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CABANTOUS, Stéphanie

Born: 23 March 1974, Decazeville, France

Email: stephanie.cabantous@inserm.fr

Publons Researcher ID: M-3282-2014/ Orcid: 0000-0002-8406-9421

CRCT, Team 3, Cancer cell signaling and therapeutics.



EMPLOYMENT

2012-present **Senior researcher** (INSERM CR1) at the CRCT/ UMR1037, Toulouse, France

2009-2012 **Researcher** (INSERM CR2) at INSERM U593 Claudius Régaud, Toulouse, France

2008-2009 **Tenured researcher** (INSERM CR2) at the IPBS/CNRS UMR5089, Toulouse, France

2005-2008 **Post-doctoral fellow**, Los Alamos National Laboratory (LANL), Los Alamos NM, USA

EDUCATION

2018 Habilitation à Diriger des Recherches (**HDR**) / Accreditation to supervise research, University of Toulouse (UT3 – Paul Sabatier)

2005 **PhD** from the University of Toulouse, Codirection : Dr. G.S.Waldo, Los Alamos National Laboratory (USA) & Dr L. Mourey, IPBS-CNRS UMR5089, Toulouse.

2001 **B.Sc.** in Biochemistry-Biotechnology, Université Paul Sabatier, Toulouse, France.

DISTINCTIONS

2007 Outstanding Innovation Technology transfer award for "GFP Research Tool", Los Alamos National Laboratory. S. Cabantous & G. Waldo.

2011 Distinguished Patent Award for "Nucleic acid encoding a self-assembling split fluorescent protein system, Los Alamos National Laboratory. S. Cabantous & G. Waldo.

MENTORING

Since 2008: supervision of 6 technicians, 6 undergraduate students, 6 master students, 3 PhD students.

RESEARCH EVALUATION

Reviewing activity: Nature Commun., Communications Biology, Nature Protocols, Scientific Reports, Chem Asia, Current Mol. Med. J. of Biotechnology. Research grants «La Ligue contre le cancer», « Fight for Sight funding » (UK).

GRANTS AND CONTRACTS

2018-2020: **Project manager** – Deciphering of RhoB mediated cell signaling pathways in the resistance to EGFR inhibitors. Grant from Ligue Régionale contre le Cancer. 2018-2019: 1 year award- 25K€.

PhD fellowship "INSERM-Région Midi Pyrénées. 2019-2022: 115K€.

2019-2022. **Partner Manager** in a project funded by the *INCA*. (120 k€)), leader D. Santamaria, IECB, Bordeaux.

2018-2021. **Partner Manager** in a project funded by the *Agence Nationale de la Recherche* (ANR) generic call. ANR SEPTIMORPH (AAPG 2017, 75 k€)), collaboration M. Mavrakis, Institut Fresnel, Marseille.

2013-2015: **Partner Manager** with Gilles Favre. Contrat with Sanofi/Aviesan (Small molecules screening of Rho activation) ref. IT 131217A20. Two-year Renewal (160k€) with Evotec, Toulouse France (2016-2018).

2012-2015 : **Project manager** –Development of imaging tools to study small GTPase activation using tripartite split-GFP assays. Grants from Ligue Régionale contre le Cancer. 2011-2012: 1 year award- 25K€ and PhD fellowship "INSERM-Région Midi Pyrénées. 2012-2015: 105K€.

PUBLICATIONS

35 publications in international, peer-reviewed journals; 6 patents (5 US and 1EP);

Web of Science h-index 17; Citations: 2467;

Google Scholar i10-index:23; Citations since 2016: 1929.

Five selected publications:

1. Pedelacq JD, **Cabantous S.** (2019). Development and Applications of Superfolder and Split Fluorescent Protein Detection Systems in Biology. *Int J Mol Sci.* Jul 15;20 (14).
2. Koraïchi, F., Gence, R., Bouchenot, C., Grosjean, S., Lajoie-Mazenc, I., Favre, G., **Cabantous, S.** (2018). High-content tripartite split-GFP cell-based assays to screen for modulators of small GTPase activation. *J Cell Sci.* Jan 8;131(1). pii: jcs210419.
3. **Cabantous S***, Nguyen HB, Pedelacq JD, Koraïchi F, Chaudhary A, Ganguly K, Lockard MA, Favre G, Terwilliger TC, & Waldo GS* (*co-corresponding authors) (2013). *Sci Rep.* Oct 4;3:2854.
4. Kaddoum, L., Magdeleine, E., Waldo, G. S., Joly, E., and **Cabantous, S.** (2010) One-step split GFP staining for sensitive protein detection and localization in mammalian cells, *Biotechniques* 49, 727-728, 730, 732 passim.
5. **Cabantous S.**, Terwilliger T.C., & Waldo G.S. (2005). Protein tagging and detection with engineered self-assembling fragments of green fluorescent protein. *Nature Biotechnology*, 23 (1):102-7.