

Karine ROBBE, PhD

Objective: Position in Biology and Bioinformatics

Born the 4th November 1976, 27 years
French, single
karine.robbe@laposte.net

36 bis, rue du Maréchal Maunoury
78700 Conflans Sainte Honorine France
Phone: 00 33 (0) 1 39 72 58 16

Education

- Jan - Apr 2004* **Pasteur Institute Bioinformatics Course** (C. Letondal), Paris VII University
- Oct 1999 - Dec 2003* **PhD in Molecular Biology of the Cell, speciality: Biochemistry**
- **EMBO/FEBS advanced course in** « Molecular mechanisms in signal transduction »
Spetses, Greece August 2001
- 1996 - 1999* **Master of Genetics** PARIS VII University
- **DEA Molecular Biology of the Cell**, Paris XI Orsay University (M. Jacquet)
- **Pasteur & Curie Institutes course of Cell Biology** (A. Dautry) April-May 1999
- **Master specialities** : human genetics, quantitative genetics, evolution genetics
- 1994 - 1996* **DEUG in Life Sciences** Cergy-Pontoise University

Experience

- Jan 2004 - Apr 2004* **Research Assistant CNRS**, Pasteur Institute, Paris
Prediction of proteins function, supervisor: **Thierry Rose**
Keywords: graph, protein-protein interaction databases
Skills: conception, (Bio)Python, XML, algorithmic, graph search, HTTP/CGI, GML output, parallel Blast.
- Oct 1999 - Dec 2003* **PhD Candidate**, Pharmacology Institute IPMC CNRS, Sophia Antipolis
Activation Mechanism of Rac1, G protein, of Rho family, by Tiam1 exchange factor at the surface of the lipidic membrane. Directors: **Dr. Bruno Antonny**, **Dr. Pierre Chardin**
Collaboration with **SERVIER pharmaceuticals** (1999-2002)
Keywords: signal transduction, G protein regulation, tumoral invasion
Skills: lipid-protein interaction, liposome preparation by reverse-phase or lipidic film and extrusion, G protein nucleotide binding and hydrolysis, lipopeptide preparation and purification, G protein glucosylation by bacterial toxin, protein production and purification in eukaryote cells, cell culture, Western-Blot, mass spectrometry.
- Nov 1998 - Sept 1999* **MSc Traineeship**, Jacques Monod Institute, Epigenetic and Recombination, Paris
Histone deacetylase cloning in *A. immerses*, supervisor: **Pr. J.L. Rossignol**
Keywords: regulation of gene expression, methylation, histone acetylation
Skills: use of genomic database, new gene cloning, molecular biology, genetic crossing
- March - Aug 1998* **ERASMUS Traineeship**, Leicester University, Mammalian Genetics laboratory
Polymorphism in repeated sequences. Supervisor: **Sir A. Jeffreys**
Keywords: genetic fingerprints, diabetes, IDDM, germinal mutations
Skills: MVR-PCR, SM-PCR, DNA extraction
- Aug - Sept 1997* **Traineeship**, Paris Medicine University, CNRS UPR 37
DNA structures on the interferon-beta promoter. Supervisor: **Pr. J. Doly**
Keywords: regulation of β - interferon expression
Skills: molecular biology, DNA gel-shift assay, cell culture
- June - July 1996* **Traineeship**, "Collège de France", CNRS UPR 9054, Paris
Supervisor: Dr S. Nicolaidis
Keywords: obesity, nutrition, leptin, rat
Skills: radio-immunological assays, dissection, brain histology
- July 1995* **Traineeship**, ZENECA Pharmaceuticals ICI, Macclesfield, England
Supervisor: Dr. Henessey
Skills: high through output screening for gyrase inhibitor, bacteriology

Computer Science and Bioinformatics

Operating Systems: Linux, Windows, MacOS

Languages: (Bio)Python, C, (Bio)Perl

Algorithmic: sorting, dynamic programming, greedy and local algorithms, graphs

Computer Interface participative conception, design workshop

Web: dynamic XHTML, CGI, web site conception, XML/DTD, databases (Sybase), Tkinter (Python)

Bioinformatics: biologic databases and web programs, sequences comparison, phylogenetic tree, pattern searching, biostatistics, genetic disequilibrium and Lodscore

Office (Canvas, Word, Excel, End-Note, Power Point)

Publications and Congress

Mesmin B *, [Robbe K](#) *, Geny B, Luton F, Popoff M, Antonny B. A phosphatidylserine-binding site in the cytosolic fragment of *Clostridium sordelii* lethal toxin facilitates glucosylation of membrane-bound Rac. Submitted. *These authors contributed equally to this work

[Robbe K](#), Antonny B. Liposomes in the study of GDP/GTP cycle of Arf and related small G proteins. *Methods Enzymol.* 2003;372:151-66.

[Robbe K](#), Otto-Bruc A, Chardin P, Antonny B. Dissociation of GDI and membrane translocation are required for efficient activation of Rac by the DH-PH region of Tiam. *J Biol Chem.* 2003 Feb 14;278(7):4756-62.

[Robbe K](#), Bonnefoy E. Non-B-DNA structures on the interferon-beta promoter? *Biochimie.* 1998 Aug-Sep;80(8-9):665-71.

RhoGTPases and Immunity, Roscoff 10th-13th May 2003 (Poster)

European Congress in Cell Biology ELSO, Nice 29th June-3 July 2002 (Poster)

Congress in Biology computer Sciences JOBIM (Biology, Mathematics), St Malo 10th-12th June 2002

French Congress on G proteins, 7th-8th November 2000 and 27th-29th March 2002 (Poster)

EMBO/FEBS Advanced course Spetses, Greece, 18th-31st August 2001 (Poster)

Epigenetic and Recombination Congress Curie Institute, Paris, September 2000

Other Skills and Interests

Scientific Communication Course (Sophia-Antipolis, 2002, UNSA University PhD course)

Scientific English (Master course), Cambridge First Certificate in English (Dec 1995)

European First Aid Certificate, French Red Cross (Oct 1997)

Teaching course (June 1996)

BIOTECHNO Conferences Organisation: Paris in 1997, 1999 with **BIODOCS** and Nice in 2000 with **AJC06**. Member of the CA **BIOTECH Network** in 2000/2001

Member of “**Coup de pousse**” society from 2001 to 2002 (high school homework support)

BIOAVENIR congress talk in 2000 (for students doing a Biology first degree)

Téléthon’96 and Téléthon’97 Organisation initiated by BGA society and realised in collaboration with AFM society

President of « Biologie et Génétique Appliquée » (BGA) society in 1997

Sports: hiking, climbing, swimming, canyoning, via ferrata, snowboard

Leisures: drawing (pastels), pastry making, numeric photography