

## Bruno HUDRY

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### Education

09/2007 - 10/2011 **Doctor of Philosophy in Developmental Biology**, Passed with honors  
Supervisor: Dr Samir Merabet  
Aix-Marseille II University, Marseille, France

06/2007 **Master of Science in molecular and cellular biology**, Passed with honors  
Ecole Normale Supérieure de Lyon, Lyon, France

06/2005 **Bachelor of Science in molecular and cellular biology**, Passed with honors  
Ecole Normale Supérieure de Lyon, Lyon, France

### Professional experiences

06/2018 - **Group leader**  
Institut de Biologie Valrose, CNRS UMR7277, Inserm U1091, UNS Université Nice Sophia Antipolis, Nice, France

02/2013 - 05/2018 **Post-doctoral EMBO fellow** in the team of Prof Irene Miguel-Aliaga  
MRC Clinical Sciences Centre, London, United Kingdom

05/2012 - 09/2012 **Short-term EMBO fellow** in the team of Prof Ulrich Technau  
Department of Molecular Evolution and Development, Vienna University, Austria

09/2007 - 04/2012 **PhD student** in the team of Dr Yacine Graba  
Developmental Biology Institute of Marseille, France

01/2007 - 06/2007 **Undergraduate student** in the team of Dr Francesca Palladino  
Laboratoire de Biologie moléculaire de la cellule, Lyon, France  
Topic: Epigenetic, *Publication: C. elegans* Heterochromatin Protein 1 (HPL-2) links developmental plasticity, longevity and lipid metabolism

08/2006 - 12/2006 **Undergraduate student** in the team of Dr Guillaume Balavoine  
Centre de Génétique Moléculaire de Gif-sur-Yvette, Paris, France  
Topic: Evolutionary Developmental biology, *Publication: Complementary striped expression patterns of NK homeobox genes during segment formation in the annelid Platynereis*

01/2006 - 06/2006 **Undergraduate student** in the team of Dr Yacine Graba  
Developmental Biology Institute of Marseille, France  
Topic: Developmental biology, *Publication: A unique Extradenticle recruitment mode in the Drosophila Hox protein Ultrabithorax*

### Grants

2017 **ATIP-AVENIR Program laureate**

2017 **Université Côte d'Azur Académie 4 IDEX JEDI laureate** (50 K€ sur un an)

2015 **EMBO Advanced Fellowship**

2012 **EMBO Long-Term Fellowship**

2012 **EMBO Short-Term Fellowship**

2010 **SFBD (French Society for Developmental Biology) travel grant**

2007 **PhD fellowship**, Competitive fellowship that specifically supports 'Ecole Normale Supérieur' student

## Conferences

### Oral communications

- 2017 25<sup>st</sup> European Drosophila Research Conference, London, United Kingdom  
2017 Laboratoire de Biologie et Modélisation de la Cellule, Lyon, France (seminar)  
2017 Institut de Biologie Valrose, Nice, France (seminar)  
2017 Centre de Biologie du Développement, Toulouse, France (seminar)  
2017 iCLIP: Genomic views of protein-RNA interactions, Mainz, Germany  
2016 The 7<sup>th</sup> EMBO meeting, Mannheim, Germany  
2016 Shaping Life, Marseille, France  
2016 57<sup>th</sup> Annual Drosophila Research Conference, Orlando, United State of America  
2015 56<sup>th</sup> Annual Drosophila Research Conference, Chicago, United State of America  
2010 The 3<sup>rd</sup> European Evo Devo Conference, Paris, France  
2009 21<sup>st</sup> European Drosophila Research Conference, Nice, France

### Poster presentations

- 2017 Keystone Symposia on Sex and Gender Factors Affecting Metabolic Homeostasis, Diabetes and Obesity, Tahoe City, United State of America  
2013 Nutritional Homeostasis Workshop, Bonn, Germany  
2011 HOX and TALE Transcription Factors in Development and Disease, Carry-Le-Rouet, France  
2010 The 2<sup>nd</sup> EMBO meeting, Barcelona, Spain  
2009 16<sup>th</sup> International Society of Developmental Biologists Congress, Edinburgh, Scotland  
2008 2<sup>nd</sup> meeting of the European Society for Evolutionary Developmental Biology, Ghent, Belgium

## Meeting Organiser

- 2014 - present London Gut Club co-organiser: a biannual series of presentations by members of laboratories working on the mammalian or invertebrate intestine  
2015 - present MRC LSM post-doc committee member: LSM post-doc invited speaker series organiser and LSM post-doc retreat organiser

## Mentoring

EMBO Laboratory Leadership Course for Group Leaders (February 2018)  
Supervision of 2 master students during my post-doc: Simaran Kalkat and Eva de Goeij

## Additional Information

Member of the French Society for Developmental Biology

## Publications

- 19- Grmai L, Hudry B, Miguel-Aliaga I, Bach EA. Chinmo prevents transformer alternative splicing to maintain male sex identity. *PLoS Genet*. 2018;14(2):e1007203.
- 18- Perea D, Guiu J, Hudry B, Konstantinidou C, Milona A, Hadjieconomou D, Carroll T, Hoyer N, Natarajan D, Kallijärvi J, Walker JA, Soba P, Thapar N, Burns AJ, Jensen KB, Miguel-Aliaga I. Ret receptor tyrosine kinase sustains proliferation and tissue maturation in intestinal epithelia. *EMBO J*. 2017; 36(20):3029-3045.
- 17-Hudry B<sup>§</sup>, Khadayate S, Miguel-Aliaga I<sup>§</sup>. The sexual identity of adult intestinal stem cells controls organ size and plasticity. *Nature*. 2016; 530(7590):344-348. (<sup>§</sup> co-corresponding authors)
- 16-Baëza M, Viala S, Heim M, Dard A, Hudry B, Duffraisse M, Rogulja-Ortmann A, Brun C, Merabet S. Inhibitory activities of short linear motifs underlie Hox interactome specificity in vivo. *Elife*. 2015; 4: e06034.
- 15-Duffraisses M, Hudry B, Merabet S. Bimolecular fluorescence complementation (BiFC) in live Drosophila embryos. *Methods Mol Biol*. 2014; 1196:307-18.
- 14-Boube M, Hudry B, Immarigeon C, Carrier Y, Bernat-Fabre S, Merabet S, Graba Y, Bourbon HM, Cribbs DL. *Drosophila melanogaster* Hox transcription factors access the RNA polymerase II machinery through direct homeodomain binding to a conserved motif of mediator subunit Med19. *PLoS Genet*. 2014; 10(5):e1004303.
- 13-Hudry B<sup>§</sup>, Thomas-Chollier M, Volovik Y, Duffraisse M, Dard A, Frank D, Technau U, Merabet S<sup>§</sup>. Molecular insights into the origin of the Hox-TALE patterning system. *Elife*. 2014; 3:e01939. (<sup>§</sup> co-corresponding authors)
- 12-Linneweber GA, Jacobson J, Busch KE, Hudry B, Christov CP, Dormann D, Yuan M, Otani T, Knust E, de Bono M, Miguel-Aliaga I. Neuronal control of metabolism through nutrient-dependent modulation of tracheal branching. *Cell*. 2014; 156(1-2):69-83.
- 11-Banreti A, Hudry B, Sass M, Saurin AJ, Graba Y. Hox proteins mediate developmental and environmental control of autophagy. *Dev Cell*. 2014; 28(1):56-69.

- 10-Sambrani N, **Hudry B**, Maurel-Zaffran C, Zouaz A, Mishra R, Merabet S, Graba Y. Distinct molecular strategies for Hox-mediated limb suppression in *Drosophila*: from cooperativity to dispensability/antagonism in TALE partnership. *PLoS Genet*. 2013; 9(3):e1003307.
- 9-Merabet S, **Hudry B**. Hox transcriptional specificity despite a single class of cofactors: are flexible interaction modes the key? *Bioessays*. 2013; 35(2):88-92.
- 8-**Hudry B**, Remacle S, Delfini MC, Rezsöházy R, Graba Y, Merabet S. Hox proteins display a common and ancestral ability to diversify their interaction mode with the PBC class cofactors. *PLoS Biol*. 2012; 10(6):e1001351.
- 7-Meister P, Schott S, Bedet C, Xiao Y, Rohner S, Bodenec S, **Hudry B**, Molin L, Solari F, Gasser SM, Palladino F. *Caenorhabditis elegans* Heterochromatin Protein 1 (HPL-2) links developmental plasticity, longevity and lipid metabolism. *Genome Biol*. 2011; 12(12):R123.
- 6-Merabet S, **Hudry B**. On the border of the homeotic function: Re-evaluating the controversial role of cofactor-recruiting motifs: The role of cofactor-recruiting motifs in conferring Hox evolutionary flexibility may critically depend on the protein environment. *Bioessays*. 2011; 33(7):499-507.
- 5-**Hudry B**, Viala S, Graba Y, Merabet S. Visualization of protein interactions in living *Drosophila* embryos by the bimolecular fluorescence complementation assay. *BMC Biol*. 2011; 28:9:5.
- 4- Medioni C, Bertrand N, Mesbah K, **Hudry B**, Dupays L, Wolstein O, Washkowitz AJ, Papaioannou VE, Mohun TJ, Harvey RP, Zaffran S. Expression of Slit and Robo genes in the developing mouse heart. *Dev Dyn*. 2010; 239(12):3303-3311.
- 3- Merabet S, **Hudry B**, Saadaoui M, Graba Y. Classification of sequence signatures: a guide to Hox protein function. *Bioessays*. 2009; 31(5):500-511.
- 2- Saudemont A, Dray N, **Hudry B**, Le Gouar M, Vervoort M, Balavoine G. Complementary striped expression patterns of NK homeobox genes during segment formation in the annelid *Platynereis*. *Dev Biol*. 2008; 317(2):430-43.
- 1-Merabet S, Saadaoui M, Sambrani N, **Hudry B**, Pradel J, Affolter M, Graba Y. A unique Extradenticle recruitment mode in the *Drosophila* Hox protein Ultrabithorax. *Proc Natl Acad Sci U S A*. 2007; 104(43):16946-16951.