project Bulgarian team meeting in Sofia, Bulgaria	17-19/07/2008	76.00
Total P1		6,989.00
Reporting Period P2 (M19-M36)		
International Congress of Virology, Turkey (1 person)	09.08.2008-16.08.2008	547.00
II nd World Conference on Magic Bullets "Paul Ehrlich II), Germany (1 person)	01.10.2008-07.10.2008	499.00
Symposium on Great Influenza, London (1 person)	09.11.2008-11.11.2008	440.00
Symposium on Balkan Endemic Nephropathy, Belgrade (1 person)	16.04.2009-18.04.2009	105.00
22 nd ICAR, Miami Beach, USA (2 people)	02.05.2009-11.05.2009	1,792.00
27 th Annual Forum of Children Infectious Diseases (1 person)	07.06.2009-12.06.2009	217.00
H1N1 Flu Meeting, Institut Pasteur, France (2 people)	02.09.2009-05.09.2009	1,007.00
FEMS Meeting, Spain (1 person)	11.09.2009-14.09.2009	1,024.00
6 th Balkan Conference Microbiologia Balkanika, Rep. Macedonia (4 people)	27.10.2009-31.10.2009	2,106.00
RIIP Franco-Brasilian Microbiol. Symposium, Brazil	17.10.2009-24.10.2009	278.00
Total P2		8,015.00
Reporting Period P3 (M37-M42)		

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Workshop New Frontiers of Infectious Diseases – Rome (1 person)	25.03.2010	289.00
RIVERS Closing Meeting – Paris (2 persons)	28.07.2010	240.00
Total P3		529.00
Total P1+P2+P3 (M1-M42)		15,533.00

– Durable Equipment:

Type of Equipment (Description)	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)	
Pure water system	2,454.00
CO2 incubator	4,474.00
Lamina flow (2)	3,889.00 and 5,000.00
Refrigerator (-30°C); analytical	408.00
Balance	1,891.00
Computer configuration	824.00
Total P1	18,940.00
Reporting Period P2 (M19-M36)	
Lamina flow – partitively	2,117.00
Computer configuration	556.00
Aspiration system	511.00
Total P2	3,184.00
Reporting Period P3 (M37-M42)	
Printer	552.00
Total P3	552.00
Total P1+P2+P3	22,676.00

– Audit certificate (Subcontracting/Management Activities):

Name of Auditor	Amount (€) [Excl. of Tax]
1 audit certificate covering Reporting Periods 1, 2 and 3	
Eleonora Ivanova Bilbileva Registered Auditor	1,500.00
Total	1,500.00

– Indirect costs (20% flat rate):

Indirect Costs (€) [Excl. of Tax]	
Reporting Period P1 (M1-M18)	
Total	10,885.80
Reporting Period P2 (M19-M36)	
Total	4,830.80
Reporting Period P3 (M37-M42)	
Total	2,401.60

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Total P1+P2+P3	18,118.20
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Summary of costs

	Period P1 (M1-M18) (€) [Excl. of Tax]	Period P2 (M19-M36) (€) [Excl. of Tax]	Period P3 (M37-M42) (€) [Excl. of Tax]
Personnel	18,923.00	8,015.00	9,778.00
Consumables	9,577.00	4,940.00	1,149.00
Travel	6,989.00	8,015.00	529.00
Durable Equipment	18,940.00	3,184.00	552.00
Audit Certificate	0.00	0.00	1,500.00
Indirect Costs	10,885.80	4,830.80	2,401.60
Total	65,314.80	28,984.80	15,909.60
Total P1+P2+P3	110,209.20		

Major deviations from cost budget and from person-month budget

None.

Partner 4 – Institut Pasteur du Cambodge (AC Cost Model)

Scientific Leader: Philippe BUCHY

Description of the work performed**Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008**

Before creating artificial aquatic biotopes, it was necessary to list the elements naturally existing in aquatic environment and to record physico-chemical characteristics of water during epidemics.

Unfortunately, only one outbreak in poultry occurred (and just at the beginning of the project).

In 2008, no outbreak in poultry was detected so far. Therefore, we decided to follow the water characteristics of one pond in the house of a patient who was contaminated by the H5N1 virus in 2007.

We used also this water and this mud to create artificial water settings in aquarium. Due to late delivery of the BSL3+ animal facilities, the project was postponed and the first experiments took place in July 2008.

We built 8 aquariums that could fit into a BSL2 cabinet place in the A3+ laboratory.

Water from used for the experiments was collected from the field (in a pond previously contaminated by H5N1).

Water was analysed for chemical parameters, pH, temperature, etc., and bacteria. Aquariums containing mud, plants, fish, shells, and snails were contaminated with H5N1 virus at a fix EID50 value. The temperature of the water was controlled by individual water-heaters and the temperatures used were in the range of the temperatures observed in the field. Specimens are now analysed by quantitative real-time PCR and by egg inoculation according a specific method using a cocktail of antibiotics and antifungi. Results of this first series of experiments are expected by October (3 passages on eggs are necessary to assess virus survival) and a second series of experiments will start just after.

Results of an investigation done prior to RIVERS project were recently published (Vong S et al., EID, July 2008). Samples collected in 2007 were analyzed by RT-PCR. Very low viral load of viruses were detected in few specimens. The last passage on eggs of the specimens is ongoing. Soil specimens will be later retested using adapted extraction column to avoid false positives (inhibitors of PCR in the soil). In 2008, the Epidemiology Unit in IPC finalized the analyses of the 2006 surveillance data in poultry in six provinces of Cambodia and of poultry mortality surveys in areas where H5N1 was identified either in humans or in poultry. A new epidemiological definition of H5N1-related mortality and signs and non-H5N1-related in chicken and duck flocks with high sensitivity and specificity were generated.

We compared poultry mortality characteristics and signs between laboratory confirmed H5N1 infected flocks with non H5N1 ones. We applied the proposed definitions to the 2006 surveillance data and performed a space time analysis to determine plausible clusters of villages affected by H5N1.

These results were subsequently sent to the CIRAD team led by Flavie GOUTARD, Montpellier, to be included in a model that helps determine spatial and environmental risk factors associated with circulation of H5N1 viruses. Environmental parameters such as the land cover or the temporal variations of flooding will be taken into account by the analysis of time series of MODIS images.

The IPC results are currently compiled in the form of the report. A manuscript to be submitted to a peer-reviewed journal is under preparation.

Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010

IPC was involved in Work Packages 1, 2, 6 and 11. The work performed is further described and detailed in the Periodic Activity Report.

Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010

The work performed is further described and detailed in the Periodic Activity Report.

Explanatory note on cost items and justification

– Personnel funded by the project:

LAST NAME, First name	Total Person-Months	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008		
Total P1	0	0.00

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Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010		
Total P2	0	0.00
Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010		
Total P3	0	0.00
Total P1+P2+P3 (M1-M42)	0	0.00

– Consumables:

Type of consumable	Date of invoice	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
Small non-durable equipment (aquariums, etc.)	-	1,152.75
Lab reagents	-	3,938.15
Total P1		5,090.90
Reporting Period P2 (M19-M36)		
Assy, Dual Block Lid Pair, ICYR	24-oct.-08	1,100.00
Mouse optical	19-nov.-08	7.05
Flash transcend V85 (2GB)	19-nov.-08	13.33
CD-RW maxell 1 box=10pcs	19-nov.-08	9.41
External HDD Trek Stor (120GB)	19-nov.-08	57.22
Service labtop Mr.Men Piseth S:22957	28-nov.-08	11.76
Disque dur	16-dec.-08	40.86
TOTAL small non-durable equipment		1,239.63
Aliment pour oiseaux	29-Aug-08	25.62
DNASE I Rnase free roche boehringer	11-Aug-08	100.00
Penicillin G Powder, cell culture T	7-Aug-08	214.74
X10 Boite blanc 136X136MM H 130MM	12-Aug-08	321.00
X10 separateur 4X4 Boite 136 65MM	12-Aug-08	136.50
X400 tube centri PP 50:L Vrqc St	12-Aug-08	122.40
Envoi CIP aerien Phnom Penh	12-Aug-08	420.50
Oiseaux et aliments	3-Sep-08	8.14
RNA PowerSoil total RNA Isolation		739.80
Frais transitaire IP:0534316	25-Aug-08	86.12
Frais transitaire IP:0534340	30-Aug-08	87.53
Analyse août 2008	05-sept.-08	28.37
Aliments pour oiseaux et poulet, 10kg	15-sept.-08	6.79
Frais transitaire Bioblo:333879	04-sept.-08	102.19
Streptomycin sulfate cell culture T	15-Oct-08	82.92
Penicillin G powder, cell Culture T	15-Oct-08	214.74

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Polymyxin B sulfate salt powder, cell culture	21-Oct-08	625.60
Gentamycin sulfate salt powder, cel	21-Oct-08	1,440.00
Frais transitaire IP:0536827	30-Oct-08	43.92
Frais d' envoi IP:0536629	31-Oct-08	391.79
Aliment pour oiseaux		11.63
Plastic centrifuge tube 15 ml Biostar	19-Dec-08	1,512.53
Un poulet	22-Dec-08	6.29
Un poulet pour P3	5-Jan-09	7.19
96 well polystyrene microplate U-bottom nonsterile	21-Jan-09	222.75
Reaction tube 1.5ml natural with cap	21-Jan-09	330.53
Serological pipette sterile 5 ml in 1/10ml with cotton	21-Jan-09	725.74
Aliment pour oiseaux	22-Jan-09	7.19
Oiseaux	22-Jan-09	10.78
Aliments pour oiseaux	29-Jan-09	14.37
Frais transitaire K.Hsien:001327	31-Jan-09	71.63
Barkels	5-Feb-09	19.51
Aliments pour volailles	5-Feb-09	7.80
Support dia 94mm 5 tubes 16mm	5-Feb-09	89.80
Electrode Ph Epoxy Gel 1M BNC	17-Feb-09	89.88
Pipetus Junior	17-Feb-09	133.60
X50 Enton filt analyt 100ML NC, 45µ	17-Feb-09	448.80
X5 bouchon caoutchouc 41MM TR13MM	17-Feb-09	24.24
Lunettes santa Cruz	17-Feb-09	27.03
Agitateur sans moteur 5L	17-Feb-09	176.64
X10 barreau slimline teflon 20X6MM	17-Feb-09	8.24
X10 barreau teflon 40X8MM	17-Feb-09	12.40
X5 barreau slimline teflon 60X8MM	17-Feb-09	9.84
Moteur L/S economique 20-600T/MIN	17-Feb-09	787.52
Tete Eclair HP LS Reglable T15-36	17-Feb-09	388.24
7,5M tube silicone platinum LS T36	17-Feb-09	156.80
Emballage & envoi CIP aerien Phnom Penh	17-Feb-09	507.50
Filter pipet tip C.L.P 10-200µL	20-Feb-09	1,072.87
Centrifuge tube 15ML with flat top rim seal caps, steril, bag	20-Feb-09	702.24
Polyethylene glycol 6000 technical	25-Feb-09	827.09

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Airfreight cost	25-Feb-09	469.72
Frais transitaire IP:0540225	25-Feb-09	79.17
Frais transitaire K.Hsien:001429	26-Feb-09	261.31
Frais transitaire Bioblo:443356	28-Feb-09	116.44
System 100TM CryoBox for 100 vials	6-Mar-09	1,186.34
Quantitech Probe RT-PCR kit	12-Mar-09	11,175.87
Glycine, reagentplus TM, >99% - F	12-Mar-09	15.58
PH/MV/Ionometre Ecoscan Ion6	13-Mar-09	292.56
Etagere PR Lampe UV Germicide	13-Mar-09	169.28
Lampe Germicide 254NM 15W	13-Mar-09	243.80
Envoi CIP aerien Phnom Penh	13-Mar-09	146.70
Frais transitaire GLC:0903014	19-Mar-09	219.63
2 canards, volailles	23-Mar-09	17.40
Frais transitaire Bioblo:460040	31-Mar-09	112.86
Cages pour volailles	20-Apr-09	428.32
Beef extract powder (DIFCO)	29-May-09	171.00
Beef extract powder (DIFCO)	29-May-09	171.00
Statif avec tige ø12x600 MM	3-Jun-09	96.50
Noirx de serrage 16 MM/Alliage Nat	3-Jun-09	17.90
Pince 3 Doigts Alu ø:0-70 MM	3-Jun-09	51.80
CIP Aerien Phnom Penh		90.00
Aliments volailles	12-Jun-09	23.12
1 poulet & 5 poroir pour œuf	17-Jun-09	7.80
Frais transitaire Bioblo:511392	20-Jun-09	107.36
Fish & cup for fish	29-Jun-09	21.81
1 poulet & 5 poroir pour œuf	1-Jul-09	8.63
Bidon 10 litres	1-Jul-09	9.02
Topo Ta Cloning kit for subcloning	22-Jul-09	2,218.04
Hydrochloric acid 5 Mol/L (Merck)	16-Jun-09	134.39
Sodium hydroxyde pellets pure (Merck)	16-Jun-09	44.56
Achat des poissons	30-Jul-09	12.03
Frais transitaire, GLC:0907033	31-Jul-09	81.36
Round Petri Plate PS na 3 Vents, H14.2,Ø90	20-Aug-09	91.95
Round Petri Plate PS na 3 Vents, H14.2.Ø55	20-Aug-09	127.32
Round Base Tube 5ML PS na H74.5, Ø12.8, Non Stérile	20-Aug-09	254.63

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PCR product sequencing	8-Sep-09	64.23
Plasmid Sequencing	14-Sep-09	56.05
Hepes Buffer Solution (1M)	10-Sep-09	17.52
Phosphate-Buffered Saline (PS) 7.2 (10X), liquid	10-Sep-09	161.15
Trypsin/EDTA (10X)	10-Sep-09	77.77
Sodium Bicarbonate Solution, 7.5% (w/v)	10-Sep-09	9.81
MEM Non-Essential Amino Acids Solution 10MM (10X), liquid	10-Sep-09	16.12
Fungizone® Antimycotic, liquid	10-Sep-09	21.02
Quantitech Probe RT-PCR kit	10-Sep-09	11,880.56
MicroAmp™ Optical 96-Well Reaction Plate with B	14-Sep-09	952.91
MicroAmp™ Optical Adhesive Film (Applied)	14-Sep-09	364.35
Aliments volailles	9-Oct-09	31.76
100 flacons TC + Bouch 2 positions	24-Sep-09	331.50
Sachet en PP 20x30CM, 40µM (1x100)	24-Sep-09	790.00
500 flacons TC + Bouch 2 positions US	8-Oct-09	313.10
200 Flacons TC + Bouch filtrant Cor US	8-Oct-09	151.40
Bromure ethidium flacon securite eu	13-Oct-09	167.50
Frais transitaire, Gene Sys:GS0033-09	25-Sep-09	52.59
Achat oiseaux, cage, liens auto-serrants	12-Oct-09	29.54
Grille métallique	16-Oct-09	19.12
L-Glutamine 200MM sterile filtered*Cell	30-Sep-09	26.35
Dulbecco#S Modified Eagle#S Medium-Hig	30-Sep-09	97.81
Mem Vitamins (100X) Solution Sterile*FIL	30-Sep-09	16.16
Dulbecco#S Modified Eagle#S Medium-Hig	30-Sep-09	146.72
Albumin, Bovine 35% Solution	30-Sep-09	238.30
Charges	30-Sep-09	48.68
Frais transitaire, Sigma:8515213320	9-Oct-09	48.15
X500 Cryotubes 1.8 ML Rond Interne	16-Oct-09	1,830.24
Frais d' envoi IP:0547484	22-Oct-09	234.96
Frais transitaire, IP:0548032	30-Oct-09	112.83
Frais transitaire, DKSH:IN0200900061459	30-Oct-09	104.99
Frais transitaire, GLC:0909018	19-Nov-09	64.07
Frais transitaire, GLC:0909018	25-Nov-09	227.28

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Séparateur pour 100 tubes Ø12.5mm	10-Dec-09	103.50
MPLC total nucléic acid isolat	22-Dec-09	4,163.64
Nucléic acid isolation 1 kit/32T	22-Dec-09	232.98
MPLC Reaction Tip (Large)	22-Dec-09	1,664.13
MPLC Reagent tub (Large)	22-Dec-09	133.13
MagNa Pure LC Medium Reagent Tub 2	22-Dec-09	299.54
MPLC Reagent tub Lip (Large)	22-Dec-09	119.82
MPLC tube Lid (Small, Medium)	22-Dec-09	256.28
PMLC Medium Reagent Tub 30	22-Dec-09	56.58
MPLC Processing cartridge	22-Dec-09	216.34
MPLC Tip Stand	22-Dec-09	236.31
MPLC Sample Cartridge	22-Dec-09	93.19
MPLC Tub Lid Seal	22-Dec-09	216.34
MPLC Cartridge Seal	22-Dec-09	53.25
MPLC Waste Bottle	22-Dec-09	76.55
Coq & poulet	30-Dec-09	7.99
Bidon 10 litres+water	6-Jan-10	23.95
TOTAL Lab reagents		58,942.57
Total P2		60,182.20
Reporting Period P3 (M37-M42)		
HDD Seagate 100GB + repair laptop	30-Jul-2010	110.00
TOTAL small non-durable equipment		110.00
Frais de transport matériel sure IPP:0549993	1-Feb-10	90.13
NEURAMINIDASE (SIALIDASE)	4-feb-10	1187.80
Bidon, eaux pure, poissons, repas	16-Feb-10	38.31
Receptor destroying enzyme	10-Mar-10	1098.00
Superscript III Platinum one step	11-Mar-10	6604.35
Frais transitaire IPP:0552729	23-Mar-10	87.44
Frais de transport sur facture IPP:552667, IPP:552729	26-Mar-10	186.72
QIAamp Viral RNA MINIKIT	2-Apr-10	1265.60
CRYOTUBE NUNC 1.8 ML FOND ROND	22-Apr-10	305.04
Superscript III Platinum one step	30-Apr-10	2641.74
Frais de transport matériel sure IPP:553520	12-May-10	206.38
Plasmid Sequencing	13-May-10	1043.93
MICROCENTRIGEUSE UNIFUGE ECLAIR	21-May-10	528.82
MICROPIPETTE 8 CANAUX Nichipet	21-May-10	944.00
MICROPIPETTE 8 CANAUX Nichipet	21-May-10	976.00

RIVERS

FLACON ROND 1L GRANUE DURAN	21-May-10	226.00
FLACON ROND GRANUE 500ML DURAN	21-May-10	156.60
FLACON ROND GRANUE 250ML DURAN	21-May-10	129.02
FLACON ROND GRANUE 100ML DURAN	21-May-10	58.13
Emballage	21-May-10	85.00
CIP Aerien Phnom Penh	21-May-10	302.00
Frais transitaire IPP:0553996, 0554470	26-May-10	96.65
MPLC PROCESSING CARTRIDGES(ROCHE)	28-May-10	732.25
MPLC TIP STAND (ROCHE)	28-May-10	799.85
MPLC SAMPLE CATRIDGES (ROCHE)	28-May-10	420.58
MPLC WASTE BOTTLE (ROCHE)	28-May-10	172.74
MPLC TUB LID SEAL (ROCHE)	28-May-10	244.08
MPLC TUBE LID (SMALL, MEDIUM)	28-May-10	578.29
MPLC CARTRIDGE SEAL (ROCHE)	28-May-10	60.08
MagNA Pure LC MEDIUM REAGENT TUBE 20(ROCHE)	28-May-10	675.93
MPLC REATION TIP LARGE (ROCHE)	28-May-10	3379.64
Lame	01-Jun-10	60.94
Syring 1ml	01-Jun-10	104.82
Syring 5ml	01-Jun-10	5.69
Needle 23c	01-Jun-10	31.69
Needle 18c	01-Jun-10	1.58
FLAT CAP PCR TUBE0.2ML	04-Jun-10	390.02
CENTIFUGE TUBE 50ML WITH FLAT TOPRIM DEAL CAPS	04-Jun-10	107.26
CENTIFUGE TUBE 15ML WITH FLAT TOPRIM DEAL CAPS	04-Jun-10	146.26
FILTER PIPET TIP 1-10UL	04-Jun-10	446.90
FILTER PIPET TIP 10-- 200UL	04-Jun-10	446.90
FILTER PIPET TIP 100- 1000UL	04-Jun-10	446.90
Frais de port	04-Jun-10	406.28
Frais transport perissable, IPP:554470,553996	07-Jun-10	97.27
Frais transitaire, Fisher:09931093/750981	11-Jun-10	247.75
COTTON SWAB PS-STICK WITH VISCOSE HEAD	12-Jun-10	1044.13

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MicroAmp OPTICAL 96-WELL REACTION PLATE WITH B	15-Jun-10	966.93
MicroAmp OPTICAL ADHESIVE FILM	15-Jun-10	422.53
Frais camcontrol, Gen sys:GS0021-10	17-Jun-10	73.13
BOÎTE DE CONGELATION BLANC	21-Jun-10	1062.00
SEPARATEUR POUR 100 TUBE 12.5MM	21-Jun-10	414.00
Dulbecco's Phosphate Buffered Saline	21-Jun-10	56.70
Frais transitaire, G.L.C:1006008	21-Jun-10	273.13
QAlprep SPIN MINIPREP KIT	22-Jun-10	685.80
Frais transitaire, Khsien:002982	23-Jun-10	270.99
TOPO TA Cloning Kit with one shot MAX	24-Jun-10	542.00
ECOR I 10U/ul	24-Jun-10	8.50
SuperScript III Platinum One-step Quantitative	24-Jun-10	18492.18
CRYOTUBER NUNC 1.8ML FOND ROND	29-Jun-10	1677.72
BANDELETTE INDICATRICE DE PH 1-14	29-Jun-10	72.00
Frais transitaire, IPP:0556152	30-Jun-10	282.60
Frais de transport materiel IPP:556096	23-Jul-10	348.27
Frais de transport prod.dangereux IPP:556152	23-Jul-10	311.55
Frais de transport perrissable IPP:556319	23-Jul-10	525.42
Frais de transport materiel IPP:556430	23-Jul-10	222.94
REACTION TUBE 1.5ML NATURAL WITH CAP	23-Jul-10	149.95
SEROLOGICAL PIPETTE STERILE 25ML	23-Jul-10	123.05
SEROLOGICAL PIPETTE STERILE 10ML	23-Jul-10	87.20
SEROLOGICAL PIPETTE STERILE 5ML	23-Jul-10	82.31
SEROLOGICAL PIPETTE STERILE 2ML	23-Jul-10	342.27
96 WELL POLYTYRENE MICROPLATE	23-Jul-10	151.58
Airfreight fee	23-Jul-10	224.11
Frais transitaire, Fisher:0556319	24-Jul-10	294.84
Frais transitaire, Fisher:0556430	24-Jul-10	122.07
Frais transitaire, Khsien:003122	24-Jul-10	257.65
Frais transitaire, Fisher:0556096	24-Jul-10	125.89

RIVERS

Complément frais transport IPP:0554470	29-Jul-10	102.32
Achat poulet	30-Jul-10	3.55
Complément de prix sur DMEM, IPP:533026	30-Jul-10	23.00
Frais de gestion d'achat IPP:9.57%	30-Jul-10	2.20
Avoir frais d'envoier IPP:0536629	30-Jul-10	-195.90
Avoir frais de gestion d'achat IPP:9.57%	30-Jul-10	-18.75
Avoir achat poulet	30-Jul-10	-3.59
Transport cage à NAVRI	30-Jul-10	7.51
Avoir taux de cahnge 2009	30-Jul-10	-3.08
Avoir taux de change 2008	30-Jul-10	-0.27
Boît conglation carton plastifié	30-Jul-10	531.00
Frais de gestion d'achat IPP:9.57%	30-Jul-10	50.82
Frais de gestion d'acht IPP:9.57%	30-Jul-10	4464.12
TOTAL Lab reagents		62,937.71
Total P3		63,047.71
Total P1+P2+P3 (M1-M42)		128,320.81

- Travel:

Type of travel	Date	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
RIVERS Kick-Off Meeting, Paris, France	17/02/2007	1,778.60
Field trips	2007-July 2008	187.30
Total P1		1,965.90
Reporting Period P2 (M19-M36)		
Paris Meeting (P. Buchy)	30/10/2009	363.28
TOTAL International Meetings		363.28
Per-diem Prak Bali (OM:678/2008)	16-Dec.-08	15.71
Per-diem Y Bunthin (OM:678/2008)	16- Dec.-08	7.86
Frais mission Ramena Guierrez	15-Jan.-09	21.56
Per-diem Prak Bali (OM:200/2009)	10-Apr.-09	3.76
Data processing and transfer fee	23- Apr.-09	78.90
Per-diem & frais passage Prak Bali (OM:233/2009)	27- Apr.-09	6.95
Per-diem H.S.Viseth (OM:200/2009)	28- Apr.-09	3.76
Per-diem Prak Bali (OM:254/2009). 05:Mai:09	18-May-09	3.77
Per-diem & frais passage Prak Bali (OM:268/2009).	18-May-09	10.73

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18:Mai:09		
Frais mission Coldefy Chloé. IP Lille	5-June-09	271.17
Per-diem Prak Bali. Kg Cham (OM:300/2009)	11-June -09	7.09
Per-diem H.S.Viseth à Prey Veng (OM:268/2009)	11-June -09	7.09
Per-diem & frais passage Prak Bali (OM:339/2009)	26-June -09	10.11
Per-diemPrak Bali. Kg Cham (OM:366/2009)	10-Jul.-09	7.08
Per-diem Prak Bali & frais passage (OM:387/2009)	20-Jul.-09	11.85
Repas de service	22-Jul.-09	40.07
Per-diem Prak Bali (OM:416/2009)	5-Aug-09	7.07
TOTAL Field Trips		514.53
Total P2		877.81
Reporting Period P3 (M37-M42)		
Trip to Bangkok (P. Buchy- Participation in Meeting)	23-Apr-10	225.11
TOTAL International Meetings		225.11
Car rent, Takeo(OM:068/2010)	3-Feb-10	53.70
Per-diem Y Bunthin+Ros Sopheaktra (OM:068/2010)	10-Feb-10	14.32
Per-diem Horm Srey Viseth, OM:068/2010	11-Feb-10	7.16
Tiket de bus pour workshop	30-Jul-10	22.97
TOTAL Field Trips		98.15
Total P3		323.26
Total P1+P2+P3 (M1-M42)		3,166.97

– Durable Equipment:

Type of Equipment (Description)	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)	
Total P1	0.00
Reporting Period P2 (M19-M36)	
Total P2	0.00
Reporting Period P3 (M37-M42)	
Total P3	0.00
Total P1+P2+P3	0.00

– Audit certificate (Subcontracting/Management Activities):

Name of Auditor	Amount (€) [Excl. of Tax]
1 audit certificate covering Reporting Periods 1, 2 and 3	
Ernst & Young (Cambodia) Ltd	2,597.97

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Total	2,597.97
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An audit was carried out by Ernst & Young (Cambodia) Ltd., covering reporting periods from P1 to the last reporting period of the project (01/02/2007-31/07/2010). However, its cost is not eligible as it was conducted past the 45-day after the end of the final period deadline.

– Indirect costs (20% flat rate):

Indirect Costs (€) [Excl. of Tax]	
Reporting Period P1 (M1-M18)	
Total	1,411.36
Reporting Period P2 (M19-M36)	
Total	12,212.00
Reporting Period P3 (M37-M42)	
Total	12,674.19
Total P1+P2+P3	26,297.55

Summary of costs

	Period P1 (M1-M18) (€) [Excl. of Tax]	Period P2 (M19-M36) (€) [Excl. of Tax]	Period P3 (M37-M42) (€) [Excl. of Tax]
Personnel	0.00	0.00	0.00
Consumables	5,090.90	60,182.20	63,047.71
Travel	1,965.90	877.81	323.26
Durable Equipment	0.00	0.00	0.00
Audit Certificate	0.00	0.00	2,597.97 (not eligible for reimbursement)
Indirect Costs	1,411.36	12,212.00	12,674.19
Total	8,468.16	73,272.01	76,045.16
Total P1+P2+P3	157,785.33		

Major deviations from cost budget and from person-month budget

None.

Partner 5 – Chinese Academy of Sciences – Pasteur Institute of Shanghai (AC Cost Model)**Scientific Leader: Vincent Deubel/Xiaoya CHEN****Description of the work performed****Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008**Work Package 7: Impact of air and surface treatments on virus survival

The objective of our study is to assess the stability of influenza virus particles subjected to different physical and chemical conditions in a laboratory environment. Our first postulate was that, beside UV, inactivation of enveloped particles would first operate on the virus shell and not on the genome. Also, if any inactivation process would affect the genome integrity (RNA and all proteins associated with it), it would be extremely difficult to differentiate this impact from that directed to the viral envelope. Our second postulate was that inactivation of virus would be graduated and dependant on time of exposure to the inactivating agent.

Therefore, we have developed tools which would reproduce viral envelopes and which would allow easy quantification of virus replication. In order to avoid the use of infectious particles, we have engineered pseudoparticles containing H1 and N1 envelope proteins and a lentivirus defective RNA containing the reporter gene of luciferase to quantify the efficiency of pseudovirus penetration (transduction) and replication.

In parallel, we have prepared stocks of infectious H1N1 virus to compare the effects of inactivation on both enveloped particles. To quantify the efficiency of virus infection, we have developed real-time RT-PCR systems for M1, H1 and H5 genes.

Finally, we have established the protocols and bought the equipments to treat virus particles with various physical and chemical agents.

There has been some delay in the development of the study for several reasons, difficulties to find a suitable technician in virology, time to receive the ordered reagents and equipment, closure of the biosafety laboratory necessary for virus cultivation and virus stock production, setting up the pseudoparticle and real time systems. However, the tests are now being carried out and time will be caught up.

Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010

IPS was involved in Work Packages 2, 5, 6, 7 and 11. The work performed is described and detailed in the Periodic Activity Report.

Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010

The work performed is further described and detailed in the Periodic Activity Report.

Explanatory note on cost items and justification

– Personnel funded by the project:

LAST NAME, First name	Total Person-Months	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008		
Vincent DEUBEL	1	9,630.00
Paul ZHOU	1	3,210.00
Cheguo CAI	2	749.00
Wei WANG	4	3,103.00
Yimei ZHENG	1	428.00
Total P1	9	17,120.00
Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010		
VINCENT DEUBEL	2	18,987.34
PAUL ZHOU	1	3,164.56
BING SUN	0.5	1,186.71
TETSUYA TOYODA	1	1,758.09

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PENG LU	1	351.62
CHEGUO CAI	6	2,215.20
WEI WANG	2	1,687.76
PEIJUN REN	2	949.37
CHANGGUI DONG	18	7,594.92
Total P2	33.5	37,895.57
Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010		
VINCENT DEUBEL	0.5	4,746.84
PAUL ZHOU	0.5	1,582.28
CHEGUO TSAI	2	738.40
WEI WANG	1	843.88
PEIJUN REN	0.5	237.34
CHANGGUI DONG	6	2,531.64
Total P3	10.5	10,680.38
Total P1+P2+P3 (M1-M42)	-	65,695.95

- Consumables:

Type of consumable	Date of invoice	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
Reagents	13.06.2008	5,350.00
Other consumables	13.06.2008	2,011.60
Total P1		7,361.60
Reporting Period P2 (M19-M36)		
SCIENTIFIC CONSUMABLES	28JAN2010	22,550.33
OTHER CONSUMABLES	28JAN2010	118.46
Total P2		22,668.79
Reporting Period P3 (M37-M42)		
Scientific consumables	16/07/2010	16,823.45
Total P3		16,823.45
Total P1+P2+P3 (M1-M42)		46,853.84

- Travel:

Type of travel	Date	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
Total P1		0.00
Reporting Period P2 (M19-M36)		
V. DEUBEL TO BEIJING	MAY 2009	272.78
P. LU TO BEIJING	MAY 2009	369.73
Total P2		642.51
Reporting Period P3 (M37-M42)		
Total P3		0.00
Total P1+P2+P3 (M1-M42)		642.51

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– Durable Equipment:

Type of Equipment (Description)	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)	
Total P1	0.00
Reporting Period P2 (M19-M36)	
DRYING OVEN	238.40
PRINTER	262.66
HOMOGENIZER	8,753.59
Total P2	9,254.65
Reporting Period P3 (M37-M42)	
Total P3	0.00
Total P1+P2+P3	0.00

– Audit certificate (Subcontracting/Management Activities):

Name of Auditor	Amount (€) [Excl. of Tax]
1 audit certificate covering Reporting Periods 1, 2 and 3	
	1000.00
Total	1000.00

An audit was carried out by Shanghai Dong-Hua CPAs Firm, covering reporting periods from P1 to the last reporting period of the project (01/02/2007-31/07/2010). However, its cost is not eligible as it was conducted past the 45-day after the end of the final period deadline.

– Indirect costs (20% flat rate):

Indirect Costs (€) [Excl. of Tax]	
Reporting Period P1 (M1-M18)	
Total	4,896.32
Reporting Period P2 (M19-M36)	
Total	14,092.30
Reporting Period P3 (M37-M42)	
Total	5,500.77
Total P1+P2+P3	24,489.39

Summary of costs

	Period P1 (M1-M18) (€) [Excl. of Tax]	Period P2 (M19-M36) (€) [Excl. of Tax]	Period P3 (M37-M42) (€) [Excl. of Tax]
Personnel	17,120.00	37,895.57	10,680.38
Consumables	7,361.60	22,668.79	16,823.45
Travel	0.00	642.51	0.00
Durable Equipment	0.00	9,254.65	0.00
Audit Certificate	0.00	0.00	1000.00 (not eligible for

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			reimbursement)
Indirect Costs	4,896.32	14,092.30	5,500.77
Total	29,377.92	84,553.82	33,004.60
Total P1+P2+P3	146,936.34		

Major deviations from cost budget and from person-month budget
None.

Description of the work performed

Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008

The main activities carried out during the first 18-month period were related to WP2, 6 and 9. Two directions were followed (1) improvement and standardisation of the molecular detection methods for avian influenza virus and (2) contribution to the development of models for virus survival in its natural environments.

Validation and standardisation of Avian influenza virus molecular detection

The key issue of the project was the development of new methods for virus concentration detection and quantification of AIV (WP1). However, within WP2 and on field samples, partner 6 has assessed the performances of four quantitative real-time PCR assays for AIV detection (type A, H5, H7, N1). Several thousands of swab samples were tested for this molecular detection of AIV and virus isolation was also achieved for all PCR-positive swabs in order to determine the PCR sensitivity. In addition, partner 6 was included in a European inter-laboratory assay to validate the tests in use. From the results, we conclude that the methods used in CIRAD are sensitive enough and reliable. A contact was made with partner 7 concerning the N1 PCR. Indeed, primers are amplifying avian and Human influenza viruses but the probe designed for AIV did not match with Human viruses. Another probe had to be designed. During this period, partner 6 has also prepared a set of calibrated, inactivated and lyophilised AIV isolates including H5 and H7 strains that will be proposed to the consortium for further validation of detection methods.

Modelling of virus survival and concentration in natural water reservoirs and soiled surfaces

Within the framework of this project, the following activities were undertaken in Montpellier and in Cambodia in coordination between the Pasteur Institute of Phnom Penh and the UR AGIRs of CIRAD:

- Field mission in October 2007 in Cambodia with one representative of the of the partner 8 ICM, in order to give a progress report on the availability of epidemiologic data, the activities to be set up, the role of each research team, in order to lead to a work schedule for 2008.
- Between March and July 2008: research study in Montpellier, done by a MSc student Lise Chamailié, in order to evaluate the contribution of remote sensing in the characterisation of water properties and to identify environmental parameters, from MODIS images, on a province scale. Data from the surveillance were analysed in order to study the spatial distribution of AI outbreaks, and, in the case of a spatial heterogeneity, to identify environmental risk factors being able to explain this heterogeneity. (Article in preparation: Remote sensing and avian influenza: a review of image processing methods for extracting key parameters for avian influenza H5N1 virus survival in water. L. Chamaille, D. LoSeen, F. Goutard, N. Baghdadi, A. Tran).
- Between January and July 2008: collaboration with IP Phnom Penh in the supervision of a study done by a MSc student Anne Conan in Cambodia in order to describe the mortality of poultry in village sectors and to specify a case-definition of H5N1 in Cambodia. Then, to define and carry out statistical analysis of surveillance data in the framework of "spatio-temporal analysis of disease emergence and virus survival in rural areas of Cambodia" of the RIVERS project.
- March 2008: preparation of field measurement protocol. Physical parameters of water tested within the framework of the experimental studies should be measured in the field in various villages, this in order to evaluate whether the environmental conditions in Cambodia allow or not the survival of the virus in water. For that, series of measurements, four times in a year (maximum rain season, dry season, and intermediate moments), have to be considered.

Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010

The main activities carried out during the second 18-months period were related to WP2, 6 and 9. Two directions were followed (1) improvement and standardisation of the molecular detection methods for avian influenza virus and (2) contribution to the development of models for virus survival in its natural environments.

Validation and standardisation of Avian influenza virus molecular detection

Within WP2 and WP6, CIRAD has adapted and validated four quantitative real-time PCR assays for AIV detection (type A, H5, H7, N1). The performance of the PCR assays was assessed on several thousands of swab samples collected on wild and domestic birds in Africa and also on bird faeces collected in the field. In addition, these assays were used in interlaboratory proficiency tests (2008 and 2009) organised by the European reference laboratory for avian influenza. From the results, it was concluded that the methods used

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at CIRAD were sensitive enough and reliable. During this period, CIRAD has also prepared a new set of calibrated, inactivated and lyophilised AIV isolates including H5 and H7 strains for further validation of detection methods. This panel was sent to partner 7 (IPL) and contacts were made for the use of PCR methods for AIV detection in biological material concentrated from water. A persistent problem with the sensitivity of N1 detection was encountered at IPL whereas the M and H5 detections were satisfactory. New primers and probe for the detection of N1 were provided by CIRAD to IPL. IPL provided CIRAD with a protocol for the collection and concentration of water collected in the field. However, it was not possible to apply this protocol during the campaign of sample collection in Mali, organised by CIRAD in 2009. Indeed, the sites where the samples had to be collected are too distant from the laboratory facilities to allow good preservation of huge volumes of water samples. In addition, the prevalence of avian influenza in Malian birds is very low (0.1 – 0.2% for the 2008 and 2009 campaigns respectively) and H5N1 is absent, therefore, the chance to detect influenza virus in the water appears to be very low.

Modelling of virus survival and concentration in natural water reservoirs and soiled surfaces

Within the framework of this project, the following activities were undertaken in Montpellier and in Cambodia in coordination between the Pasteur Institute of Phnom Penh and the UR AGIRs of CIRAD:

- Publication of an article in the International Journal of Applied Earth Observation and Geoinformation, Tran, A., et al., Remote sensing and avian influenza: A review of image processing methods for extracting key variables affecting avian influenza virus survival in water from Earth Observation satellites. Int. J. Appl. Earth Observ. Geoinform. (2009), doi:10.1016/j.jag.2009.09.014 Recent studies have highlighted the potential role of water in the transmission of avian influenza (AI) viruses and the existence of often interacting variables that determine the survival rate of these viruses in water; the two main variables are temperature and salinity. Remote sensing has been used to map and monitor water bodies for several decades. In this paper, we review satellite image analysis methods used for water detection and characterization, focusing on the main variables that influence AI virus survival in water. Optical and radar imagery are useful for detecting water bodies at different spatial and temporal scales. Methods to monitor the temperature of large water surfaces are also available. Current methods for estimating other relevant water variables such as salinity, pH, turbidity and water depth are not presently considered to be effective.
- The work of Lise Chamaille in 2008 allowed us to identify environmental indicators in connection with floods and landuse, from MODIS data. These indicators are linked to epidemiological data in order to identify risk factors for the occurrence of avian influenza cases. A model to detect water surfaces and periods of floods has been created.
- Field data, in Cambodia in several spots known for previous H5N1 outbreaks, have been collected between March and August 2009 (before and at the end of rainy season), in order to validate the model.
- June 2009: mission of Dr Duboz (modeler) in Cambodia in order to work on the H5N1 data available in IPC.
- October 2009: starts of the analysis of correlation between environmental conditions linked to water and the number of H5N1 cases in Cambodia. This analysis should be finished end June 2010.

Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010

The main activities carried out during the last 6 months of the project were related to WP9. Two directions were followed (1) improvement and standardisation of the molecular detection methods for avian influenza virus and (2) contribution to the development of models for virus survival in its natural environments.

Validation and standardisation of Avian influenza virus molecular detection

Within WP2 and WP6 in the last period of the project, CIRAD has continued to probe its four quantitative real-time PCR assays for AIV detection (type A, H5, H7, N1). The performance of the PCR assays was assessed on 5787 of swab samples collected on wild and domestic birds in Africa and also on bird faeces collected in the field. The prevalence of avian influenza in Mali, Mauritania, etc... was very low (0.1 – 0.2% for the 2010 campaign respectively) and H5N1 was absent, therefore, the chance to detect influenza virus in the water appears to be null.

Modelling of virus survival and concentration in natural water reservoirs and soiled surfaces

Within the framework of this project, the following activities were undertaken in Montpellier in coordination between the Pasteur Institute of Phnom Penh and the UR AGIRs of CIRAD:

- From March to August 2010, the analysis of correlation between environmental conditions linked to water and the number of H5N1 cases in Cambodia, has been undertaken by Luca Leger (Biostatistic MSc student). For that purpose, we used data on the infection status of 4275 villages in 2006 from six provinces of Cambodia and data on flooding duration produced by the model built by Lise Chamaille in 2008. We also

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used information about human density, road network and land use. By characterizing the point process underlying the spatial distribution of infected and uninfected villages and using a spatial smoothing technique we first mapped the spatial variation of risk and then studied the clustering of infected villages with a modified K-function and a spatial scan statistic. Finally, an autologistic model was used to study the influence of risk factors while taking into account the spatial autocorrelation of villages' infection status. The results obtained show a strong spatial heterogeneity in the risk of village infection and a clustering of the infected villages with a maximum clustering distance of 32 km. This clustering reflects the local spread of the virus. The results of the autologistic model show an increase of infection risk with increasing flooding duration and percentage of land covered by irrigated croplands followed by a decrease when the value of these variables reached a certain threshold. These results show that flooded areas play an important role in the persistence of the virus in Cambodia.

- Preparation of scientific publications:

1. Use of logistic model in the study of spatial autocorrelation of H5N1 infected villages in Cambodia. L. Leger, A. Tran, F. Goutard, A. Conan, L. Suwath, V. Grosbois.

2. The space-time clustering of highly pathogenic avian influenza (HPAI) H5N1 outbreaks in Cambodia. F. Goutard, A. Conan, L. Leger, M. Teurlai, S. Vong, A. Tran.

Explanatory note on cost items and justification

- Personnel funded by the project:

LAST NAME, First name	Total Person-Months	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008		
D. MARTINEZ	0.9	7,797.18
E. ALBINA	1.0	6,348.30
S. HAMMOUMI	2.9	11,293.61
L. CHAMAILLE	5.0	1,990.65
F. GOUTARD	4.0	19,766.06
P. GIL	5.5	19,532.31
C.T. HO	0.6	3,791.20
Total P1	19.9	70,519.32
Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010		
F. GOUTARD	3.8	11,935.60
E. ALBINA	0.62	4,573.63
P. GIL	6.35	18,492.32
D. MARTINEZ	0.7	3,147.68
C-T. HO	0.92	4,846.03
Total P2	12.39	42,995.26
Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010		
F Goutard	0.80	6,272.39
L Léger	5.00	2,085.45
E Albina	0.15	1,513.05
P Gil	0.58	2,711.24
D Martinez	0.00	0.00
C-T. Ho	0.23	1,821.96
Total P3		14,404.09
Total P1+P2+P3 (M1-M42)	-	127,918.67

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– Consumables:

Type of consumable	Date of invoice	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
Transport of samples	2008	503.00
Reagents for molecular biology	2008	4,582.93
Sequencing	2008	710.60
Report printing and shipment	2008	134.03
Total P1		5,930.56
Reporting Period P2 (M19-M36)		
Transport of samples	30/11/2008 & 09/06/2009	45.80
Reagents for molecular biology	From 14/08/2008 to 02/12/2009	11,085.96
Consumable for Level 3 biocontainment laboratory	24/11/2008	102.00
Report printing and shipment	09/03/2009	233.00
Total P2		11,466.76
Reporting Period P3 (M37-M42)		
Reagents for molecular biology	From 05/03/2010 to 01/08/2010	6,962.45
Consumables for Level 3 biocontainment laboratory	From 28/06/2010 to 27/09/2010	2,383.57
Maps, software and consumables for risk analysis	26/02/2010 and 31/08/2010	5,490.90
Total P3		14,836.92
Total P1+P2+P3 (M1-M42)		32,234.24

– Travel:

Type of travel	Date	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
F. GOUTARD	2007/2008	6,606.50
Total P1		6,606.50
Reporting Period P2 (M19-M36)		
F. GOUTARD	31/12/2009	4,079.66
Total P2		4,079.66
Reporting Period P3 (M37-M42)		
-	-	0.00
Total P3		0.00
Total P1+P2+P3 (M1-M42)		10,686.16

– Durable Equipment:

Type of Equipment (Description)	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)	
Total P1	0.00
Reporting Period P2 (M19-M36)	
Total P2	0.00

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Reporting Period P3 (M37-M42)	
Total P3	0.00
Total P1+P2+P3	0.00

– Audit certificate (Subcontracting/Management Activities):

Name of Auditor	Amount (€) [Excl. of Tax]
1 audit certificate covering Reporting Periods 1, 2 and 3	
KPMG	1,682.00
Total	1,682.00

An audit was carried out by KPMG, covering reporting periods from P1 to the last reporting period of the project (01/02/2007-31/07/2010). However, its cost is not eligible as it was conducted past the 45-day after the end of the final period deadline.

– Indirect costs (20% flat rate):

Indirect Costs (€) [Excl. of Tax]	
Reporting Period P1 (M1-M18)	
Total	16,611.28
Reporting Period P2 (M19-M36)	
Total	11,708.34
Reporting Period P3 (M37-M42)	
Total	5,848.20
Total P1+P2+P3	34,167.82

Summary of costs

	Period P1 (M1-M18) (€) [Excl. of Tax]	Period P2 (M19-M36) (€) [Excl. of Tax]	Period P3 (M37-M42) (€) [Excl. of Tax]
Personnel	70,519.32	42,995.26	14,404.09
Consumables	5,930.56	11,466.76	14,836.92
Travel	6,606.50	4,079.66	0.00
Durable Equipment	0.00	0.00	0.00
Audit Certificate	0.00	0.00	1,682.00 (not eligible for reimbursement)
Indirect Costs	16,611.28	11,708.34	5,848.20
Adjustments to previous periods			-2,104.40
Total	99,667.66	70,250.02	34,666.80
Total P1+P2+P3	204,584.48		

N.B: The cost of the audit certificate is included in the total cost of Period 3 to reflect the total amount indicated in the periodic Form C. This cost is however NOT eligible for reimbursement by the EC.

Major deviations from cost budget and from person-month budget

The adjustments made in P3 concerned the decrease in P1 salaries or miscellaneous for:

- Dr. GOUTARD: €-428.33, corresponding to errors in VAT, change in currency and in Dr. Goutard's salary of €19,417.20 instead of €19,766.06,
- Dr. ALBINA: €-435.36, corresponding to total salaries of €5,985.54 instead of €6,348.30 and 0.9 PM instead of 1.0 PM

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- and Mrs. HO: €-1,240.76, corresponding to total salaries of €2,757.24 instead of €3,791.20 and 0.5 PM instead of 0.6 PM.

All these adjusted amounts included 20% of overheads.

Description of the work performed

Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008

Work Package 1: “Concentration, identification and quantification of avian influenza viruses from waters, muds and aquatic animals”

Task 1: Molecular detections of H5 and M genes by real-time RT-PCR have been optimised on Influenza A virus H5N1. Characterisation of the M and H5 genes detections and quantification thresholds, and repeatability/reproducibility of the real-time RT-PCR were evaluated. Three commercial RNA purification kits has been evaluated and applied on Purification of viral RNA from infectious Influenza A virus H5N1. These methods were applied to and validated on purified viral RNA from infectious Influenza A virus H5N1 and on concentrated and extracted viruses from clean or polluted waters and from solid samples, such as mud.

Task 2: A viral concentration procedure from surface waters has been developed on *Influenza A virus type H1N1*. Viral concentration method from water, based on adsorption/elution on glass wool, followed by an elution step with a beef extract solution at alkaline pH, as described in the French national standard method (XP T90-451), and viral adsorption/elution on Argonide’s electropositive filter, have been evaluated in combination with a second concentration step with poly-ethylene glycol.

Task 3: Concentration and quantification methods previously developed for *Influenza A virus type H1N1* and H5N1, respectively, have been validated on artificially contaminated surface waters (clean or dirty waters) with *Influenza A virus type H5N1*.

Task 4: Extraction procedures from solid samples (mud,biota), based on virus elution or by direct extraction method, have been evaluated on *Influenza A virus type H1N1*. Concentration and quantification methods, previously developed for *Influenza A virus type H1N1* and H5N1, respectively, have been validated on artificially contaminated mud with *Influenza A virus type H5N1*.

Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010

Work Package 1: “Concentration, identification and quantification of avian influenza viruses from waters, muds and aquatic animals”

Task 1: Molecular detections of N1 gene by real-time RT-PCR has been optimised on Influenza A virus H5N1. Characterisation of this detection and quantification threshold and repeatability/reproducibility of the real-time RT-PCR were evaluated. The improved one-step real-time RT-PCR assay provides a rapid, specific and sensitive method to detect M, H5 and N1 genes.

A procedure was written and diffused to RIVERS partners (P001RIVERS - RT-PCR detection of avian Influenza A viruses H5N1).

Task 2: A viral concentration procedure from surface waters has been developed on Influenza A virus type H1N1. Viral concentration method from water based on adsorption/elution on glass wool followed by an elution step with a beef extract solution at alkaline pH as described in the French national standard method (XP T90-451) and viral adsorption/elution on Argonide’s electropositive filter, have been evaluated in combination with a second concentration step with poly-ethylene glycol.

Task 3: Concentration and quantification methods previously developed for Influenza A virus type H1N1 and H5N1 respectively, have been validated on 10 and 50-liters volumes of artificially contaminated surface waters with Influenza A virus type H5N1.

A procedure was written and diffused to RIVERS partners (P002RIVERS - Procedure for concentration of avian Influenza viruses from water). A training course was organized in May 2009 in IP Lille for a student from IP Cambodia. Experiments were performed in Cambodia on rain water and lake waters in order to validate the method on another Influenza A H5N1 strain and on several water types. Moreover the procedure for concentration of avian Influenza viruses from water was validated on environmental waters sampled in 2009 from two places which were involved in previous influenza outbreaks in Cambodia and in France. A publication (in “Applied and Environmental Microbiology”) is in progress.

Task 4: Extraction procedures from solid samples (mud,biota) based on a virus elution method, has been developed for Influenza A virus type H5N1. Concentration and quantification methods have been validated on artificially contaminated mud with H5N1 virus.

A procedure was written and diffused to RIVERS partners (P003RIVERS - Procedure for concentration of avian Influenza viruses from mud). Experiments would be performed on natural contaminated muds in IP Cambodia to validate the detection method.

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Work Package 8: "Evaluation of the impact of selected parameters involved in food processing"

Task 1 et Task 2: This task consists to evaluate the impact of main parameters involved in cooking of poultry meats namely pH salt concentration and aW. The experimental domain would be defined according to the chemical characteristics of poultry meat. Poultry meats (thigh and breast) were characterised by pH ranges from 7 for chicken meat or 6.3 for duck meat (just after slaughtering) to approximately 5.5 (24h post-mortem). Based on available data salt concentration added for taste before meat cooking represents about 0.2 to 0.4% (w/w) and were explored.

Evaluation of parameters on survival/inactivation was conducted in meat rather than in liquid model medium. Indeed, thermoresistance studies performed with enteric viruses have shown several factors as fat and protein, could increase heat stability of virus in food.

The evaluation of individual effect of salt content and temperature and their interactions on survival/inactivation were studied in meat exclusively at natural post-mortem pH of 5.5. Indeed duck meat with added salt 4% could be adjusted with NaHCO₃ to pH 6.5 but significant changes were observed in consistence of meat, which became more elastic and gelatinous. These structural modifications have been shown to change viral thermoresistance.

Studies on heat inactivation of H5N1 virus were performed in duck meat at pH 5.5 and supplemented with salt amounts ranging from 0 to 4% (w/w). Viral inactivation curves were constructed on viral residual titres measured during the ramp-up period of the heating from 26°C up to the target temperature of 70°C.

The thermal inactivation procedure was based on previously described microassay for measuring thermal inactivation of H5N1 in naturally poultry meat.

Task 3: The development of predictive model is in progress. The experimental data obtained for all survival kinetics will be processed using the statistical software S-PLUS 2000. A modelling approach will be implemented, using available models to describe viral inactivation kinetics.

Task 4: The procedure for extraction and detection of AIV in poultry meat was based on previously described methods for Influenza viruses. Recovery of two Influenza strains H5N1 and H1N1 was validated. This suitable method was used in quantitative studies of the impact of food processing conditions on AIV.

Task 5: Model predictions will be then confronted to experimental results obtained on poultry products with different salt concentration values. Heat treatments range from 26 to 70°C of H5N1 and H1N1 in poultry products (duck and chicken) supplemented with salt concentrations range from 0 to 4%. will be performed.

Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010

Work Package 1: "Concentration, identification and quantification of avian influenza viruses from waters, muds and aquatic animals"

A publication, namely "Development of an adsorption-elution technique for the recovery of A Influenza Viruses from large volumes of surface water" is in progress in collaboration with Institut Pasteur du Cambodge and would be submitted in Applied and Environmental Microbiology.

Work Package 8: "Evaluation of the impact of selected parameters involved in food processing"

Task 3: The experimental data obtained for all survival kinetics in the WorkPackage 8 were processed using the statistical software. A modelling approach was implemented, using available models to describe viral inactivation taking into account population and temperature variations as a function of time. Unfortunately the modelling was for the moment unsuccessful. The use of other softwares, adapted to the data explanation, is in progress.

Explanatory note on cost items and justification

– Personnel funded by the project:

LAST NAME, First name	Total Person-Months	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008		
GACHET Jessica	16	38,307.27
Total P1	16	38,307.27
Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010		
GACHET Jessica	2	4,566.15
Total P2	12	4,566.15
Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010		

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-	-	-
Total P3		0.00
Total P1+P2+P3 (M1-M42)	-	42,873.42

- Consumables:

Type of consumable	Date of invoice	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
PBS Dulbecco's	07/05/2007	106.67
Trypsin	09/05/2007	99.20
Penicillin streptomycin sol	16/05/2007	9.40
FBS South American	29/05/2007	450.00
Sang frais Poule	07/06/2007	82.61
QIAamp viral RNA mini kit	19/06/2007	141.03
MEM-Earles W/O	20/06/2007	32.50
Lc RNA amp kit	21/06/2007	675.10
CO2 carbopharm	30/06/2007	196.21
Flu/A/M/52/+SYB	09/07/2007	188.35
Conservation souche bact./50T	11/07/2007	25.50
Flu/A/M/64/+prob	13/07/2007	317.00
Cart.1MDS	26/07/2007	551.76
Sang frais Poule	27/07/2007	73.97
M13_Rv	27/08/2007	144.15
A/PR/8/34 Influenza A virus	29/08/2007	560.00
Bovine serum albumin frac	03/09/2007	94.00
Glycine reagentplus	21/09/2007	21.22
MEM-Earles W/O	04/10/2007	28.46
Sang frais Poule	11/10/2007	72.61
RiboMAX	16/10/2007	524.40
Rnase away flacon 250ml	17/10/2007	125.00
SS one step RT-PCR	17/10/2007	451.24
MEM-Earles W/O	18/10/2007	32.50
Qbiataq core kit	22/10/2007	274.00
500G extrait viande bœuf	23/10/2007	98.31
Turbo DNAfree	23/10/2007	162.00
Cristal violet oxalate	23/10/2007	55.16
SmartLadder 200	23/10/2007	511.90
QIAfilter plasmid maxi kit	23/10/2007	336.00
LC RNA kit hyb probes	25/10/2007	1,012.65
Polyethyleneglycol	25/10/2007	78.00
Bandelettes indicatrices de PH	07/11/2007	11.17
Penicillin streptomycin sol	15/11/2007	82.50
Polyethyleneglycol	15/11/2007	39.00
D-MEM	22/11/2007	23.20
QIAamp viral RNA mini kit	26/11/2007	152.00
Bandelettes indicatrices de PH	29/11/2007	22.35
Sang frais Poule	04/12/2007	57.61
NucleoSpin RNA Virus F	07/12/2007	196.85
SSIII 1-STEP QRT-PCR	11/12/2007	764.00
RNA ultrasense QRT-PCR	12/12/2007	397.00
QuantiTect Virus kit	20/12/2007	506.45
Extrait viande bœuf	18/01/2008	107.65
Polyethyleneglycol	22/01/2008	39.00
MEM-Earles W/O	29/01/2008	32.50
DEPC-Treated water	07/02/2008	105.00
QIAamp ultraSens virus kit	05/03/2008	286.90
Sang frais Poule	13/03/2008	57.61
Mineral oil	14/03/2008	23.87
Bandelettes indicatrices de PH	19/03/2008	23.24

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Sang frais Poule	21/03/2008	115.22
Flu/A/N1/627/-prob	18/04/2008	120.00
DEPC-Treated water	28/04/2008	936.00
PBS Dulbecco's	16/05/2008	94.70
QIAamp ultraSens virus kit	16/05/2008	286.90
Agarose	19/05/2008	1,024.00
Flacon Heto anti-G	19/05/2008	98.70
QIAamp viral RNA mini kit	23/05/2008	146.70
Compresse gaze	29/05/2008	36.18
SSII 1-STEP QRT PCR	10/06/2008	1,659.00
Trypsin	27/06/2008	74.50
Microplaque 96	07/05/2007	38.00
Flacon de culture 75cm2	14/05/2007	124.00
Tube à azote 2ml	16/05/2007	126.00
Falcon tube 15ml	16/05/2007	69.00
Virus sampler	04/06/2007	730.16
Microplaque 96 TC fond plat	13/06/2007	63.33
Concentrateur Vivacell	05/06/2007	131.17
Reservoir Biosart 250	15/06/2007	36.00
Pointe filtre Art	19/06/2007	148.28
Light cycler capillaries	21/06/2007	371.02
Avoir	18/07/2007	-4.28
Virus sampler	20/07/2007	344.53
Pleated filter cartridge	08/10/2007	404.60
Microtubes	07/11/2007	194.00
Microplaque 96 TC fond plat	21/11/2007	63.35
Virus sampler	29/11/2007	398.40
Tubes fond rond 2,5ml	03/12/2007	324.90
Pointe filtre	19/12/2007	60.00
Combitips plus biopur	18/02/2008	180.00
Tube à azote 2ml	19/02/2008	189.00
Light cycler capillaries	03/03/2008	227.20
Pointe Filtre art	03/03/2008	78.00
Pointe art 10	20/03/2008	103.50
Flacon de culture cellulaire	16/04/2008	69.00
Plaque 96 puits	19/05/2008	81.25
Pointe 0,1-10 µl	19/05/2008	103.50
Pointe 1-100 µl	20/05/2008	78.00
Gant safeskin purple nitrile	22/05/2008	75.24
Réservoir à réactifs	29/05/2008	59.94
Pointe 0,1-10 µl	03/06/2008	207.00
Pointe filtre 20-100-200 µl	06/06/2008	30.50
Light cycler capillaries	11/06/2008	454.40
Pointe 1-100 µl	13/06/2008	48.00
Dermaclean	17/06/2008	56.00
Flacon de culture	25/06/2008	126.48
Tube à azote 2ml	30/06/2008	129.78
Bidon carré 10L	08/06/2007	81.70
Vivacell 250 complet	27/06/2007	213.00
Mamelons réduits	07/07/2007	15.85
Bouteille à centrifuger	02/08/2007	196.08
Bidon carré 10L	18/09/2007	81.70
Adaptateur 8 canaux	31/10/2007	125.00
Mini cooler	08/11/2007	68.17
Multipette plus	23/11/2007	231.00
Bidon carré 10L	27/11/2007	81.70
Rack pour cryotubes	17/01/2008	22.40
Portoir pour 50 tubes à azote	25/02/2008	54.65
Portoir 96 tubes	10/03/2008	68.80
Appareil de filtration	18/03/2008	940.50
Sanicid 5	10/12/2007	105.93
Lingette DNA	05/02/2008	29.36
Lingette RNASE	07/04/2008	29.36

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Tete Eclair	27/06/2007	336.60
Tube Tygon	28/06/2007	162.87
Avoir	17/07/2007	-162.87
Tube silicone platinum	26/07/2007	150.40
Tube silicone platinum	08/10/2007	150.40
Location gaz	31/03/2007	18.59
Location gaz	30/04/2007	18.59
Location gaz	31/05/2007	18.59
Location gaz	30/06/2007	18.59
Location gaz	31/07/2007	18.59
Location gaz	31/08/2007	18.59
Location gaz	30/09/2007	18.59
Location gaz	31/10/2007	18.59
Location gaz	30/11/2007	18.59
Location gaz	31/12/2007	18.59
Transport colis	03/08/2007	12.50
Transport colis	07/08/2007	12.50
Transport colis	12/10/2007	19.50
Transport colis	23/11/2007	19.50
Transport colis	11/06/2007	24.00
Total P1		24,226.45
Reporting Period P2 (M19-M36)		
Sodium tetraborate decahydrate	02/07/2008	19.82
Polyethyleneglycol 6000	03/07/2008	89.76
MEM-EARLES	07/07/2008	66.00
Tube silicone platinum	15/07/2008	396.00
SSIII 1-STEP QRT-PCR 100	21/07/2008	1,429.20
Penicillin Streptomycin sol	11/08/2008	14.70
Indicateur Neutralit PH 5-10	23/08/2008	32.55
Rnase away flacon 250ml	28/08/2008	62.40
Tricine	28/08/2008	65.60
DNA Ladder 100bp	08/09/2008	112.00
SS ONE STEP RT-PCR	11/09/2008	741.00
NucleoSpin RNA Virus F	11/09/2008	292.50
SSIII 1-STEP QRT-PCR 100	22/09/2008	794.00
Trypsin	22/09/2008	59.60
Benzonase	30/09/2008	116.35
SSIII 1-STEP QRT-PCR 100	14/10/2008	1,588.00
Acide chlorhydrique	17/10/2008	17.22
Sodium hydroxide	17/10/2008	9.21
QIAamp Viral RNA Mini kit	20/10/2008	293.40
Dimethyl sulfoxide	22/10/2008	21.79
Compresse gaze 75x75	29/10/2008	30.42
SSIII 1-STEP QRT-PCR 100	13/11/2008	1,191.00
Trypsin	19/11/2008	59.60
SSIII 1-STEP QRT-PCR 100	08/12/2008	1,262.00
SSIII 1-STEP QRT-PCR 100	07/01/2009	826.00
QIAamp Viral RNA Mini kit	07/01/2009	153.90
SSIII 1-STEP QRT-PCR 100	13/01/2009	413.00
RNASE away flacon 250ml	30/01/2009	93.60
Oligonucleotides	11/02/2009	256.26
SSIII 1-STEP QRT-PCR 100	13/02/2009	413.00

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Magnetic Stand for 6 tubes	17/02/2009	539.90
Isopropanol	25/02/2009	34.22
RNA PowerSoil Total RNA Isolation kit	26/02/2009	239.70
Extrait viande bœuf	27/02/2009	99.45
SSIII 1-STEP QRT-PCR 100	12/03/2009	1,860.00
MEM EARLES	20/03/2009	26.40
QIAamp Viral RNA Mini kit	20/03/2009	153.90
MagMAX AI/ND viral RNA Isol kit	24/03/2009	256.40
SSIII 1-STEP QRT-PCR 100	07/04/2009	2,065.00
BM-GENE 32 PROTEIN	08/04/2009	552.00
MagMAX AI/ND viral RNA Isol kit	17/04/2009	256.40
Betaine	20/04/2009	113.54
Betaine	23/04/2009	86.10
MEM EARLES	27/04/2009	33.00
SSIII 1-STEP QRT-PCR 100	28/04/2009	2,065.00
BM-GENE 32 PROTEIN	29/04/2009	414.00
Viande canard hachée (remboursement)	17/04/2009	23.56
Sodium chlorure pour analyses ACS	30/04/2009	8.60
BSA 100ml	19/05/2009	610.00
Compresse gaze 75x75	25/05/2009	20.80
Phenol/Chloroforme/Alcool iso-amylque	27/05/2009	108.80
MEM EARLES	28/05/2009	54.25
SSIII 1-STEP QRT-PCR 100	03/06/2009	2,065.00
BM-GENE 32 PROTEIN	04/06/2009	690.00
OneStep RT-PCR Kit	16/06/2009	853.20
avoir	07/07/2009	- 35.00
QuantiTect probe RT-PCR kit	08/07/2009	680.40
MEM EARLES	13/07/2009	66.00
Fungizone	16/07/2009	27.30
Compresse gaze 75x75	16/07/2009	41.60
Viande poulet haché remboursement	22/07/2009	10.71
PBS DULBECCO'S	06/08/2009	25.75
Oligos	07/08/2009	298.00
Oligos	07/08/2009	351.36
Oligos	14/08/2009	637.00
Indicateur neutralit. PH 5-10	12/09/2009	107.62
DEPC-TREATED WATER	23/09/2009	177.50
QIAamp Viral RNA Mini kit	24/09/2009	461.70
SSIII 1-STEP QRT-PCR 100	01/10/2009	1,652.00
Oligonucleotides	08/10/2009	120.00
Heto anti-G Reastabil	12/10/2009	98.70
Polyethyleneglycol	14/10/2009	112.80
MEM EARLES	20/10/2009	173.35

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Piston pellet seul	20/10/2009	205.20
Oligonucleotides	09/11/2009	240.00
Hoechst Stain Solution	16/12/2009	14.00
LightCycler Capillaries	08/07/2008	454.40
Pot crachat 180 ml	10/07/2008	34.05
Combitips plus biopur 5 ml	11/07/2008	206.00
Blouses	16/07/2008	38.97
Sharpsafe 2 litres	23/07/2008	131.00
Pointe filtre	23/07/2008	139.00
Piles LR6	24/07/2008	14.40
Gants latex	05/08/2008	28.00
Falcon tube 15ml	06/08/2008	274.50
Flacon de culture cellulaire	25/08/2008	133.62
Gants latex	03/09/2008	56.00
Pointe filtre	09/09/2008	139.00
LightCycler Capillaries	10/09/2008	227.20
Brossettes	18/09/2008	40.80
Gants latex	03/10/2008	56.00
Pointe filtre	07/10/2008	31.00
Microtube 0.5ml	09/10/2008	76.90
Combitips plus biopur 10ml	13/10/2008	90.00
Tube à azote 2 ml	17/10/2008	64.89
LightCycler Capillaries	21/10/2008	454.40
Tube culture conique	21/10/2008	138.00
Microplaque culture 96	23/10/2008	66.00
Pointe filtre	27/10/2008	48.00
Pointe filtre	12/11/2008	98.10
Gants latex	27/11/2008	56.00
Tube culture conique	04/12/2008	68.00
LightCycler Capillaries	15/12/2008	454.40
Gaine thermosoudable	29/12/2008	190.00
Pointe filtre	20/01/2009	159.00
Pipette de serologie	21/01/2009	210.00
Gants latex	26/01/2009	56.00
Stripette 25ml	26/01/2009	34.34
LightCycler Capillaries	06/02/2009	454.40
Pointe filtre	16/03/2009	122.00
Gants latex	17/03/2009	56.00
Tube à azote 2 ml	17/03/2009	129.78
Microplaque culture 96	23/03/2009	241.00
Ruban PVC Plastifié	30/03/2009	89.56
Piston pellet seul	16/04/2009	368.80
flacon de culture	21/04/2009	63.24
Tube à azote 2 ml	21/04/2009	64.89
Microtube 2 ml	22/04/2009	165.00
Cryotube 1.5 ml	23/04/2009	130.00
Microtube 1.5 ml	27/04/2009	150.00

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Piston pellet seul	29/04/2009	184.40
Pointe filtre	11/05/2009	87.00
Gants latex	13/05/2009	28.00
Flacon de culture cellulaire	19/05/2009	70.38
LightCycler Capillaries	22/05/2009	454.40
Bain à sec	26/05/2009	527.00
Microplaque culture 96	26/05/2009	67.00
Charlotte	27/05/2009	18.45
Flacon culture 250 ml	27/05/2009	82.00
Tube culture conique	28/05/2009	69.00
Gants latex	05/06/2009	28.00
LightCycler Capillaries	08/06/2009	454.40
Pipette de serologie	15/06/2009	74.00
Stripette 25ml	17/06/2009	37.74
sharpsafe 7 litres	03/07/2009	124.00
sharpsafe 2 litres	03/07/2009	67.00
Cryotube 1.5 ml	09/07/2009	130.00
Flacon de culture cellulaire	10/07/2009	73.04
Microplaque culture 96	13/07/2009	192.00
Falcon tube 50ml	14/07/2009	53.00
Combitips plus biopur 2.5 ml	15/07/2009	218.40
Pointe filtre	16/07/2009	58.00
Tube à azote 2 ml	20/07/2009	133.90
Réservoirs à réactifs	20/07/2009	59.58
Pointe filtre	30/07/2009	133.00
Gants	02/09/2009	36.80
Blouses	04/09/2009	32.30
Parafilm	11/09/2009	25.00
Flacon carré 2000ml	23/09/2009	29.61
Pointe filtre	01/10/2009	58.00
Combi kleenguard jaune	07/10/2009	235.90
LightCycler Capillaries	19/10/2009	397.60
Tube à azote 2 ml	20/10/2009	133.90
Réservoirs à réactifs	21/10/2009	59.58
Combitips plus biopur 2.5ml	21/10/2009	334.40
Pots à prélèvement polypro 180ml	22/10/2009	35.88
Pointe filtre	30/10/2009	29.00
Rouleau Teflon	31/10/2009	3.03
Pointe filtre	02/11/2009	29.00
Bouteille à centrifuger	09/06/2008	192.96
Entonnoirs à transvaser	03/07/2008	20.34
Bidons carrés 10L	18/07/2008	56.82
Ciseaux fort arrondi	22/09/2008	9.00
Bidons carrés 10L	06/11/2008	85.06
Flacon 500ml	14/11/2008	37.72
Bidons carrés 10L	19/12/2008	85.06
Appareil de filtration	10/02/2009	3,488.10

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Appareil de filtration	11/03/2009	1,494.90
Boite 36 tubes 15ml	25/03/2009	199.44
Boite 36 tubes 15ml	06/04/2009	49.86
Appareil de filtration	29/04/2009	4,942.50
Sonde d'immersion	09/06/2009	266.75
Boite congélation	09/07/2009	90.00
Accurack pr 20 tubes	17/09/2009	178.00
Bottes pvc	10/07/2008	29.62
Paire de manchettes Hypalon	27/05/2009	375.40
Laine de verre	29/02/2008	55.92
Sanicid	02/09/2008	45.57
Aniospray	17/11/2008	72.72
RNase away et DNA away	28/01/2009	186.00
RNase away et DNA away	22/06/2009	186.00
RNase away et DNA away	12/08/2009	155.00
Lingette DNA away	19/08/2009	59.64
Vortex Adapter Genie	31/03/2009	205.00
Cartouches lexmark	23/07/2008	93.85
Fourniture documents	01/10/2008	9.10
Fourniture documents	03/11/2008	24.00
Fourniture documents	04/11/2008	5.00
Fourniture documents	18/12/2008	6.00
Fourniture documents	30/03/2009	14.00
Fourniture documents	21/04/2009	8.00
Fourniture documents	24/06/2009	6.00
Fourniture documents	26/08/2009	32.61
Poster	30/04/2009	103.36
Poster	30/05/2009	32.29
Transport colis	31/10/2008	995.00
Avoir	28/02/2009	- 300.00
Transport colis	30/09/2009	7.63
Transport colis	31/10/2009	6.98
Fûts plastiques jaunes. pipettes 2.5.10 ml	22/09/2008	214.41
Tubes hémolyse 5ml	01/10/2008	51.63
Fûts plastiques jaunes	22/12/2008	170.89
Pipettes 5 ml. pipettes 10 ml	06/01/2009	36.72
Pipettes 10 ml. chloroforme	03/02/2009	22.60
Pipettes 10 ml	04/05/2009	17.80
Pipettes 10 ml. fûts plastiques jaunes	01/06/2009	136.35
Pipettes 10 ml. fûts plastiques jaunes	01/04/2009	131.72
Pipettes 5ml. 10 ml. fûts plastiques jaunes	01/07/2009	255.77
Pipettes 10 ml	01/12/2009	18.05
Total P2		55,448.56
Reporting Period P3 (M37-M42)		

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Documentation	27/01/2010	15.00
Documentation	07/05/2010	21.74
Total P3		36.74
Total P1+P2+P3 (M1-M42)		79,711.75

- Travel:

Type of travel	Date	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
Transport Paris N. Deboosere	09/02/2007	54.20
Transport Paris F. JEAN	09/02/2007	91.30
Hébergement Paris	20/02/2007	89.78
Tickets Métro	16/02/2007	2.18
Tickets Métro	26/02/2008	3.85
Transport Paris N. Deboosere	26/02/2008	56.60
Hébergement Paris + repas	26/02/2008	104.22
Transport Paris J. Gachet	25/02/2008	95.80
Transport Paris J. Gachet	26/02/2008	55.20
AVOIR	25/02/2008	-52.70
hébergement Paris + repas	26/02/2008	104.22
Transport Paris A. Pinon	25/02/2008	49.30
Transport Paris A. Pinon	26/02/2008	28.30
AVOIR	25/02/2008	-25.80
Repas Paris	30/05/2008	11.00
Transport Paris V. Alexandre	30/05/2008	110.40
Tickets Métro + repas	30/05/2008	16.74
Transport Paris N. Deboosere	30/05/2008	56.60
Repas Paris	02/06/2008	14.00
Transport Paris V. Alexandre	02/06/2008	95.80
Tickets Métro + repas	02/06/2008	18.44
Transport Paris N. Deboosere	02/06/2008	49.30
Repas réunion Rivers	23/05/2008	133.52
Total P1		1,162.25
Reporting Period P2 (M19-M36)		
Transport Paris J. GACHET (23/04/09)	20/04/2009	116.00
Hébergement + repas + métro Paris	24/04/2009	143.14
Transport Paris J GACHET (02/07/09)	30/06/2009	116.00
Métro Paris (02/07/09)	03/07/2009	2.28
Transport Paris Nathalie Deboosere (02/07/09)	30/06/2009	59.00
Métro Paris (02/07/09)	03/07/2009	2.93
Total P2		439.35
Reporting Period P3 (M37-M42)		
RIVERS Meeting Paris	28/07/2010	67.68
Total P3		67.68
Total P1+P2+P3 (M1-M42)		1,669.28

- Durable Equipment:

Type of Equipment	Amount (€) [Excl. of Tax]
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RIVERS

(Description)	
Reporting Period P1 (M1-M18)	
Total P1	0.00
Reporting Period P2 (M19-M36)	
Total P2	0.00
Reporting Period P3 (M37-M42)	
Total P3	0.00
Total P1+P2+P3	0.00

– Audit certificate (Subcontracting/Management Activities):

Name of Auditor	Amount (€) [Excl. of Tax]
1 audit certificate covering Reporting Periods 1, 2 and 3	
KPMG	500,00
Total	500,00

An audit was carried out by KPMG, covering reporting periods from P1 to the last reporting period of the project (01/02/2007-31/07/2010). However, its cost is not eligible as it was conducted past the 45-day after the end of the final period deadline.

– Indirect costs (20% flat rate):

Indirect Costs (€) [Excl. of Tax]	
Reporting Period P1 (M1-M18)	
Total	12,739.19
Reporting Period P2 (M19-M36)	
Total	12,090.81
Reporting Period P3 (M37-M42)	
Total	20.88
Total P1+P2+P3	24,850.88

Summary of costs

	Period P1 (M1-M18) (€) [Excl. of Tax]	Period P2 (M19-M36) (€) [Excl. of Tax]	Period P3 (M37-M42) (€) [Excl. of Tax]
Personnel	38,307.27	4,566.15	0.00
Consumables	24,226.45	55,448.56	36.74
Travel	1,162.25	439.35	67.68
Durable Equipment	0.00	0.00	0.00
Audit Certificate	0.00	0.00	500.00 (not eligible for reimbursement)
Indirect Costs	12,739.19	12,090.81	20.88
Total	76,435.16	72,544.87	125.30
Total P1+P2+P3	149,105.33		

Major deviations from cost budget and from person-month budget

RIVERS

Reporting Period 1:

21 person-months have been required for Work Package 1 (among them 5 person-months Permanent Personnel), while 14 person-months had been forecasted.

Molecular detections of H5 and M genes by real-time RT-PCR have been optimised on Influenza A virus H5N1 by Nathalie DEBOOSERE, responsible for Virology and Molecular Biology group in the Microbiological Safety Unit, led by Michèle VIALETTE.

Jessica GACHET has been recruited in order to take in charge the development of viral concentration procedures from surface waters and from mud. Because lots of technical difficulties occurred, validations on *Influenza A virus H5N1* had to be conducted in a high-biosesurity laboratory (biosafety level 3), developments required more time.

Anthony PINON, responsible of Mathematical Modelling approach in the Unit, has participated in this Work Package to design fractional experimental plan and to analyse results of experiments.

Due to the fact that the experiments for Work Package 1 took more time than initially planned, Work Package 8 has been delayed and will start on and after January 2009.

**Partner 8 – Interdisciplinary Centre for Mathematical and Computational Modelling
(AC Cost Model)**

Scientific Leader: Jan RADOMSKI

Description of the work performed

Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008

J.P. RADOMSKI was involved in WP9, WP10 and WP11.

F. RAKOWSKI and K. WALAS participated in WP9.

Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010

J.P. RADOMSKI was involved in WP 9, WP10 and WP 11.

T.BADOWSKI, Sz. JARANOWSKI, P. PŁOŃSKI and T. ŻUK participated in WP9.

Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010

J.P. RADOMSKI was involved in WP 9, WP10 and WP 11.

Explanatory note on cost items and justification

– Personnel funded by the project:

LAST NAME, First name	Total Person-Months	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008		
Jan RADOMSKI	14 (+ 1*)	67.280.09
<i>* Jan RADOMSKI spent 1/3 person-month on WP9, 10 and 11 (total 1 p.m), corresponding to time spent travelling, attending meetings, etc. No extra personnel costs were charged.</i>		
Franciszek RADOWSKI	5	6.578.41
Kamil WALAS	2	2.126.90
Total P1	22	75,985.40
Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010		
Tomasz BADOWSKI	1	449.49
Szymon JARANOWSKI	1	399.55
Piotr PŁOŃSKI	3	3 795.73
Jan RADOMSKI	5 (+ 1*)	16 776.51
<i>* Jan RADOMSKI spent 1/3 person-month on WP9, WP10 and WP11 (total 1 p-m). corresponding to time spent travelling. attending meetings. etc. No extra personnel costs were charged.</i>		
Tomasz ŻUK	4	5,967.75
Total P2	15	27,389.03
Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010		
Jan RADOMSKI	2 (+ 1*)	3,244.02
<i>* Jan RADOMSKI spent 1/3 person-month on WP9, WP10 and WP11 (total 1 p-m). corresponding to time spent travelling. attending meetings. etc. No extra personnel costs were charged.</i>		
Total P3		3,244.02
Total P1+P2+P3 (M1-M42)	-	106,618.45

– Consumables:

RIVERS

Type of consumable	Date of invoice	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
Insurance	29.09.2007	120.07
Total P1		120.07
Reporting Period P2 (M19-M36)		
Total P2		0.00
Reporting Period P3 (M37-M42)		
Total P3		0.00
Total P1+P2+P3 (M1-M42)		120.07

- Travel:

Type of travel	Date	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
RIVERS Kick-Off meeting. Institut Pasteur. Paris	08-13.02.2007	975.59
Meeting at CIRAD. Montpellier	20-25.03.2007	1.001.01
Meeting and Workshop at CIRAD. Montpellier	03-06.09.2007	720.49
Meeting at Institut Pasteur. Lille	22.10.2007	136.30
Meetings at Institut Pasteur. Paris	30.10.2007-08.11.2007	706.59
Meeting at Institut Pasteur. Paris	11.12.2007	241.06
RIVERS partial meeting at Institut Pasteur. Paris	25-26.02.2008	273.27
Total P1		4,054.31
Reporting Period P2 (M19-M36)		
Total P2		0.00
Reporting Period P3 (M37-M42)		
Total P3		0.00
Total P1+P2+P3 (M1-M42)		4,054.31

- Durable Equipment:

Type of Equipment (Description)	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)	
Total P1	0.00
Reporting Period P2 (M19-M36)	
Total P2	0.00
Reporting Period P3 (M37-M42)	
Total P3	0.00
Total P1+P2+P3	0.00

- Audit certificate (Subcontracting/Management Activities):

RIVERS

Name of Auditor	Amount (€) [Excl. of Tax]
1 audit certificate covering Reporting Periods 1, 2 and 3	
"Saldo-Kredyt" Sp. Z o.o.	800,00
Total	800,00

– Indirect costs (20% flat rate):

Indirect Costs (€) [Excl. of Tax]	
Reporting Period P1 (M1-M18)	
Total	16,031.96
Reporting Period P2 (M19-M36)	
Total	5,477.81
Reporting Period P3 (M37-M42)	
Total	648.80
Total P1+P2+P3	22,158.57

Summary of costs

	Period P1 (M1-M18) (€) [Excl. of Tax]	Period P2 (M19-M36) (€) [Excl. of Tax]	Period P3 (M37-M42) (€) [Excl. of Tax]
Personnel	75,985.40	27,389.03	3,244.02
Consumables	120.07	0.00	0.00
Travel	4,054.31	0.00	0.00
Durable Equipment	0.00	0.00	0.00
Audit Certificate	0.00	0.00	800.00
Indirect Costs	16,031.96	5,477.81	648.80
Total	96,191.75	32,866.84	4,692.82
Total P1+P2+P3	133,751.41		

Major deviations from cost budget and from person-month budget

Reporting Period 1:

A substantial difference in exchange rates of Zloty/Euro at the budget planning stage and at the first day calculating final expenditure of the M1-M18 period (Aug. 1st. 2008) is the reason behind deviation of personnel costs (Travel costs were calculated in Euros only for the whole duration of M1-M18. so there are no differences).

Reporting Period 2:

A substantial difference in exchange rates of Zloty/Euro at the budget planning stage and at the first day calculating final expenditure of the M1-M18 period (Aug. 1st. 2008) and again at the first day calculating final expenditure of the M19-M36 period (Feb. 1st. 2010) are the reasons behind deviation of personnel costs (the costs of travel were in Euros only for the whole duration of M1-M18, so there are no differences). In order to meet the project's goals we were forced to employ more graduate students in the second reporting period.

Partner 9 – Wuhan Institute of Virology (AC Cost Model)

Scientific Leader: Ze CHEN

Description of the work performed**Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008**

The research work contains 3 parts:

- 1) Sample collection and virus isolation. Water samples have been collected in two large lakes in China: Dongting Lake and Qinghai Lake. Two methods associated with influenza virus isolation from water samples have been established, with which many strains of influenza A virus of subtypes H5N1 and H9N2 have been isolated from the Dongting Lake samples. In addition, samples from poultry farms and markets have also been collected, and many H5N1 viruses have been isolated.
- 2) DNA sequencing and phylogenetic analysis of the isolates.
- 3) Pathogenicity evaluation of some isolates. Some of the H5N1 viruses have been chosen to test the pathogenicity in fowls (including ducks and chickens) and mice.

Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010

The research in M19-M36 contains five parts. 1) Sample collection and virus isolation. Continue to collect the water sample, faecal sample, cloacal sample of the backyard poultry in Dongting lake wetland and in the living poultry market in the city around the wetland; 2) DNA sequencing and phylogenetic analysis of the whole genomes of the selected isolates. 3). Pathogenicity evaluation of some isolates. Some of the H5N1 viruses and H9N2 viruses have been chosen to test the pathogenicity in chickens and mice; 4) To assess the potential pathogenicity of the isolated low pathogenic virus to the mammal animals in the mice. Adaptation of the H10N8 strain in mouse lung was carried out by serial lung to lung passage. The molecular mechanism involved in the enhanced virulence was analyzed; 5) To assess the perpetuation of AIVs in natural water. Determining the duration of persistence for H5N1 (highly pathogenic AIV) and H9N2 viruses (low pathogenic AIV) in different natural water.

Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010

The research in M37-M42 contains three parts. 1) Multiyear Surveillance for AIVs in Dongting lake wetland area. We continue to collect the water sample, fecal sample, cloacal sample of the backyard poultry in Dongting lake wetland and in the living poultry market in the city around the wetland or on the migration route. HA gene segment of the some new isolated H5N1 viruses were sequenced and the genetic evolution relationship was compared to the H5N1 viruses isolated previously; 2) Characterization of an H4N2 influenza virus isolated from duck of Dongting lake wetland. The whole genome of one H4N2 virus was sequenced and phylogenetic analysis had been performed; 3) To further explore the molecular mechanism involved in the adaptation of avian influenza virus to mice. We conclude that multiple amino acid substitutions are likely to be involved in the adaptation of avian influenza virus to mice.

Explanatory note on cost items and justification

– Personnel funded by the project:

LAST NAME, First name	Total Person-Months	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18): 01/02/2007 to 31/07/2008		
Jianjun CHEN	18	5.149.72
Quanjiao CHEN	18	5.149.72
Huadong WANG	18	3.433.15
Total P1	54	13,732.59
Reporting Period P2 (M19-M36): 01/08/2008 to 31/01/2010		
Jianjun Chen	18	3,714.02
Quanjiao Chen	18	3,714.02
Huadong Wang	18	1,857.01
Hongbo Zhang	18	1,857.01

RIVERS

Total P2	72	11,142.06
Reporting Period P3 (M37-M42): 01/02/2010 to 31/07/2010		
Huadong Wang	3	663.53
Hongbo Zhang	3	663.53
Total P3		1,327.06
Total P1+P2+P3 (M1-M42)	-	26,201.71

- Consumables:

Type of consumable	Date of invoice	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
Reagent	05.2007-08.2008	5.185.58
Consumable	06.2007-08.2008	2.615.37
Embryonated egg or animals	06.2007-08.2008	4.753.88
Sequencing or Synthesizing	08.2007-08.2008	6.245.32
Total P1		18,800.15
Reporting Period P2 (M19-M36)		
Reagent	2008.8-2010.1	6,290.72
Consumable	2008.8-2010.1	3,788.93
Embryonated egg or animals	2008.8-2010.1	4,397.61
Sequencing or Synthesizing	2008.8-2010.1	5,242.91
Total P2		19,720.17
Reporting Period P3 (M37-M42)		
Reagent	2010.2-2010.7	571.98
Consumable	2010.2-2010.7	380.09
Embryonated egg or animals	2010.2-2010.7	398.12
Sequencing or Synthesizing	2010.2-2010.7	534.79
Total P3		1,884.98
Total P1+P2+P3 (M1-M42)		40,405.30

- Travel:

Type of travel	Date	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)		
International	2007.3-12	2.003.05
International	2008.1-7	1.380.37
National	2007.5-12	3.303.98
National	2008.1-7	2.286.98
Total P1		8,974.38
Reporting Period P2 (M19-M36)		
National	2008.8-2010.1	2,567.45
Total P2		2,567.45
Reporting Period P3 (M37-M42)		
National	2010.2-2010.7	573.21
Total P3		573.21
Total P1+P2+P3 (M1-M42)		12,115.04

RIVERS

– Durable Equipment:

Type of Equipment (Description)	Amount (€) [Excl. of Tax]
Reporting Period P1 (M1-M18)	
Total P1	0.00
Reporting Period P2 (M19-M36)	
Total P2	0.00
Reporting Period P3 (M37-M42)	
Total P3	0.00
Total P1+P2+P3	0.00

– Audit certificate (Subcontracting/Management Activities):

Name of Auditor	Amount (€) [Excl. of Tax]
1 audit certificate covering Reporting Periods 1, 2 and 3	
Jian Gao Wuhan TianYi Certified Public Accountants Co., Ltd., Hubei, P.R. China	347.16
Total	347.16

– Indirect costs (20% flat rate):

Indirect Costs (€) [Excl. of Tax]	
Reporting Period P1 (M1-M18)	
Total	8,301.42
Reporting Period P2 (M19-M36)	
Total	6,685.94
Reporting Period P3 (M37-M42)	
Total	757.05
Total P1+P2+P3	15,744.41

Summary of costs

	Period P1 (M1-M18) (€) [Excl. of Tax]	Period P2 (M19-M36) (€) [Excl. of Tax]	Period P3 (M37-M42) (€) [Excl. of Tax]
Personnel	13,732.59	11,142.06	1,327.06
Consumables	18,800.15	19,720.17	1,884.98
Travel	8,974.38	2,567.45	573.21
Durable Equipment	0.00	0.00	0.00
Audit Certificate	0.00	0.00	347.16
Indirect Costs	8,301.42	6,685.94	757.05
Total	49,808.54	40,115.62	4,889.46

RIVERS

Total P1+P2+P3	94,813.62
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Major deviations from cost budget and from person-month budget

None.

RIVERS

Tabular Overview of budgeted person-months and actual person-months, by contractor and by Work Package (M1-M42)

CONTRACT N°: SSPE-CT-2006-44405		Partner - Person-months per Work Package Permanent + non-permanent staff										AC Partners Own (Permanent) Staff									
ACRONYM: RIVERS																					
PERIOD: 01/02/2007-31/07/2010 (M1-M42)																					
		TOTALS	Coordinator - IPH	Partic. 2 - IC	Partic. 3 - MCB	Partic. 4 - IPC	Partic. 5 - IPS	Partic. 6 - CIRAD	Partic. 7 - IPL	Partic. 8 - ICM	Partic. 9 - VIV	AC TOTALS	Coordinator - IPH	Partic. 2 - IC	Partic. 3 - MCB	Partic. 4 - IPC	Partic. 5 - IPS	Partic. 7 - IPL	Partic. 8 - ICM	Partic. 9 - VIV	
Work Package 0: <i>Molecular basis of virus survival and virus strain "bioequivalence"</i>	Actual WP Total: (M1-M18)	9,40	9,40									9,40	9,40								
	Actual WP Total: (M19-M36)	13,50	13,50									0,80	0,80								
	Actual WP Total: (M37-M42)	12,00	12,00									1,20	1,20								
	Actual WP Total: (M1-M42)	34,90	34,90									11,40	11,40								
	Planned WP Total: (M1-M42)	12,00	12,00									-	-								
Work Package 1: <i>Concentration, identification and quantification of avian influenza viruses from waters, muds and aquatic animals</i>	Actual WP Total: (M1-M18)	23,70	1,70			1,00			21,00			7,70	1,70			1,00		5,00			
	Actual WP Total: (M19-M36)	14,70	1,70			4,00			9,00			11,60	0,60			4,00		7,00			
	Actual WP Total: (M37-M42)	3,70	0,20			1,50			2,00			3,70	0,20			1,50		2,00			
	Actual WP Total: (M1-M42)	42,10	3,60			6,50			32,00			23,00	2,50			6,50		14,00			
	Planned WP Total: (M1-M42)	22,00	4,00			4,00			14,00			-	-								
Work Package 2: <i>Observation of influenza viruses in natural environments</i>	Actual WP Total: (M1-M18)	79,50	1,10	0,50	3,50	2,00	0,00	6,40			66,00	15,60	1,10	0,50	0,00	2,00	0,00			12,00	
	Actual WP Total: (M19-M36)	119,22	1,60	1,50	0,00	23,00	3,00	6,12			84,00	40,00	0,50	1,50	0,00	23,00	3,00			12,00	
	Actual WP Total: (M37-M42)	19,85	0,10	3,00	0,00	5,00	1,50	0,25			10,00	13,60	0,10	3,00	0,00	5,00	1,50			4,00	
	Actual WP Total: (M1-M42)	218,57	2,80	5,00	3,50	30,00	4,50	12,77			160,00	69,20	1,70	5,00	0,00	30,00	4,50			28,00	
	Planned WP Total: (M1-M42)	88,00	4,00	13,00	6,00	30,00	6,00	9,00			20,00	-	-								
Work Package 3: <i>Observation of influenza virus survival and concentration in experimental settings</i>	Actual WP Total: (M1-M18)	8,00			0,00	8,00						8,00			0,00	8,00					
	Actual WP Total: (M19-M36)	21,00			0,00	21,00						21,00			0,00	21,00					
	Actual WP Total: (M37-M42)	1,00			0,00	1,00						1,00			0,00	1,00					
	Actual WP Total: (M1-M42)	30,00			0,00	30,00						30,00			0,00	30,00					
	Planned WP Total: (M1-M42)	36,00			6,00	30,00						-									
Work Package 4: <i>Impact of water treatments on virus survival</i>	Actual WP Total: (M1-M18)	12,40	0,15	12,25								12,40	0,15	12,25							
	Actual WP Total: (M19-M36)	8,50	2,00	6,50								8,50	2,00	6,50							
	Actual WP Total: (M37-M42)	0,10	0,10	0,00								0,00		0,00							
	Actual WP Total: (M1-M42)	21,00	2,25	18,75								20,90	2,15	18,75							
	Planned WP Total: (M1-M42)	44,00	2,00	42,00								-									
Work Package 5: <i>Impact of air conditions on virus survival</i>	Actual WP Total: (M1-M18)	4,50	4,50			0,00						4,50	4,50				0,00				
	Actual WP Total: (M19-M36)	9,67	5,67			4,00						6,17	2,17				4,00				
	Actual WP Total: (M37-M42)	9,80	7,30			2,50						7,70	5,20				2,50				
	Actual WP Total: (M1-M42)	23,97	17,47			6,50						18,37	11,87				6,50				
	Planned WP Total: (M1-M42)	17,00	13,00			4,00						-									
Work Package 6: <i>Persistence of viable virus in farms surroundings</i>	Actual WP Total: (M1-M18)	30,30	0,90	1,20	19,50	2,00	0,00	2,70			4,00	8,10	0,90	1,20	0,00	2,00	0,00			4,00	
	Actual WP Total: (M19-M36)	26,18	0,83	1,50	13,00	3,00	0,00	0,85			4,00	12,23	0,73	1,50	0,00	3,00	3,00			4,00	
	Actual WP Total: (M37-M42)	12,68	0,20	0,50	6,00	1,00	1,50	0,48			3,00	6,20	0,20	0,50	0,00	1,00	1,50			3,00	
	Actual WP Total: (M1-M42)	69,16	1,93	3,20	38,50	6,00	4,50	4,03			11,00	26,53	1,83	3,20	0,00	6,00	4,50			11,00	
	Planned WP Total: (M1-M42)	64,00	2,00	6,00	30,00	6,00	4,00	12,00			4,00	-	-								
Work Package 7: <i>Impact of air and surface treatments on virus survival</i>	Actual WP Total: (M1-M18)	13,90	0,90				9,00				4,00	4,90	0,90				0,00			4,00	
	Actual WP Total: (M19-M36)	27,23	0,73				22,50				4,00	27,13	0,63				22,50			4,00	
	Actual WP Total: (M37-M42)	8,30	0,80				4,50				3,00	8,15	0,65				4,50			3,00	
	Actual WP Total: (M1-M42)	49,43	2,43				36,00				11,00	40,18	2,18				27,00			11,00	
	Planned WP Total: (M1-M42)	44,00	2,00				36,00				6,00	-	-								
Work Package 8: <i>Evaluation of the impact of selected parameters involved in food processing</i>	Actual WP Total: (M1-M18)	0,80	0,80					0,00				0,80	0,80					0,00			
	Actual WP Total: (M19-M36)	10,67	0,67					10,00				10,60	0,60					10,00			
	Actual WP Total: (M37-M42)	3,60	0,60					3,00				3,50	0,50					3,00			
	Actual WP Total: (M1-M42)	15,07	2,07					13,00				14,90	1,90					13,00			
	Planned WP Total: (M1-M42)	20,00	2,00					18,00				-	-								
Work Package 9: <i>Modelling of virus survival and concentration in natural water reservoirs and soiled surfaces</i>	Actual WP Total: (M1-M18)	35,23	0,90			4,00	9,00		21,33			4,90	0,90			4,00				0,00	
	Actual WP Total: (M19-M36)	18,56	0,73			0,00	3,50		14,33			0,40	0,40			0,00				0,00	
	Actual WP Total: (M37-M42)	8,23	0,30			0,00	5,60		2,33			0,30	0,30			0,00				0,00	
	Actual WP Total: (M1-M42)	62,02	1,93			4,00	18,10		37,99			5,60	1,60			4,00				0,00	
	Planned WP Total: (M1-M42)	46,00	2,00			4,00	4,00		36,00			-	-								
Work Package 10: <i>Recommendations from the prevention and control to current and future avian influenza outbreaks in wild and domestic birds with a pandemic potential in Europe and the rest of the world</i>	Actual WP Total: (M1-M18)	0,33	0,00	0,00		0,00	0,00	0,00	0,33			0,00	0,00	0,00		0,00		0,00	0,00		
	Actual WP Total: (M19-M36)	1,13	0,00	0,50		0,00	0,30	0,00	0,33			0,50	0,00	0,50		0,00		0,00	0,00		
	Actual WP Total: (M37-M42)	2,03	0,50	0,00		1,00	0,20	0,00	0,33			1,50	0,50	0,00		1,00		0,00	0,00		
	Actual WP Total: (M1-M42)	3,49	0,50	0,50		1,00	0,50	0,00	0,99			2,00	0,50	0,50		1,00		0,00	0,00		
	Planned WP Total: (M1-M42)	8,00	3,00	1,00		1,00	1,00	1,00	1,00			-	-								
Work Package 11: <i>Management of the RIVERS Project</i>	Actual WP Total: (M1-M18)	13,63	8,50	0,00	0,00	1,00	0,00	1,80	0,00	0,33	2,00	11,50	8,50	0,00	0,00	1,00	0,00	0,00	0,00	2,00	
	Actual WP Total: (M19-M36)	15,95	8,50	1,00	0,00	1,50	1,00	1,62	0,00	0,33	2,00	14,00	8,50	1,00	0,00	1,50	1,00	0,00	0,00	2,00	
	Actual WP Total: (M37-M42)	9,16	5,60	0,00	0,00	0,50	0,50	0,23	0,00	0,33	2,00	8,60	5,60	0,00	0,00	0,50	0,50	0,00	0,00	2,00	
	Actual WP Total: (M1-M42)	38,74	22,60	1,00	0,00	3,00	1,50	3,65	0,00	0,99	6,00	34,10	22,60	1,00	0,00	3,00	1,50	0,00	0,00	6,00	
	Planned WP Total: (M1-M42)	39	15	3	3	3	3	3	3	3	3	-	-								
Actual Total: (M1-M42)		608,45	92,48	28,45	42,00	80,50	53,00	39,05	45,00	39,97	188,00	296,18	60,23	28,45	0,00	80,50	44,00	27,00	0,00	56,00	
Planned Total: (M1-M42)		440	61	65	45	78	53	29	36	40	33	-	-	-	-	-	-	-	-	-	

RIVERS

Section 2 – Form C Financial statement per activity for the contractual reporting period (M1-M42)

Partner 1 – Institut Pasteur Paris

Form C - Model of Financial Statement per Activity (to be filled by each contractor)			
Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	RIVERS	Contract n°	SSPE-CT-2006-44405
Contractor's Legal Name	INSTITUT PASTEUR PARIS		
Legal Type	Non-profit		
Contact Person	Mrs. Valérie GADAUD	Telephone	+33 1 40 61 32 26
Telecopy	+33 1 40 61 39 38	E-mail	valerie.gadaud@pasteur.fr
Cost model used (AC/FC or FCF)	AC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat rate (up to 20% of direct costs, excluding subcontracting)
		Flat rate	20
Period from	01/02/2007	To	31/07/2010

1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No)		No
If Yes, please provide the following information		
Third Party 1 (Y1) Legal Name		Cost model used
Third Party 2 (Y2) Legal Name		Cost model used
Third Party 3 (Y3) Legal Name		Cost model used
Third Party 4 (Y4) Legal Name		Cost model used

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

	Type of Activity											
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	140721,67						7600,01				148321,68	0,00
Of which subcontracting							1200,00				1200,00	0,00
Indirect costs	28144,33						1280,01				29424,34	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	168866,00	0,00	0,00	0,00	0,00	0,00	8880,02	0,00	0,00	0,00	177746,02	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

	Type of Activity											
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(les)	Contractor	Third Party(les)	Contractor	Third Party(les)	Contractor	Third Party(les)	Contractor	Third Party(les)	Contractor	Third Party(les)
Total receipts											0,00	0,00

RIVERS

4- Declaration of interest generated by the pre-financing (in €)	
To be completed only by the coordinator.	
Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)	Yes
If yes, please mention the amount (in €)	1372,68

5- Request of FP6 Financial contribution (in €)	
For this period, the FP6 Community financial contribution requested is equal to (amount in €)	177746,01

6- Audit certificates			
According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)			
			Yes
If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)			
			Yes
If No, what is the periodicity covered by this(those) audit certificate(s)?		From – To	01/02/2007 31/07/2010
What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?			
Audit certificate of the contractor (X)			
Legal name of the audit firm	Grant Thornton	Cost of the certificate	1200,00
Audit certificate(s) of the third party(ies) (Ys) (if necessary)			
Y1: Legal name of the audit firm		Cost of the certificate	
Y2: Legal name of the audit firm		Cost of the certificate	
Y3: Legal name of the audit firm		Cost of the certificate	
Y4: Legal name of the audit firm		Cost of the certificate	
Total (Z) = (X) + (Ys)			1200,00
Reminders: The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium". The required audit certificate(s) is(are) attached to this Financial Statement.			

7-Conversion rates	
Costs incurred in currencies other than EURO shall be reported in EURO.	
Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.	
Contractor	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 2 (Y2)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 3 (Y3)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 4 (Y4)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

8- Contractor's Certificate		
We certify that:		
<ul style="list-style-type: none"> - the costs declared above are directly related to the resources used to reach the objectives of the project ; - the receipts declared above are directly related to the resources used to reach the objectives of the project ; - the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ; - the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ; - the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ; - the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ; - the above information declared is complete and true ; - there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives. 		
Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Jean-Claude MANUGUERRA	Véronique MARCHAIS
	Date	Date
	16/08/2010	01/09/2010
	Signature	Signature

RIVERS

Partner 2 – Institutul Cantacuzino

Form C - Model of Financial Statement per Activity (to be filled by each contractor)			
Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	RIVERS	Contract n°	SSPE-CT-2006-44405
Contractor's Legal Name	"Cantacuzino" National Institute of Research and Development Microbiology and Immunology		
Legal Type	Other		
Contact Person	Emilia LUPULESCU	Telephone	40213069100
Telecopy	4021369307	E-mail	elupulescu@cantacuzino.ro
Cost model used (AC//FC or FCF)	AC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat rate (up to 20% of direct costs, excluding subcontracting)
		Flat rate	20
Period from	01/02/2007	To	31/07/2010

1- Resources (Third party(ies))			
Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No)			No
If Yes, please provide the following information			
Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

2- Declaration of eligible costs (in €)	
Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.	
If you are a contractor using the additional cost model (AC):	
- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;	
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.	
If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.	
The costs declared should distinguish between direct and indirect costs.	
If necessary, adjustments to previous period(s) may be included where appropriate.	

	Type of Activity										Total	
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		(F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	58321,38						0,00				58321,38	0,00
Of which subcontracting							0,00				0,00	0,00
Indirect costs	11664,27										11664,27	0,00
Adjustments to previous period(s)	-1175,94										-1175,94	0,00
Total costs	68809,71	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	68809,71	0,00

3- Declaration of receipts (in €)	
If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.	
If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.	
If a receipt is not allocated to an activity	

	Type of Activity										Total	
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		(F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

RIVERS

4- Declaration of interest generated by the pre-financing (in €)	
To be completed only by the coordinator.	
Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)	No
If yes, please mention the amount (in €)	

5- Request of FP6 Financial contribution (in €)	
For this period, the FP6 Community financial contribution requested is equal to (amount in €)	68809,71

6- Audit certificates			
According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)			
			Yes
If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)			
			Yes
If No, what is the periodicity covered by this(those) audit certificate(s)?		From – To	01/02/2007 31/07/2010
What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?			
Audit certificate of the contractor (X)			
Legal name of the audit firm	Confident Expert CP	Cost of the certificate	1500,00
Audit certificate(s) of the third party(ies) (Ys) (if necessary)			
Y1: Legal name of the audit firm		Cost of the certificate	
Y2: Legal name of the audit firm		Cost of the certificate	
Y3: Legal name of the audit firm		Cost of the certificate	
Y4: Legal name of the audit firm		Cost of the certificate	
Total (Z) = (X) + (Ys)			1500,00
Reminders: The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium". The required audit certificate(s) is(are) attached to this Financial Statement.			

7-Conversion rates	
Costs incurred in currencies other than EURO shall be reported in EURO.	
Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.	
Contractor	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 2 (Y2)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 3 (Y3)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 4 (Y4)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

8- Contractor's Certificate		
We certify that:		
<ul style="list-style-type: none"> - the costs declared above are directly related to the resources used to reach the objectives of the project ; - the receipts declared above are directly related to the resources used to reach the objectives of the project ; - the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ; - the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ; - the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ; - the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ; - the above information declared is complete and true ; - there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives. 		
Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	IONESCU Gabriel	PETRICIA Camelia
	Date	Date
	20/12/2010	20/12/2010
	Signature	Signature

RIVERS

Partner 3 – The Stephan Angeloff Institute of Microbiology

Form C - Model of Financial Statement per Activity (to be filled by each contractor)			
Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	RIVERS	Contract n°	SSPE-CT-2006-44405
Contractor's Legal Name	The Stephan Angeloff Institute of Microbiology		
Legal Type	Non-profit		
Contact Person	Prof. Angel S. Galabov	Telephone	+35928700108; +359888287103
Telecopy	+35928700109	E-mail	galabov@microbio.bas.bg
Cost model used (AC/FC or FCF)	AC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat rate (up to 20% of direct costs, excluding subcontracting)
		Flat rate	20
Period from	01/02/2007	To	31/07/2010

1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) **No**

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;

- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

	Type of Activity										Total	
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		(F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	78583,00						13508,00				92091,00	0,00
Of which subcontracting							1500,00				1500,00	0,00
Indirect costs	15716,60						2401,60				18118,20	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	94299,60	0,00	0,00	0,00	0,00	0,00	15909,60	0,00	0,00	0,00	110209,20	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

	Type of Activity										Total	
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		(F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

RIVERS

4- Declaration of interest generated by the pre-financing (in €)	
To be completed only by the coordinator.	
Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)	No
If yes, please mention the amount (in €)	

5- Request of FP6 Financial contribution (in €)	
For this period, the FP6 Community financial contribution requested is equal to (amount in €)	110209,20

6- Audit certificates			
According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)			
			Yes
If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)			
			Yes
If No, what is the periodicity covered by this(those) audit certificate(s)?		From – To	01/02/2007 31/07/2010
What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?			
Audit certificate of the contractor (X)			
Legal name of the audit firm	Eleonora Bilbaleva - Registered Auditor	Cost of the certificate	1500,00
Audit certificate(s) of the third party(ies) (Ys) (if necessary)			
Y1: Legal name of the audit firm		Cost of the certificate	
Y2: Legal name of the audit firm		Cost of the certificate	
Y3: Legal name of the audit firm		Cost of the certificate	
Y4: Legal name of the audit firm		Cost of the certificate	
Total (Z) = (X) + (Ys)			1500,00
Reminders: The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium". The required audit certificate(s) is(are) attached to this Financial Statement.			

7-Conversion rates	
Costs incurred in currencies other than EURO shall be reported in EURO.	
Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.	
Contractor	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 2 (Y2)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 3 (Y3)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 4 (Y4)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

8- Contractor's Certificate		
We certify that:		
<ul style="list-style-type: none"> - the costs declared above are directly related to the resources used to reach the objectives of the project ; - the receipts declared above are directly related to the resources used to reach the objectives of the project ; - the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ; - the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ; - the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ; - the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ; - the above information declared is complete and true ; - there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives. 		
Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Angel S. GALABOV	Mrs. Pavlinka Nikolova Angelova
	Date	Date
	07/09/2010	07/09/2010
	Signature	Signature

RIVERS

Partner 4 – Institut Pasteur du Cambodge

Form C - Model of Financial Statement per Activity (to be filled by each contractor)			
Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	RIVERS	Contract n°	SSPE-CT-2006-44405
Contractor's Legal Name	INSTITUT PASTEUR DU CAMBODGE		
Legal Type			
Contact Person	Pascal MASSE-NAVETTE	Telephone	85512802977
Telecopy	85523725606	E-mail	pmasse@pasteur-kh.org
Cost model used (AC//FC or FCF)	AC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat rate (up to 20% of direct costs, excluding subcontracting)
		Flat rate	20
Period from	01/02/2007	To	31/07/2010

1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No)

No

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

	Type of Activity										Total	
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		(F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	131487,78						0,00				131487,78	0,00
Of which subcontracting							0,00				0,00	0,00
Indirect costs	26297,55										26297,55	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	157785,33	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	157785,33	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

	Type of Activity										Total	
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		(F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

RIVERS

4- Declaration of interest generated by the pre-financing (in €)	
To be completed only by the coordinator.	
Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)	No
If yes, please mention the amount (in €)	

5- Request of FP6 Financial contribution (in €)	
For this period, the FP6 Community financial contribution requested is equal to (amount in €)	157785,33

6- Audit certificates			
According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)			
			Yes
If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)			
			Yes
If No, what is the periodicity covered by this(those) audit certificate(s)?		From – To	01/02/2007 31/07/2010
What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?			
Audit certificate of the contractor (X)			
Legal name of the audit firm	Ernst & Young (Cambodia) Ltd.	Cost of the certificate	2597,97
Audit certificate(s) of the third party(ies) (Ys) (if necessary)			
Y1: Legal name of the audit firm		Cost of the certificate	
Y2: Legal name of the audit firm		Cost of the certificate	
Y3: Legal name of the audit firm		Cost of the certificate	
Y4: Legal name of the audit firm		Cost of the certificate	
Total (Z) = (X) + (Ys)			2597,97
Reminders: The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium". The required audit certificate(s) is(are) attached to this Financial Statement.			

7-Conversion rates	
Costs incurred in currencies other than EURO shall be reported in EURO.	
Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.	
Contractor	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 2 (Y2)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 3 (Y3)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 4 (Y4)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

8- Contractor's Certificate		
We certify that:		
<ul style="list-style-type: none"> - the costs declared above are directly related to the resources used to reach the objectives of the project ; - the receipts declared above are directly related to the resources used to reach the objectives of the project ; - the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ; - the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ; - the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ; - the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ; - the above information declared is complete and true ; - there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives. 		
Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Vincent DEUBEL	Pascal MASSE-NAVETTE
	Date	Date
	30/11/2010	30/11/2010
	Signature	Signature

RIVERS

Partner 5 – Chinese Academy of Sciences – Pasteur Institute of Shanghai

Form C - Model of Financial Statement per Activity (to be filled by each contractor)			
Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	RIVERS	Contract n°	SSPE-CT-2006-44405
Contractor's Legal Name	SHANGHAI INSTITUTES OF BIOLOGICAL SCIENCES, CHINESE ACADEMY OF SCIENCES		
Legal Type	Non-profit		
Contact Person	Prof. Xiaoya CHEN	Telephone	+862154920000
Telecopy	+862154920078	E-mail	xychen@sibs.ac.cn
Cost model used (AC/FC or FCF)	AC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat rate (up to 20% of direct costs, excluding subcontracting)
		Flat rate	20
Period from	01/02/2007	To	31/07/2010

1- Resources (Third party(ies))			
Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No)			No
If Yes, please provide the following information			
Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

2- Declaration of eligible costs (in €)			
Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.			
If you are a contractor using the additional cost model (AC):			
- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;			
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.			
If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.			
The costs declared should distinguish between direct and indirect costs.			
If necessary, adjustments to previous period(s) may be included where appropriate.			

	Type of Activity											
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		Total (F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	122446,95										122446,95	0,00
Of which subcontracting											0,00	0,00
Indirect costs	24489,39										24489,39	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	146936,34	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	146936,34	0,00

3- Declaration of receipts (in €)			
If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.			
If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.			
If a receipt is not allocated to an activity			

	Type of Activity										Total (F) = (A)+(B)+(C)+(D)+(E)	
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)			
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

RIVERS

4- Declaration of interest generated by the pre-financing (in €)	
<i>To be completed only by the coordinator.</i>	
Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)	No
If yes, please mention the amount (in €)	

5- Request of FP6 Financial contribution (in €)	
For this period, the FP6 Community financial contribution requested is equal to (amount in €)	146936,34

6- Audit certificates	
According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)	
Yes	
If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)	
Yes	
If No, what is the periodicity covered by this(those) audit certificate(s)?	From – To
	01/02/2007 31/07/2010
What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?	
Audit certificate of the contractor (X)	
Legal name of the audit firm	Shanghai Dong-Hua CPAs Firm
Cost of the certificate	1000,00
Audit certificate(s) of the third party(ies) (Ys) (if necessary)	
Y1: Legal name of the audit firm	
Y2: Legal name of the audit firm	
Y3: Legal name of the audit firm	
Y4: Legal name of the audit firm	
Cost of the certificate	
Cost of the certificate	
Cost of the certificate	
Cost of the certificate	
Total (Z) = (X) + (Ys)	1000,00
Reminders: The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium". The required audit certificate(s) is(are) attached to this Financial Statement.	

7-Conversion rates	
Costs incurred in currencies other than EURO shall be reported in EURO.	
Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.	
Contractor	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 2 (Y2)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 3 (Y3)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 4 (Y4)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

8- Contractor's Certificate		
We certify that:		
- the costs declared above are directly related to the resources used to reach the objectives of the project ;		
- the receipts declared above are directly related to the resources used to reach the objectives of the project ;		
- the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ;		
- the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ;		
- the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ;		
- the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ;		
- the above information declared is complete and true ;		
- there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives.		
Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Prof. Xiaoya CHEN	Mr. Irenée ROBIN
	Date	Date
	Signature	Signature

RIVERS

Partner 6 – Centre de Coopération Internationale en Recherche Agronomique pour le Développement

Form C - Model of Financial Statement per Activity (to be filled by each contractor)

Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	RIVERS	Contract n°	SSPE-CT-2006-44405
Contractor's Legal Name	Centre International en Recherche Agronomique pour le Développement		
Legal Type	Non-profit		
Contact Person	Jean-Christophe Glaszmann	Telephone	+33467615922
Telecopy	+33467615659	E-mail	jean-christophe.glaszmann@cirad.fr
Cost model used (AC//FC or FCF)	FCF	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat rate (up to 20% of direct costs, excluding subcontracting)
		Flat rate	20
Period from	01/02/2007	To	31/07/2010

1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No)

No

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

	Type of Activity										Total	
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		(F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	149435,01						23086,07				172521,08	0,00
Of which subcontracting							1682,00				1682,00	0,00
Indirect costs	29887,00						4280,81				34167,81	0,00
Adjustments to previous period(s)	-863,64						-1240,77				-2104,41	0,00
Total costs	178458,37	0,00	0,00	0,00	0,00	0,00	26126,11	0,00	0,00	0,00	204584,48	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

	Type of Activity										Total	
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		(F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

RIVERS

4- Declaration of interest generated by the pre-financing (in €)	
To be completed only by the coordinator.	
Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)	No
If yes, please mention the amount (in €)	

5- Request of FP6 Financial contribution (in €)	
For this period, the FP6 Community financial contribution requested is equal to (amount in €)	115355,30

6- Audit certificates			
According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)			
			Yes
If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)			
			Yes
If No, what is the periodicity covered by this(those) audit certificate(s)?		From – To	01/02/2007 31/07/2010
What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?			
Audit certificate of the contractor (X)			
Legal name of the audit firm	KPMG	Cost of the certificate	1682,00
Audit certificate(s) of the third party(ies) (Ys) (if necessary)			
Y1: Legal name of the audit firm		Cost of the certificate	
Y2: Legal name of the audit firm		Cost of the certificate	
Y3: Legal name of the audit firm		Cost of the certificate	
Y4: Legal name of the audit firm		Cost of the certificate	
Total (Z) = (X) + (Ys)			1682,00
Reminders: The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium". The required audit certificate(s) is(are) attached to this Financial Statement.			

7-Conversion rates	
Costs incurred in currencies other than EURO shall be reported in EURO.	
Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.	
Contractor	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 2 (Y2)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 3 (Y3)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 4 (Y4)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

8- Contractor's Certificate		
We certify that:		
<ul style="list-style-type: none"> - the costs declared above are directly related to the resources used to reach the objectives of the project ; - the receipts declared above are directly related to the resources used to reach the objectives of the project ; - the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ; - the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ; - the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ; - the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ; - the above information declared is complete and true ; - there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives. 		
Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Dr. Emmanuel ALBINA	Jean-Marc DEBOIN
	Date	Date
	Signature	Signature

RIVERS

Partner 7 – Institut Pasteur de Lille

Form C - Model of Financial Statement per Activity (to be filled by each contractor)			
Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	RIVERS	Contract n°	SSPE-CT-2006-44405
Contractor's Legal Name	INSTITUT PASTEUR DE LILLE		
Legal Type	Other		
Contact Person	Michèle VIALETTE	Telephone	+33 320 87 78 53
Telecopy	+33 320 87 72 24	E-mail	michele.vialette@pasteur-lille.fr
Cost model used (AC//FC or FCF)	AC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat rate (up to 20% of direct costs, excluding subcontracting)
		Flat rate	20
Period from	01/02/2007	To	31/07/2010

1- Resources (Third party(ies))	
Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No)	
No	
If Yes, please provide the following information	
Third Party 1 (Y1) Legal Name	Cost model used
Third Party 2 (Y2) Legal Name	Cost model used
Third Party 3 (Y3) Legal Name	Cost model used
Third Party 4 (Y4) Legal Name	Cost model used

2- Declaration of eligible costs (in €)	
Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.	
If you are a contractor using the additional cost model (AC):	
- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;	
- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.	
If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.	
The costs declared should distinguish between direct and indirect costs.	
If necessary, adjustments to previous period(s) may be included where appropriate.	

	Type of Activity										Total	
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		(F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	124254,45						0,00				124254,45	0,00
Of which subcontracting							0,00				0,00	0,00
Indirect costs	24850,88										24850,88	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	149105,33	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	149105,33	0,00

3- Declaration of receipts (in €)	
If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.	
If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.	
If a receipt is not allocated to an activity	

	Type of Activity										Total	
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		(F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

RIVERS

4- Declaration of interest generated by the pre-financing (in €)	
To be completed only by the coordinator.	
Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)	No
If yes, please mention the amount (in €)	

5- Request of FP6 Financial contribution (in €)	
For this period, the FP6 Community financial contribution requested is equal to (amount in €)	149105,33

6- Audit certificates			
According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)			
			Yes
If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)			
			Yes
If No, what is the periodicity covered by this(those) audit certificate(s)?		From – To	01/02/2007 31/07/2010
What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?			
Audit certificate of the contractor (X)			
Legal name of the audit firm	KPMG	Cost of the certificate	500,00
Audit certificate(s) of the third party(ies) (Ys) (if necessary)			
Y1: Legal name of the audit firm		Cost of the certificate	
Y2: Legal name of the audit firm		Cost of the certificate	
Y3: Legal name of the audit firm		Cost of the certificate	
Y4: Legal name of the audit firm		Cost of the certificate	
Total (Z) = (X) + (Ys)			500,00
Reminders: The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium". The required audit certificate(s) is(are) attached to this Financial Statement.			

7-Conversion rates	
Costs incurred in currencies other than EURO shall be reported in EURO.	
Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.	
Contractor	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 2 (Y2)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 3 (Y3)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 4 (Y4)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

8- Contractor's Certificate		
We certify that:		
<ul style="list-style-type: none"> - the costs declared above are directly related to the resources used to reach the objectives of the project ; - the receipts declared above are directly related to the resources used to reach the objectives of the project ; - the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ; - the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ; - the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ; - the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ; - the above information declared is complete and true ; - there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives. 		
Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Michèle VIALETTE	Philippe AMOUYEL
	Date	Date
	Signature	Signature

RIVERS

Partner 8 – Interdisciplinary Centre for Mathematical and Computational Modelling

Form C - Model of Financial Statement per Activity (to be filled by each contractor)			
Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	RIVERS	Contract n°	SSPE-CT-2006-44405
Contractor's Legal Name	WARSAW UNIVERSITY		
Legal Type	Non-profit		
Contact Person	Jan RADOMSKI	Telephone	+48 22 8749100
Telecopy	+48 22 8749115	E-mail	j.radomski@icm.edu.pl
Cost model used (AC/FC or FCF)	AC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat rate (up to 20% of direct costs, excluding subcontracting)
		Flat rate	20
Period from	01/02/2007	To	31/07/2010

1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) **No**

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;

- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

	Type of Activity										Total	
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		(F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	106738,53						4854,31				111592,84	0,00
Of which subcontracting							800,00				800,00	0,00
Indirect costs	21347,71						810,86				22158,57	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	128086,24	0,00	0,00	0,00	0,00	0,00	5665,17	0,00	0,00	0,00	133751,41	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

	Type of Activity										Total	
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		(F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

RIVERS

4- Declaration of interest generated by the pre-financing (in €)	
To be completed only by the coordinator.	
Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)	No
If yes, please mention the amount (in €)	

5- Request of FP6 Financial contribution (in €)	
For this period, the FP6 Community financial contribution requested is equal to (amount in €)	133751,41

6- Audit certificates			
According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)			
			Yes
If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)			
			Yes
If No, what is the periodicity covered by this(those) audit certificate(s)?		From – To	01/02/2007 31/07/2010
What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?			
Audit certificate of the contractor (X)			
Legal name of the audit firm	"Saldo-Kredyt" Sp. Z o.o.	Cost of the certificate	800,00
Audit certificate(s) of the third party(ies) (Ys) (if necessary)			
Y1: Legal name of the audit firm		Cost of the certificate	
Y2: Legal name of the audit firm		Cost of the certificate	
Y3: Legal name of the audit firm		Cost of the certificate	
Y4: Legal name of the audit firm		Cost of the certificate	
Total (Z) = (X) + (Ys)			800,00
Reminders: The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium". The required audit certificate(s) is(are) attached to this Financial Statement.			

7-Conversion rates	
Costs incurred in currencies other than EURO shall be reported in EURO.	
Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.	
Contractor	
- Conversion rate of the Date of incurred actual costs?	No
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	Yes
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the Date of incurred actual costs?	No
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	Yes
Third Party 2 (Y2)	
- Conversion rate of the Date of incurred actual costs?	No
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	Yes
Third Party 3 (Y3)	
- Conversion rate of the Date of incurred actual costs?	No
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	Yes
Third Party 4 (Y4)	
- Conversion rate of the Date of incurred actual costs?	No
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	Yes

8- Contractor's Certificate		
We certify that:		
<ul style="list-style-type: none"> - the costs declared above are directly related to the resources used to reach the objectives of the project ; - the receipts declared above are directly related to the resources used to reach the objectives of the project ; - the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ; - the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ; - the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ; - the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ; - the above information declared is complete and true ; - there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives. 		
Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Jan RADOMSKI	Ewa MIKLASZEWICZ
	Date	Date
	19/08/2010	20/08/2010
	Signature	Signature

RIVERS

Partner 9 – Wuhan Institute of Virology

Form C - Model of Financial Statement per Activity (to be filled by each contractor)			
Type of instrument	Specific Targeted Project	Type of Action (if necessary)	
Project Title (or Acronym)	RIVERS	Contract n°	SSPE-CT-2006-44405
Contractor's Legal Name	Wuhan Institute of Virology, Chinese Academy of Sciences		
Legal Type	Non-Commercial		
Contact Person	Ze Chen	Telephone	+86-27-87198739
Telecopy	+86-27-87198167	E-mail	chenze2005@263.net
Cost model used (AC/FC or FCF)	AC	Indirect costs (Real or Flat Rate of 20% of Direct costs, except subcontracting)	Flat rate (up to 20% of direct costs, excluding subcontracting)
		Flat rate	20
Period from	01/02/2007	To	31/07/2010

1- Resources (Third party(ies))

Are there any resources made available on the basis of a prior agreement with third parties identified in Annex I of the contract? (Yes / No) **No**

If Yes, please provide the following information

Third Party 1 (Y1) Legal Name		Cost model used	
Third Party 2 (Y2) Legal Name		Cost model used	
Third Party 3 (Y3) Legal Name		Cost model used	
Third Party 4 (Y4) Legal Name		Cost model used	

2- Declaration of eligible costs (in €)

Please complete only the activity covered by the relevant instrument (and type of action) indicated above and as mentioned in Article II.25 and/or in Annexes I and III of the contract.

If you are a contractor using the additional cost model (AC):

- indicate only your additional eligible costs, except for Management of the Consortium Activity for which you may indicate your full eligible costs;

- do not declare eligible direct additional costs specifically covered by contributions from third parties as mentioned in Articles II.20 and II.23.a and b of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate your full eligible costs.

The costs declared should distinguish between direct and indirect costs.

If necessary, adjustments to previous period(s) may be included where appropriate.

	Type of Activity										Total	
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		(F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Direct costs	78722,05						347,16				79069,21	0,00
Of which subcontracting							347,16				347,16	0,00
Indirect costs	15744,41						0,00				15744,41	0,00
Adjustments to previous period(s)											0,00	0,00
Total costs	94466,46	0,00	0,00	0,00	0,00	0,00	347,16	0,00	0,00	0,00	94813,62	0,00

3- Declaration of receipts (in €)

If you are a contractor using the additional cost model (AC), indicate only receipts covered by Article II.23.c of the contract.

If you are a contractor using a full cost model (FC/FCF), indicate receipts covered by Article II.23 of the contract.

If a receipt is not allocated to an activity

	Type of Activity										Total	
	Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the Consortium (D)		Other Specific Activities (E)		(F) = (A)+(B)+(C)+(D)+(E)	
	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)	Contractor	Third Party(ies)
Total receipts											0,00	0,00

RIVERS

4- Declaration of interest generated by the pre-financing (in €)	
To be completed only by the coordinator.	
Did the pre-financing (advance) you received by the Commission for this period earn interests? (Yes / No)	No
If yes, please mention the amount (in €)	

5- Request of FP6 Financial contribution (in €)	
For this period, the FP6 Community financial contribution requested is equal to (amount in €)	94813,62

6- Audit certificates			
According to the contract, does this Financial Statement need an audit certificate (or several in case of Third party(ies)) delivered by independent auditor(s)? (Yes / No)			
			Yes
If Yes, does this(those) audit certificate(s) cover only this Financial Statement per Activity? (Yes / No)			
			Yes
If No, what is the periodicity covered by this(those) audit certificate(s)?		From – To	01/02/2007 31/07/2010
What is the total cost of this(those) audit certificate(s) (in €) per independent auditor(s) ?			
Audit certificate of the contractor (X)			
Legal name of the audit firm	Wuhan TianYi Certified Public Accountants Co., Ltd., Hubei, P.R. China	Cost of the certificate	347,16
Audit certificate(s) of the third party(ies) (Ys) (if necessary)			
Y1: Legal name of the audit firm		Cost of the certificate	
Y2: Legal name of the audit firm		Cost of the certificate	
Y3: Legal name of the audit firm		Cost of the certificate	
Y4: Legal name of the audit firm		Cost of the certificate	
Total (Z) = (X) + (Ys)			347,16
Reminders: The cost of an audit certificate is included in the costs declared under the activity "Management of the Consortium". The required audit certificate(s) is(are) attached to this Financial Statement.			

7-Conversion rates	
Costs incurred in currencies other than EURO shall be reported in EURO.	
Please mention the conversion rate used (only one choice is possible) – Please note that the same principle applies for receipts.	
Contractor	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party(ies) (if necessary)	
Third Party 1 (Y1)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 2 (Y2)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 3 (Y3)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No
Third Party 4 (Y4)	
- Conversion rate of the Date of incurred actual costs?	Yes
- Conversion rate of the first day of the first month following the period covered by this Financial Statement?	No

8- Contractor's Certificate		
We certify that:		
<ul style="list-style-type: none"> - the costs declared above are directly related to the resources used to reach the objectives of the project ; - the receipts declared above are directly related to the resources used to reach the objectives of the project ; - the costs declared above fall within the definition of eligible costs specified in Articles II.19, II.20, II.21, II.22 and II.25 of the contract, and, if relevant, in Annex III and Article 9 (special clauses) of the contract ; - the receipts declared above fall within the definition of receipts specified in Article II.23 of the contract ; - the interest generated by the pre-financing declared above falls within the definition of Article II.27 of the contract ; - the necessary adjustments, especially to costs reported in previous Financial Statement(s) per Activity, have been incorporated in the above Statement ; - the above information declared is complete and true ; - there is full supporting documentation to justify the information hereby declared. It will be made available at the request of the Commission and in the event of an audit by the Commission and/or by the Court of Auditors and/or their authorised representatives. 		
Contractor's Stamp	Name of the Person responsible of the work	Name of the duly authorised Financial Officer
	Xinwen CHEN	Zhiyou WANG
	Date	Date
	05/09/2010	05/09/2010
	Signature	Signature

RIVERS

Section 3 – Summary Financial Report

Type of Instrument		STReP	Project Title (or Acronym)		RIVERS								Contract N°		SSPE-CT-2006-44405					
Reporting period number			Final	From (dd/mm/yyyy)	01/02/2007				To (dd/mm/yyyy)				31/07/2010				Page	1/1		
Contractor n°	Organisation Short Name	Cost model used	Eligible costs (in €)	Type of activities										Total eligible costs (F)=(A)+(B)+(C)+(D)+(E)		Receipts		EC contribution		
				Research and Techno-logical Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the consortium (D)		Other Specific Activities (E)								
				Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Maximum	Requested	
1	INSTITUT PASTEUR PARIS	AC	Direct eligible costs	140 721,67	0,00	0,00	0,00	0,00	0,00	0,00	7 600,01	0,00	0,00	0,00	148 321,68	0,00	0,00	0,00	177 746,01	177 746,01
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	0,00	1 200,00	0,00	0,00	0,00	1 200,00	0,00				
			Indirect eligible costs	28 144,33	0,00	0,00	0,00	0,00	0,00	0,00	1 280,01	0,00	0,00	0,00	29 424,34	0,00				
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					
			Total eligible costs	168 866,00	0,00	0,00	0,00	0,00	0,00	8 880,02	0,00	0,00	0,00	177 746,02	0,00					
2	"Cantacuzino " National Institute of Research and Development Microbiology and Immunology	AC	Direct eligible costs	58 321,38	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	58 321,38	0,00	0,00	0,00	68 809,71	68 809,71		
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00	
			Indirect eligible costs	11 664,27	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	11 664,27					0,00	
			Adjustment on previous period(s)	-1 175,94	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	-1 175,94					0,00	
			Total eligible costs	68 809,71	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	68 809,71					0,00	
3	The Stephan Angeloff Institute of Microbiology	AC	Direct eligible costs	78 583,00	0,00	0,00	0,00	0,00	0,00	0,00	13 508,00	0,00	0,00	0,00	92 091,00	0,00	0,00	0,00	110 209,20	110 209,20
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	1 500,00	0,00	0,00	0,00	1 500,00	0,00					
			Indirect eligible costs	15 716,60	0,00	0,00	0,00	0,00	0,00	2 401,60	0,00	0,00	0,00	18 118,20	0,00					
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					
			Total eligible costs	94 299,60	0,00	0,00	0,00	0,00	15 909,60	0,00	0,00	0,00	110 209,20	0,00						
4	INSTITUT PASTEUR DU CAMBODGE	AC	Direct eligible costs	131 487,78	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	131 487,78	0,00	0,00	0,00	157 785,33	157 785,33		
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00	
			Indirect eligible costs	26 297,55	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	26 297,55					0,00	
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00	
			Total eligible costs	157 785,33	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	157 785,33	0,00						
5	SHANGHAI INSTITUTES OF BIOLOGICAL SCIENCES, CHINESE ACADEMY OF SCIENCES	AC	Direct eligible costs	122 446,95	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	122 446,95	0,00	0,00	0,00	146 936,34	146 936,34		
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00	
			Indirect eligible costs	24 489,39	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	24 489,39					0,00	
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00					0,00	
			Total eligible costs	146 936,34	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	146 936,34	0,00						

RIVERS

Type of Instrument		STReP	Project Title (or Acronym)		RIVERS						Contract N°		SSPE-CT-2006-44405						
Reporting period number			Final	From (dd/mm/yyyy)	01/02/2007				To (dd/mm/yyyy)		31/07/2010		Page		1/1				
Contractor n°	Organisation Short Name	Cost model used	Eligible costs (in €)	Type of activities										Total eligible costs (F)=(A)+(B)+(C)+(D)+(E)		Receipts		EC contribution	
				Research and Technological Development / Innovation (A)		Demonstration (B)		Training (C)		Management of the consortium (D)		Other Specific Activities (E)							
				Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Contractor	Third party(ies)	Maximum	Requested
6	Centre International en Recherche Agronomique pour le Développement	FCF	Direct eligible costs	149 435,01	0,00	0,00	0,00	0,00	0,00	23 086,07	0,00	0,00	0,00	172 521,08	0,00	0,00	0,00	115 355,30	115 355,30
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	1 682,00	0,00	0,00	0,00	1 682,00	0,00				
			Indirect eligible costs	29 887,00	0,00	0,00	0,00	0,00	0,00	4 280,81	0,00	0,00	0,00	34 167,81	0,00				
			Adjustment on previous period(s)	-863,64	0,00	0,00	0,00	0,00	-1 240,77	0,00	0,00	0,00	-2 104,41	0,00					
			Total eligible costs	178 458,37	0,00	0,00	0,00	0,00	0,00	26 126,11	0,00	0,00	0,00	204 584,48	0,00				
7	INSTITUT PASTEUR DE LILLE	AC	Direct eligible costs	124 254,45	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	124 254,45	0,00	0,00	0,00	149 105,33	149 105,33
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00				
			Indirect eligible costs	24 850,88	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	24 850,88	0,00				
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00				
			Total eligible costs	149 105,33	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	149 105,33	0,00				
8	WARSAW UNIVERSITY	AC	Direct eligible costs	106 738,53	0,00	0,00	0,00	0,00	0,00	4 854,31	0,00	0,00	0,00	111 592,84	0,00	0,00	0,00	133 751,41	133 751,41
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	800,00	0,00	0,00	0,00	800,00	0,00				
			Indirect eligible costs	21 347,71	0,00	0,00	0,00	0,00	0,00	810,86	0,00	0,00	0,00	22 158,57	0,00				
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00				
			Total eligible costs	128 086,24	0,00	0,00	0,00	0,00	0,00	5 665,17	0,00	0,00	0,00	133 751,41	0,00				
9	Wuhan Institute of Virology, Chinese Academy of Sciences	AC	Direct eligible costs	78 722,05	0,00	0,00	0,00	0,00	0,00	347,16	0,00	0,00	0,00	79 069,21	0,00	0,00	0,00	94 813,62	94 813,62
			of which direct eligible costs of subcontracting	0,00	0,00	0,00	0,00	0,00	0,00	347,16	0,00	0,00	0,00	347,16	0,00				
			Indirect eligible costs	15 744,41	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	15 744,41	0,00				
			Adjustment on previous period(s)	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00	0,00				
			Total eligible costs	94 466,46	0,00	0,00	0,00	0,00	0,00	347,16	0,00	0,00	0,00	94 813,62	0,00				
Total eligible costs				1 186 813,38	0,00	0,00	0,00	0,00	0,00	56 928,06	0,00	0,00	0,00	1 243 741,44	0,00	0,00	0,00	1 154 512,24	1 154 512,24
				1 186 813,38		0,00		0,00		0,00		0,00		1 243 741,44		0,00			
Maximum calculated EC contribution for the reporting period (in € without taking into account receipts)				1 097 584,19	0,00	0,00	0,00	0,00	0,00	56 928,05	0,00	0,00	0,00						
				1 097 584,19		0,00		0,00		0,00		0,00		1 154 512,24					
Amount of the financial interests generated by the prefinancing													1 372,68						
Requested EC contribution for the reporting period (in €)													1 154 512,24						