



## CV Sophie MOUILLET-RICHARD

Born: September 14, 1971

Married, two children

Nationality: French

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### **EDUCATION :**

1989 High School Diploma (Baccalauréat)

1989-1991 Preparatory classes for French "Grandes Ecoles"

1991-1994 Ecole Polytechnique - Diplôme d'Ingénieur Polytechnicien (Masters in Engineering)

1994-1996 Ecole du Génie Rural des Eaux et des Forêts – Post-graduate training

1995-1996 University Paris Sud - Masters degree in Cell Biology (Molecular Biology of the Cell, with honors)

2001 Ecole Polytechnique, PhD in Cell Biology, with honors (Thesis director: Odile Kellermann)

2007 Accreditation to supervise research (Habilitation à diriger des recherches), Université Pierre et Marie Curie Paris 6

### **CURRENT POSITION**

2021- deputy director team "Personalized medicine, pharmacogenomics, therapeutic optimization" (45 people) and deputy director "Pharmacogenomics and therapeutic optimization" group within the team (20 people) (Dir : P. Laurent-Puig), INSERM 1138, Centre de Recherche des Cordeliers.

### **PROFESSIONAL EXPERIENCE**

1999-2004: Project Manager, French Ministry of Agriculture, Food Safety Department, Paris, France

2004-2007: Research scientist, Centre National de la Recherche Scientifique (Supervisor: Odile Kellermann), Villejuif, France

2008-2013: Principal Investigator, INSERM Unit 747, University Paris Descartes, France

2014-2016: team leader, INSERM Unit 1124, University Paris Descartes

2017-2021: deputy director "Pharmacogenomics and therapeutic optimization" group (20 people), team "Personalized medicine, pharmacogenomics, therapeutic optimization" (Dir : P. Laurent-Puig), INSERM 1138, Centre de Recherche des Cordeliers

### **EDITION AND EXPERTISE**

2004-present: Expert for the French Committee on Transmissible Spongiform Encephalopathies (ANSES, French Food Safety Agency)

2010-2011: Managing editor for Frontiers in Bioscience (6 reviews).

2014 Topic Editor for Frontiers in Cellular and Developmental Biology "Promiscuous functions of the prion protein". eBook of 14 reviews

Associate Editor for PLoS One (since 2011)

Member of the Editorial Board of Scientific Reports (Nature Publishing Group) (since 2015)

### **PUBLICATIONS**

60 publications, 35 original research articles (8 as first or co-first, 9 as last or co-last author), 14 review articles

Total number of citation Web of knowledge 2,376 and Google scholar 3,414, H index 24 (Web of knowledge) 27 (Google scholar)

### **AWARDS**

2001 Prize for best PhD in Biology, Ecole Polytechnique.

### **COMPETENCE**

Prion biology, cell signalling, cell biology, microRNA, stem cell biology, cancer.

## **10 MAJOR PUBLICATIONS**

GHAZI A, LE CORRE D, PILATI C, TAIEB J, APARICIO T, DIDELOT A, DEDHAR S, MULOT C, LE MALICOT K, DJOUADI F, DE REYNIES A, LAUNAY J-M, LAURENT-PUIG P & MOUILLET-RICHARD S (2021): Prognostic value of the PrP<sup>C</sup>-ILK-IDO1 axis in the mesenchymal colorectal cancer subtype. **Oncoimmunology** 10: 1940674.

BOUFROURA F, TOMKIEWICZ-RAULET C, POINDESSOUS V, CASTILLE J, VILOTTE JL, JEAN BASTIN J, MOUILLET-RICHARD S\* & DJOUADI F\* (2021): Cellular prion protein dysfunction in a prototypical inherited metabolic myopathy **Cell Mol Life Sci** 78 : 2157-2167 (\*co-last authors)

BIGNON Y, POINDESSOUS V, LAZARETH H, PASSET B, VILOTTE JL, DJOUADI F, MOUILLET-RICHARD S\* & PALLET N (2020): The cellular prion protein is a stress protein secreted by renal tubular cells and a urinary marker of kidney injury **Cell Death and Disease** 11:243. (\* co-last authors)

LE CORRE D, GHAZI A, BALOGOUN R, PILATI C, APARICIO T, MARTIN-LANNERÉE S., MARISA L., DJOUADI F., POINDESSOUS V., CROZET C., EMILE J.F., MULOT C., LE MALICOT K., BOIGE V., BLONS H., DE REYNIES A., TAIEB J., GHIRINGHELLI F., BENNOUNA J., LAUNAY J.M., LAURENT-PUIG P. & MOUILLET-RICHARD S. (2019): The Cellular Prion Protein Controls the Mesenchymal-like Molecular Subtype and Predicts Disease Outcome in Colorectal Cancer. **EBiomedicine** 46:94-104.

HIRSCH T.Z., MARTIN-LANNEREE S., REINE F., HERNANDEZ-RAPP J., HERZOG L., DRON M., PRIVAT N., PASSET B., HALLIEZ S., VILLA-DIAZ A., LACROUX C., KLEIN V., HAĀK S., ANDRÉOLETTI O., TORRES J.M., VILOTTE J.L., BÉRINGUE V. & MOUILLET-RICHARD S (2019): Epigenetic Control of the Notch and Eph Signalling Pathways by the Prion Protein: Implications for Prion Diseases. **Mol. Neurobiol.** 56: 2159-2173.

MARTIN-LANNEREE S, HALLIEZ S, HIRSCH T.Z., HERNANDEZ-RAPP J, PASSET B, TOMKIEWICZ C., VILLA-DIAZ A. TORRES J-M, LAUNAY JM, BERINGUE V, VILOTTE JL & MOUILLET-RICHARD S (2017): The cellular prion protein controls Notch signalling in neural stem / progenitor cells. **Stem Cells** 35: 754-765.

PIETRI M., DAKOWSKI C., HANNAOUI S., ALLEAUME-BUTAUX A., HERNANDEZ-RAPP J., RAGAGNIN A., MOUILLET-RICHARD S., HAİK S., BAILLY Y., PEYRIN, J.M., LAUNAY J.M., KELLERMANN O. & SCHNEIDER B. (2013): PDK1 decreases TACE-mediated alpha-secretase activity and promotes disease progression in prion and Alzheimer's diseases. **Nature Med.** 19: 1124-1131.

Paper highlighted in:

- Nature Medecine (2013) News and views. F Checlerc. Alzheimer's and prion diseases: PDK1 at the crossroads. 19: 1088-1090
- Nature Reviews Neurology (2013) Research highlights. H Wood. PDK1 - a common therapeutic target for AD and prion disease? 9: 543.
- Nature Reviews Drug Discovery (2013) Research highlights. M Hoyos Flight. New kinase targets for Alzheimer's disease. 12: 739.

BAUDRY A., MOUILLET-RICHARD S., SCHNEIDER B., LAUNAY J-M. & KELLERMANN O. (2010): MiR-16 targets the serotonin transporter: a new facet for adaptative responses to antidepressant, **Science**, 329,1537-1541.

Paper highlighted in:

- Nature Reviews Neuroscience (2010) Research highlights. S. Lewis. The enigma of Prozac resolved. 11: 731.
- Nature Medecine (2010) News. E. Dolgin. Newer antidepressants go beyond serotonin-and the synapse. 16: 1345.
- Nature Medecine (2010) Notable advances 2010. E. Chmielnicki. Neurobiology: Prozac notion. 16: 1360-1361.
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SCHNEIDER B., MUTEL V., PIETRI M., ERMONVAL M., MOUILLET-RICHARD S.\* & KELLERMANN O. (2003) : NADPH-oxidase and extracellular regulated kinases 1/2 are targets of prion protein in neuronal and non neuronal cells. **Proc. Natl. Acad. Sci.**, 100, 13326-13331. (\*:corresponding author)

MOUILLET-RICHARD S., ERMONVAL M., CHEBASSIER C., LAPLANCHE J.L., LEHMANN S., LAUNAY J.M. & KELLERMANN O.(2000): Signal transduction through prion protein. **Science**, 289, 1925-1928.

Numerous press releases, including in daily journals (Le Figaro, Le Monde, Libération)