

Jacqueline CHERFILS

Nationality : French

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EDUCATION

1978-1982. Bs and Ms in Mathematics (Classes Préparatoires aux Grandes Ecoles, University of Marseille, University Paris VI, France)

1984-1987. PhD in Biophysics, Université Paris XI, France.

1998. Habilitation à Diriger des Recherches. University Paris XI, France

CURRENT POSITION

2015-present. CNRS Research Director

2015-present. Principal investigator, « Structural Biology of Small GTPases », CNRS and Ecole Normale Supérieure Paris-Saclay, Cachan, France

PREVIOUS POSITIONS

1998-2014. CNRS Research Director and PI, Gif-sur-Yvette, France

1991-1998. CNRS Research Assistant, Gif-sur-Yvette, France

1990. Visiting Scientist with Profs M. Karplus and W.Lipscomb, Harvard Department of Chemistry, Cambridge, USA

1989-1991. CNRS Research Assistant, Université Paris-Sud CNRS, Orsay, France

1983. Researcher in tomographic image analysis, Gustave Roussy Cancer Hospital, Paris

INSTITUTIONAL RESPONSIBILITIES

2005-2014. Chair of the Department of Enzymology and Structural Biochemistry, CNRS, Gif-sur-Yvette

2007-2010. Head of the Structural Biology and Proteomics Facility, CNRS, Gif-sur-Yvette

2006-2012 . Director of the National Research Consortium « GEFs as therapeutic targets »

AWARDS

2016. Visiting Miller Professor, University of California, Berkeley, USA (host : Pr. John Kuriyan)

2011. Chevalier de l'Ordre National du Mérite (awarded by the French Research Minister)

MENTORING

15 PhD students and 22 Post-doctoral fellows

ORGANISATION OF INTERNATIONAL SCIENTIFIC MEETINGS (last 10 years)

2013. Conference of the French Association of Crystallography, Bordeaux, France. Chair

2009. European GTPase Meeting/Conférences Jacques Monod, Aussois, France. 17-21 June. Chair

2007. FASEB Meeting « Arf GTPases », Il Ciocco, Italy. 22-27 Jun. Chair

MEMBERSHIP OF SCIENTIFIC SOCIETIES

2016- present. Executive Committee of the European Biophysical Societies Association

2016- present. Executive Board of the French Biophysics Society

2010-2013. President of the French Association of Crystallography

COMMISSIONS OF TRUST

2015- present. Scientific Council of Ecole Normale Supérieure Paris-Saclay

2015- present. Research Council of Faculty of Pharmacy, University Paris-Saclay

2000-2005. CNRS recrutement and research evaluation committee (Comité National)

2000-2010. Scientific Board of Conferences Jacques Monod, CNRS

2009-2014. Review board of Association pour la Recherche contre le Cancer

SELECTED PUBLICATIONS

1. Karandur D., Nawrotek A., Kuriyan J., Cherfils C. Multiple interactions between an Arf/GEF complex and charged lipids determine activation kinetics on the membrane (2017) *PNAS*, 2017
2. V.Vives, G. Cres, C. Richard, L. Malaval, M. Busson, Y. Ferrandez, A.-G. Planson, M. Zeghouf, J. Cherfils and A. Blangy. Pharmacological inhibition of Rac1 activation by Dock5, a potential novel treatment against osteolytic diseases that preserves bone formation. (2015) *Nature Communication*, 6:6218.
3. Folly-Klan M, Alix E, Stalder D, Ray P, Duarte LV, Delprato A, Zeghouf M, Antony B, Campanacci V, Roy CR, Cherfils J. A Novel Membrane Sensor Controls the Localization and ArfGEF Activity of Bacterial RalF. *PLoS Pathog.* (2013) 9(11):e1003747.
4. D. Padovani, M. Folly-Klan, A. Labarde, S. Boulakirba, V. Campanacci, M. Franco, M. Zeghouf, J. Cherfils. EFA6 controls Arf1 and Arf6 activation through a negative feedback loop. *PNAS* (2014) 111(34):12378-83
5. Aizel K, Biou V, Navaza J, Duarte LV, Campanacci V, Cherfils J* and Zeghouf M* Integrated conformational and lipid-sensing regulation of endosomal Arf-GEF BRAG2. (2013) *PLoS Biol.* 2013 Sep;11(9):e1001652 *Subject of Editor's pick in the same issue.*
6. V. Campanacci, S. Mukherjee, C. R. Roy, J. Cherfils The mechanism of phosphocholine transfer by AnkX, an ankyrin repeats and FIC domain-containing *Legionella* effector. *EMBO J.* (2013) 32:1469-77.
7. J. Cherfils* and M. Zeghouf. Regulation of small GTPases by GEFs, GAPs and GDIs. *Physiol Rev.* (2013) 93:269-309.
8. Viaud, J. , M. Zeghouf#, H. Barelli, J.C. Zeeh, A. Padilla, B. Guibert, P. Chardin, C.A. Royer, J. Cherfils*, and A. Chavanieu, Structure-based discovery of an inhibitor of Arf activation by Sec7 domains through targeting of protein-protein complexes. *PNAS*, 2007. 104(25): p. 10370-5.
9. Renault, L., B. Guibert, and J. Cherfils, Structural snapshots of the mechanism and inhibition of a guanine nucleotide exchange factor. *Nature*, 2003. 426(6966): p. 525-30.
10. Cherfils, J.*, J. Ménétrey, M. Mathieu, G. Le Bras, S. Robineau, S. Béraud-Dufour, B. Antony, and P. Chardin, Structure of the Sec7 domain of the Arf exchange factor ARNO. *Nature*, 1998. 392(6671): p. 101-5.

(* : correspondance)

SELECTED INVITED PRESENTATIONS (last 10 years)

1. Biophysical Society meeting, San Francisco 17-21 Feb 2018
2. FASEB SRC on "Small GTPases in Membrane Processes". Leesburg (USA) Sep 23-28 2018
3. ETOX18 - European Workshop on Bacterial Protein Toxins, Paris, 26-30 Jun 2017
4. Gordon Research Conference on "Proteins as Organizers from Atoms to cells", Holderness NH, USA 18-23 Jun 2017
5. International Symposium on Bioorganic Chemistry (ISBOC-10), Pune, India. 11-15 Jan 2015
6. Congress of the International Union of Crystallography, Montréal, Canada 5-12 Aug 2014
7. Cold Spring Harbour Conference on "Small GTPases: Mechanisms and Applications" Suzhou, China. 22-26 Sep 2014
8. EMBO Workshop on Protein-Protein interactions, Roscoff, 6-9 Jun 2012
9. European Crystallographic Association Conference, Bergen, Norway. 10-13 Aug 2012 (opening keynote)
10. FASEB SRC conference "Arf family GTPases", Il Ciocco, Italie. 22-27 Jun 2007