

## CURRICULUM VITAE (10/2018)

**NOSELLI, Stéphane** | Born, July 26th, 1963 | Citizenship: French | Married, 2 children

### RESEARCH (ORCID: 0000-0002-7296-324X)

Our research program aims at better understanding the mechanisms underlying symmetry breaking, and how this information is propagated to cells and organs. We are also trying to understand how asymmetry can cross organizational layers to become multiscale (from molecular to behavioral) and whether these fundamental mechanisms are conserved during evolution. To these goals, we initiated the study of LR asymmetry in *Drosophila*. Our previous work identified Myosin1D as a unique *situs inversus* gene, regulating visceral LR asymmetry through cell death, E-Cadherin, HOX genes and the conserved PCP pathways. More recently, we have shown that Myo1D orthologs control LR asymmetry in both xenopus and zebrafish, revealing Myo1D as the first unifying principle of laterality across phyla.

Our current work aims at identifying new genes/pathways and concepts controlling asymmetry and motility, using multiscale approaches combining biochemistry, genetics, cell biology and modeling. More specifically, we design large-scale genetic and molecular screens to i) identify new genes controlling visceral LR asymmetry, ii) establish *Drosophila* as a new paradigm to study brain asymmetry and iii) identify new genes involved in the control of cell motility *in vivo*.

### Current Positions

- CNRS Research Director, Exceptional Class (DRCE)
- Director, Institut de Biologie Valrose - iBV, Univ. Côte d'Azur, CNRS, INSERM (310 persons - 28 Research Teams) (website: [ibv.unice.fr](http://ibv.unice.fr)) (2018-2022)
- Group Leader, (ATIPE-CNRS; EMBO YIP) - iBV-Nice, UMR 7277 CNRS, UMR1091 Inserm 'Morphogenesis and Left-Right Asymmetry in *Drosophila*' (since 2000)([Noselli Team](#))

### Education

- 08/1990 EMBO practical course. MPI, Tübingen. (Organizers C. Nüsslein-Volhard and E. Wieschauss)
- 1988-1992 PhD Thesis, University P. Sabatier, Toulouse. (« Très Honorable, Félicitations du Jury »)
- 1992-1998 Group Leader (Centre de Biologie du Développement, Toulouse).
- 1998 'Habilitation to supervise research' (HDR). University P. Sabatier, Toulouse
- 1998-2000 Sabbatical in Pr. N. Perrimon's lab (Harvard Medical School, Boston-USA)
- 2000- ATIP & EMBO YIP Group Leader: 'Morphogenesis and LR Asymmetry in *Drosophila*' (Univ. of Nice)

### Honors & Awards:

- 2018 Elected Member of Academia Europaea
- 2014 Elected EMBO Member
- 2014 CNRS Research Director, Exceptional Class (DRCE)
- 2013 Grand Prix Mottart (quadrennial), French Academy of Sciences
- 2012 LABEX SIGNALIFE (Director) (49 teams, 500 members)
- 2008 Silver Medal, CNRS
- 2008 Team, Fondation pour la Recherche Médicale (FRM)
- 2007 "Great French Discoveries in Biology", French Academy of Sciences
- 2004 Marie Curie Host for Research Training (EC 6th Framework). InterDec PhD Program
- 2001 EMBO Young Investigator Program (EMBO YIP)
- 1999 ATIP CNRS "Developmental Biology"
- 1998 Bronze Medal, CNRS
- 1998 NATO Fellowship



### Institutional Responsibilities & Commissions of Trust (selection)

- Director, IBV CNRS INSERM UNS (2018-2022) (28 teams, 310 persons)
- Director, IBV CNRS INSERM UNS (2012-2017) (17 teams, 230 persons)
- Director, IBDC-Nice UMR6543 CNRS UNS (2008-2011) (13 teams, 200 persons)
- Director, LABEX SIGNALIFE (49 Teams, 500 persons, 11M€) (2012-2022)
- Member, Inserm Scientific Council (2013-2017)
- Member, CEFIPRA Scientific Council (French & India Foreign Affairs) 2013-2017
- Member, Evaluation Committee of the 'Institut Universitaire de France' (IUF)(2014-2016)
- President, AERES Committee, CRBM Montpellier (2009)
- President, AERES Committee, UPR9022 'Insect immunity' (2012)
- Vice-President, AERES Committee, CIRB Collège de France (2013)
- Vice-President, ANR Committee 'Biologie Cellulaire & Développement' (2014, 2018, 2019)
- Vice-President & Member, ANR Committee "Blanc et Jeunes Chercheurs" CSD8, CSD2 (2007-2010)
- Member, ANR pre-selection Committee (CEP) (2014)
- Member, ARC CN2, National Committee, «Association Recherche contre le Cancer» (2012-2016)
- Member, ARC CN3 National Committee, «Association Recherche contre le Cancer» (2002-2008)
- Member of the Board, 'Section 26 du Comité National du CNRS' (2008-2012)
- Member, 'Scientific Excellence Award, PES' Committee, CNRS (2010)
- President, 'Chair of d'Excellence' Committee, CNRS/UNS, University of Nice (2010)
- Member, Scientific Advisory Board, Institut de Biologie Paris-Seine, IBPS (2016-)
- Member, jury 'Chaire d'Excellence' CNRS/ENS, Ecole Normale Supérieure de Lyon (2009)
- Member, Scientific Advisory Board de 'Institut de Génomique Fonctionnelle' (IGFL), Lyon
- Member, Scientific Advisory Board de 'Institut de Génétique Humaine' (IGH), Montpellier (2014-)
- Member, Selection Committee for Director of CEFIPRA, French Embassy in New Delhi, India (2012)
- Co-chair, Cancéropôle PACA: «Genetic models & tumoral development» (Axe III)
- Scientific Responsible, PRISM Imaging Platform IBDC/iBV
- Conference Organization: 1<sup>er</sup> joint Meeting of SFBD/BSDB (Nice, 2003) | 'Conférence Annuelle Française sur la Drosophile/French Drosophila Conference' (St Jean Cap-Ferrat, CAFD 2006) | European Drosophila Research Conference EDRC (Nice, 2009) | 2<sup>nd</sup> joint Meeting of the SFBD/BSDB (Nice, 2011)
- Member of the Board, 'Société Française de Biologie du Développement', SFBD (2003-2006)
- Member, Doctoral School of University of Nice ED85 (since 2004)

**Science communication & Media :** Contributions (written, spoken, advisor) to several popular/science medias, including : Science & Vie ; Pour la Science ; France 3 TV (2008 ; 2010) ; CNRS Magazine International ; Journal du CNRS ; France Info ; Le Figaro ; Nice Matin ; Exposition '1000 Chercheurs parlent d'avenir' (Pierre Maraval, 18-24 oct. 2010, Panthéon, Paris), etc...

**Invited Conferences (Meetings/Institutes)(100+):** National and International (Austria, Canada, China, England, Germany, Greece, Hungary, India, Japan, Mexico, United States), including EMBO meetings, EMBO Workshops, FEBS Congress, RIKEN CDB meeting, LR Asymmetry meeting, ISDB meeting, European EVO-DEVO meeting, SFBD&BSDB Joint meetings, Fly meetings (Crete Meeting, Fly meeting USA, Fly meeting France).

**Publications (58):** *Science, Nature, Cell, Nature Communications, PLoS Biology, Developmental Cell, Genes & Development, Cell Reports, Current Biology, Development, PLoS Genetics, EMBO Reports, Developmental Biology, etc.*; **Invited Reviews:** *Science, Nature Cell Biology, Current Biology, Curr. Op. Genetics & Development, Curr. Op. Cell Biology, Trends in Genetics, Seminars Developmental Biology, EMBO Reports, Genesis, Fly*