



MEMPEPACROSS

Membrane-active peptides across disciplines and continents: An integrated approach to find new strategies to fight bacteria, dengue virus and neurodegeneration.

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Membrane-active peptides across disciplines and continents: An integrated approach to find new strategies to fight bacteria, dengue virus and neurodegeneration.

International Research Staff Exchange Scheme

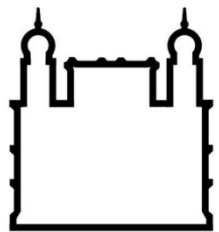
Call: FP7-PEOPLE-2009-IRSES



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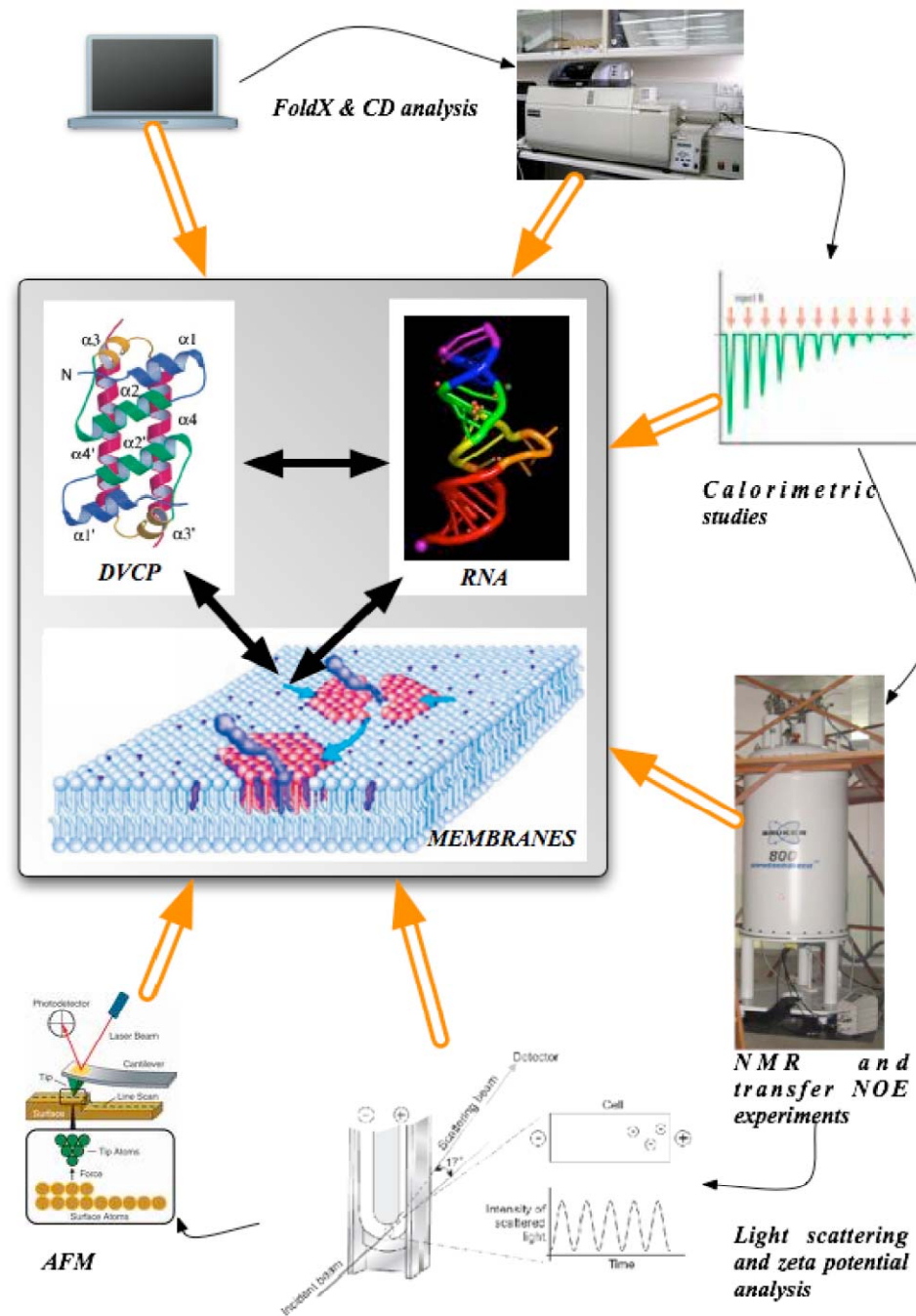
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Work packages

Work package n°	Work package title	<i>Beneficiary/Partner</i> organisation short name	Start month	End month
1	Biomembranes role on dengue virus assembly	IMM, UPF, UFRJ	1	36
2	Antimicrobial and cell-penetrating peptides	IMM, UPF, UFRJ, UFC	1	36
3	Biomembranes role on neurodegenerative diseases	IMM, UPF, UFRJ	13	48
4	Science communication and management	IMM, FIOCRUZ	13	48

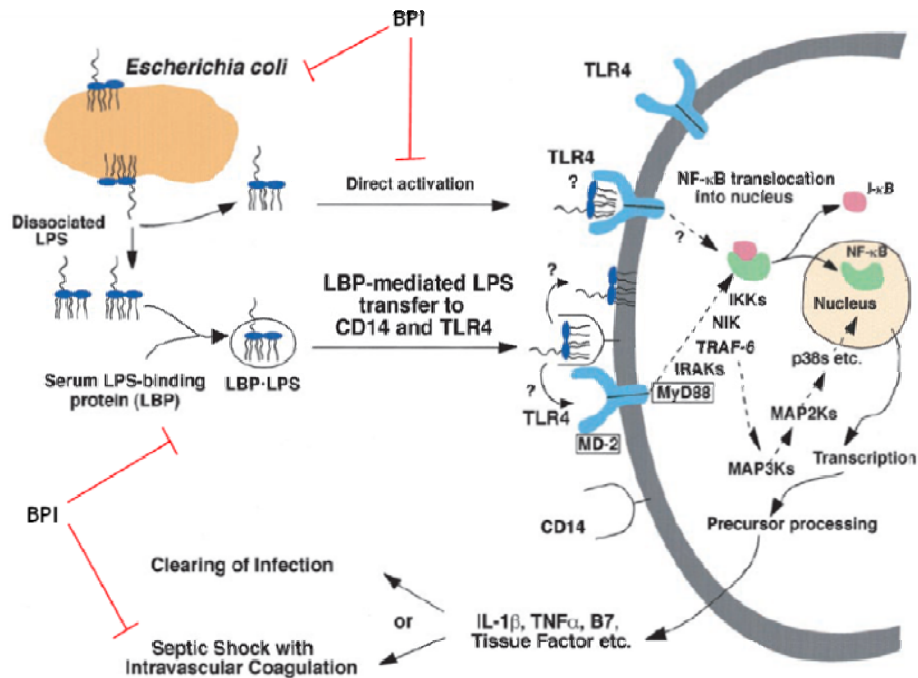
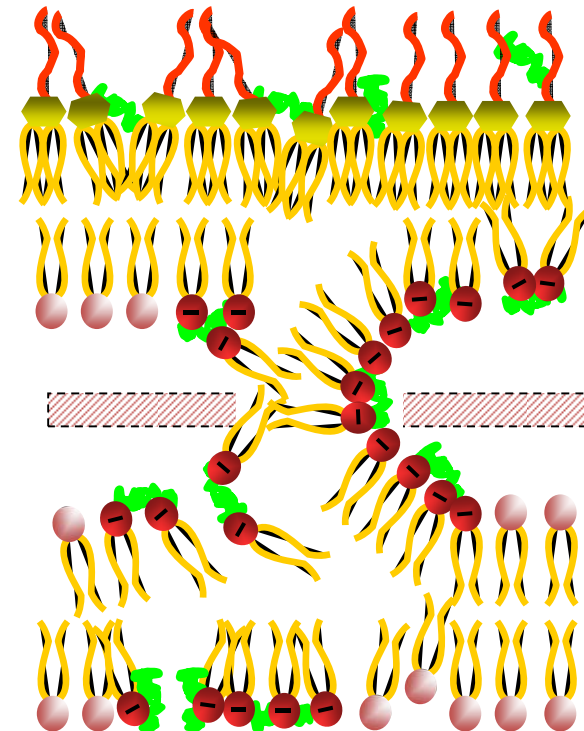
Biomembranes role on dengue virus assembly

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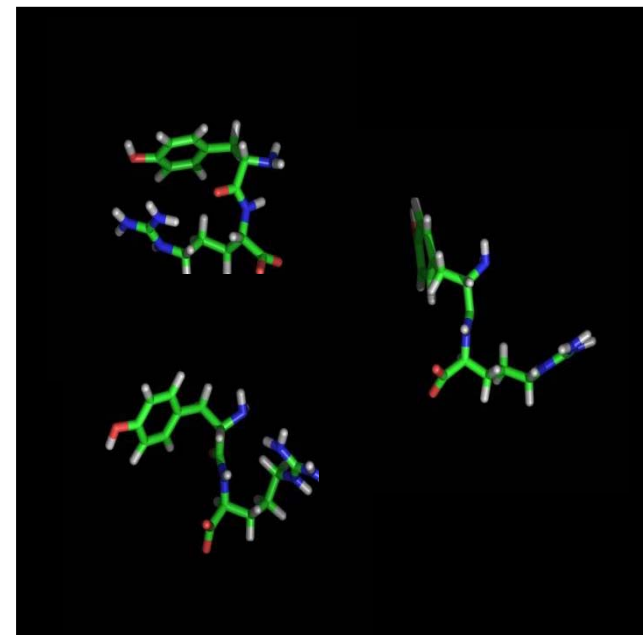
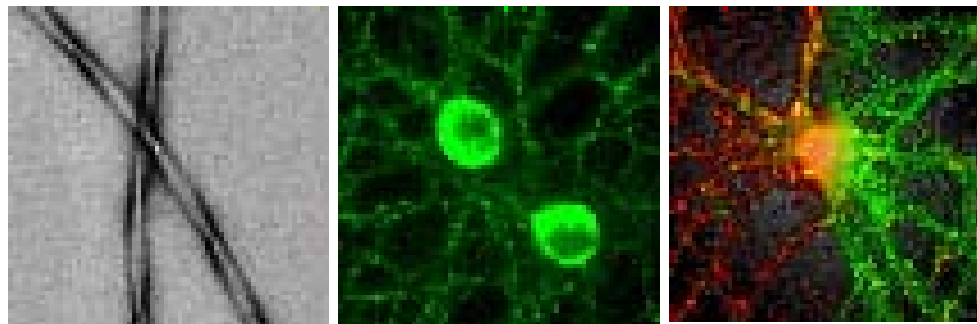
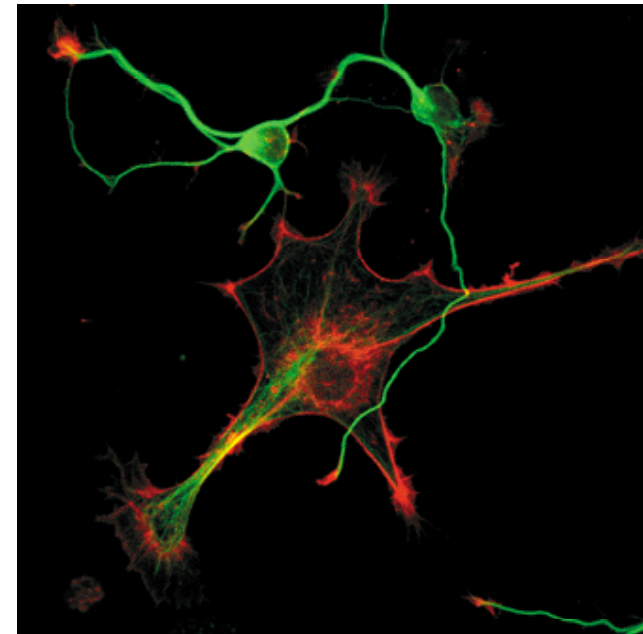
Antimicrobial and cell-penetrating peptides

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Biomembranes role on neurodegenerative diseases

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Science communication and management

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Workpackage	Year 1												Year 2												Year 3												Year 4																																																											
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48																																																
WP1 Dengue	IMM, UPF, UFRJ												M1																								M2																																																											
WP2 AMPs and CPPs	IMM, UPF, UFRJ, UFC												M4												M5												M3												M6																																															
WP3 Neurodegeneration													IMM, UPF, UFRJ																								M7												M8												M9																																			
WP4 Communication													IMM, FIOCRUZ												M10												M12												M13												M14												M11												M15											

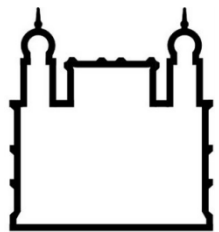
List and schedule of milestones				
Milestone n°.	Milestone name	WPs n°.	Lead Beneficiary/ Partner organisation short name	Delivery month
1	Dengue virus assembly mechanism	1	UFRJ	18
2	Dengue virus assembly mechanism	1	IMM	36
3	Crotamine-derived peptides	2	UPF	36
4	rBPI ₂₁ -membrane interaction	2	IMM	18
5	Plant defensins	2	UFRJ	30
6	Cnidaria membrane active-peptides library	2	UFC	36
7	Kyotorphin inhibitor	3	IMM	42
8	TTR aggregates	3	UFRJ	48
9	APP fragments	3	UFRJ	48
10	Media training for scientists	4	FIOCRUZ	24
11	Management/Fundraising training	4	FIOCRUZ	48
12	Communication Programmes on Society Meetings	4	FIOCRUZ	30
13	Workshop for teachers	4	IMM	30
14	Workshop for journalists	4	IMM	42
15	Communication Programmes on Society Meetings	4	IMM	48



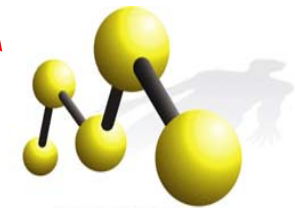
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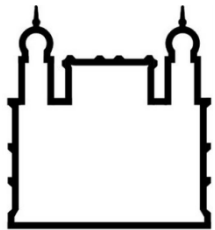
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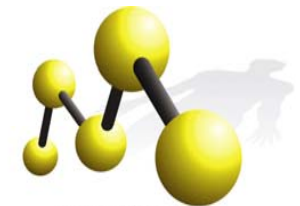
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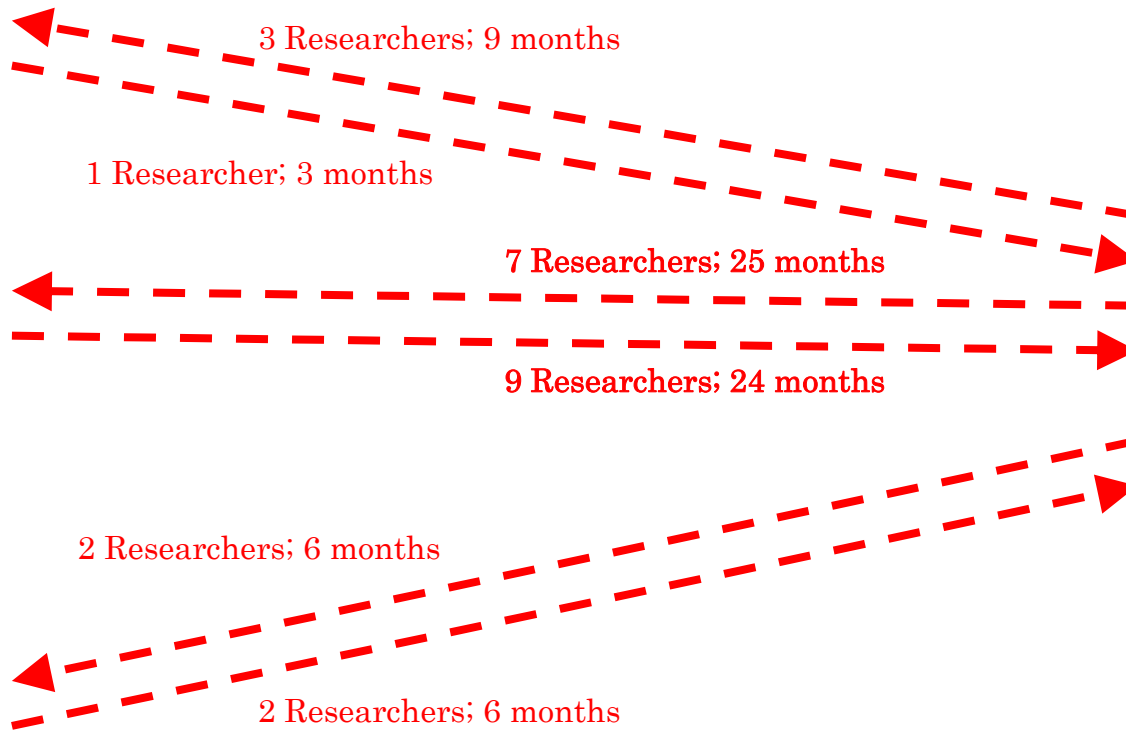


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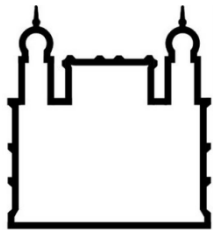




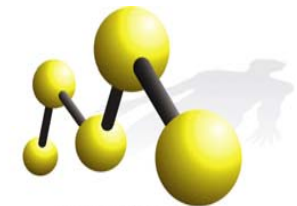
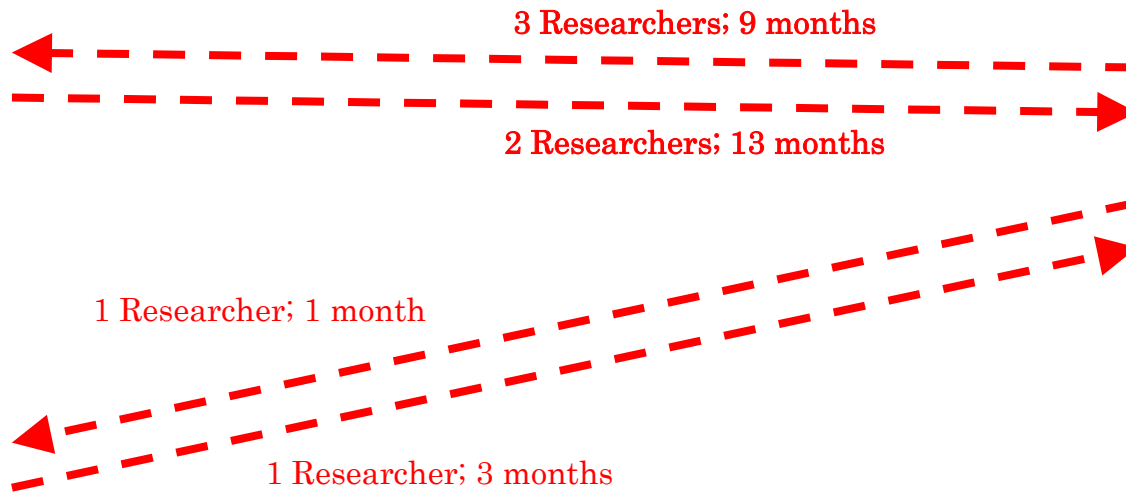
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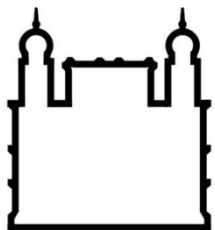
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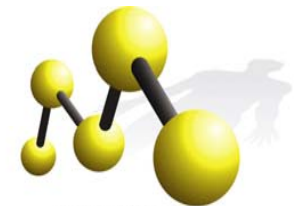


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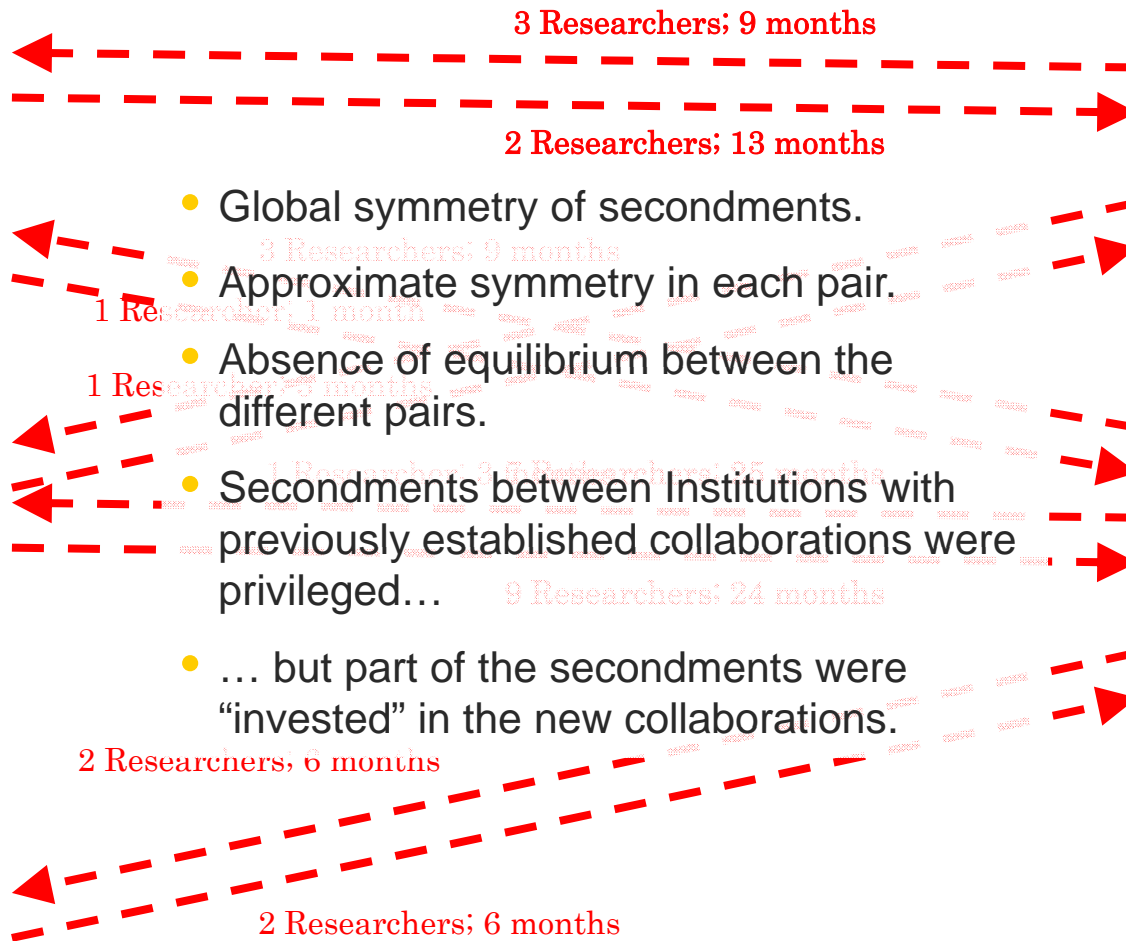


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Transfer of Knowledge

Seconded researcher	Home Institution	Host Institution(s)	Knowledge transferred to the host institution(s)	Knowledge brought back to the home institution
Andrea Da Poian	UFRJ	IMM	Dengue virus biochemistry	DLS, zeta potential
Beatriz de la Torre	UPF	UFC	Peptide chemistry	Cnidaria peptides
Carolina Braga	UFRJ	IMM	α -synuclein	Prion proteins
Carolina Spiegel	FIOCRUZ	IMM	Workshops with teachers	Workshops with journalists
David Andreu	UPF	UFRJ/UFC	Peptide chemistry	Natural occurring CPPs
Debora Foguel	UFRJ	IMM	Amyloidosis	Kyotorphin
Eleonora Kurtenbach	UFRJ	IMM	Plant defensins	Peptide-lipid interactions
Fernando Palhano	UFRJ	IMM	Transthyretin	DLS
Francisco Sousa	UFRJ	UPF	DVCP	Peptide synthesis
Gandhi Rádis-Baptista	UFC	IMM/UPF	Crotamine, Cnidaria peptides	Peptide-lipid interactions
Henri Franquelim	IMM	UFRJ	Planar lipid bilayers	FCS
Iranáia Miranda	UFRJ	IMM	Lipid droplets isolation	Optical spectroscopies
Ivo Martins	IMM	UFRJ	DLS and zeta potential	NMR, ITC, DSC
Marco Domingues	IMM	UFRJ	rBPI ₂₁	ITC, DSC
Margarida Rodrigues	IMM	UFC	Fluorescence spectroscopy	CPPs, Cnidaria peptides
Margarida Trindade	IMM	FIOCRUZ	Science management	Workshops with teachers
Marta Agostinho	IMM	FIOCRUZ	Workshops with journalists	Low-income students progr.
Marta Ribeiro	IMM	UFRJ	Kyotorphin	Neurodegenerative diseases
Maurício Luz	FIOCRUZ	IMM	Low-income students progr.	Science management
Miguel Castanho	IMM	UFRJ/UFC	Peptide-lipid interactions	Neurodegenerative diseases
Nuno Santos	IMM	UFRJ/UFC	Peptide-lipid interactions	Natural occurring AMPs
R. Gutiérrez-Gallego	UPF	UFC	Peptide chemistry	Cnidaria peptides
R. Mohana-Borges	UFRJ	IMM	Dengue virus biochemistry	Membrane biophysics
Sérgio Ferreira	UFRJ	IMM	Neurodegenerative diseases	Kyotorphin
Sónia Gonçalves	IMM	UFRJ	Peptide-lipid interactions	Plant defensins

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Experienced researchers: Andrea Da Poian, Beatriz de la Torre, David Andreu, Debora Foguel, Eleonora Kurtenbach, Fernando Palhano, Gandhi Rádis-Baptista, Ivo Martins, Margarida Trindade, Marta Agostinho, Maurício Luz, Miguel Castanho, Nuno Santos, Ricardo Gutiérrez-Gallego, Ronaldo Mohana-Borges, Sérgio Ferreira and Sónia Gonçalves.

Early stage researchers: Carolina Braga, Carolina Spiegel, Francisco Sousa, Henri Franquelim, Iranaia Miranda, Marco Domingues, Margarida Rodrigues and Marta Ribeiro.

Margarida Rodrigues	IMM	UFC	Fluorescence spectroscopy	CPPs, Cnidaria peptides
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Sónia Gonçalves	IMM	UFRJ	Peptide-lipid interactions	Plant defensins

Impact

B 4.1 Relevance of the proposed partnership to the area of collaboration and for the European Research Area



COMMISSION OF THE EUROPEAN COMMUNITIES

Brussels, 18 January 2000
COM (2000) 6

**COMMUNICATION FROM THE COMMISSION TO THE COUNCIL, THE
EUROPEAN PARLIAMENT, THE ECONOMIC AND SOCIAL COMMITTEE AND
THE COMMITTEE OF THE REGIONS**

Towards a European research area

B 4.2 Potential to develop lasting collaboration with the eligible *Third country* partners

Evaluation

Criteria	Weight	Threshold
<i>Quality of the Exchange Programme</i>	25%	0.0 / 5.0
<i>Transfer of Knowledge</i>	30%	3.0 / 5.0
<i>Implementation</i>	15%	0.0 / 5.0
<i>Impact</i>	30%	3.0 / 5.0
TOTAL SCORE	100%	70 / 100

Final considerations

- Strengthening of International cooperation.
- Strengthening, speeding and extending existing collaborations.
- Perfect scaffold for the transfer of knowledge... and people.
- Good Research is not limited to the USA and Europe.
- Justification for Community contribution towards third country partner costs.
- The importance of Institutional support.
- The importance of previous contact with European applications.
- Finish early what do not depends solely on you!
- This action would be improved if a small component of secondments between the European beneficiaries would be allowed.