

## Curriculum Vitae

### Julien COLOMB, PhD

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**Birth: 9 April 1979**

**Single**

**Swiss**

### *Research activities*

2009-present    Postdoctoral fellow  
FU (Berlin)  
working on "the what and where of operant learning in *Drosophila*"  
Coworker: Dr. hab. B. Brembs

2007-2008      Postdoctoral fellow  
ESPCI (France)  
working on "appetitive learning in *Drosophila*"  
Supervisor: Dr. T. Preat

### *Education*

2006            PhD in Biology  
University of Fribourg (CH).  
PhD dissertation: "The chemosensory system of *Drosophila* larvae: neuroanatomy and behaviour"  
Thesis director: Prof. R.F Stocker

2002            Diploma in Biology  
University of Fribourg (CH)  
Subject: "Anatomical and functional studies of the chemosensory system of the *Drosophila* larva suggest the presence of a gustatory target area in the antennal lobe?"

1998            "Maturité fédérale type C" (scientific subsection), in the "Collège de la royale Abbaye de St. Maurice"

### *Approved grants*

2010            Forschungsgruppe "biogenic amines in insects". Grant cowritten with B.Brembs

2009            SNF for advanced researches : PA00P3-124141 - The what and where of operant learning in *Drosophila*

2007 SNF for prospective researchers: PBFR33-116951 - Memory phases of reward learning in *Drosophila melanogaster*

### ***Teaching experience***

2011 Practical course neurobiology. (7 times 4 hours, Practical course supervision)  
2011 Entwicklung der Insekten [Insect development] (2 hours lecture)  
2006 Fluorescence and Confocal Microscopy (lecture course to master student, 3 hours)  
2003–2006 Studying behavior. (course during the practical course, 2 hours)  
2003–2005 An introduction to learning and memory and their molecular mechanisms. (2 hours, part of the lecture course "Developmental- and Neurogenetics" given by R.F. Stocker).

### ***Supervision of student***

2010-present Co-supervisor of the PhD student Chistine Damrau (with Dr. B.Brembs) on the role of octopamine in reward, motivation and motor control in *Drosophila*.  
2008 Co-supervisor of the PhD student Séverine Trannoy (with Dr. G. Isabel and Dr. N. Gervasi) on the role of dopamine in appetitive learning consolidation in *Drosophila*.  
2005 Co-supervisor of the diploma work of Claire Huguenin (with Dr. A. Ramaekers) on the role of NO in olfactory discrimination in *Drosophila* larvae.

### ***Organization of conferences***

2004 Co-organizer of a PhD meeting, in Cerniat. (30 participants)

### ***Languages***

French (mother tongue), English (fluent), German (fluent), Spanish (basics).

### ***Computer skills***

Publishing: T<sub>E</sub>X, Office; html; Image processing: Photoshop, Illustrator, Image J;  
Programming: Labview, R (freeware for statistics)

### ***reviewer for the following journals***

Current Biology, Proceedings of the royal society B, The Journal of Experimental Biology, learning and memory, PLoS one, JEAB  
Associate member of faculty of 1000

### ***Other tasks***

2007 Creation of the T. Preat's lab website.  
2004. Creation of the R.F. Stocker's lab website.  
Co-director in the theater group "les apostrophes" in 2006  
Cashier of and actor in the theater group "les apostrophes" in 2002-2005.

## ***Publications***

4 1st author research paper  
2 review (from which 1 book chapter)  
1 extra-view article  
h-index: 4

submitted

- (-). **Julien Colomb**, Lutz Reiter, Jędrzej Błaszczewicz, Jan Wessnitzer and Bjoern Brembs.  
"Open source software to track and analyse locomotion: computer simulation versus *Drosophila* imago in Buridan's arena.". Plos One (-).
- (-). **Ezequiel Mendoza**, **Julien Colomb**, Juergen Rypbak, Hans-Joachim Pflueger, Troy Zars, Constance Scharff and Bjoern Brembs.  
"*Drosophila* FoxP is necessary for operant self-learning." PNAS (-).

Peer reviewed article

- (2009). **Julien Colomb**, Laure Kaiser, Marie-Ange Chabaud, Thomas Preat  
"Parametric and genetic analysis of *Drosophila* appetitive long-term memory and sugar motivation" Genes Brain and Behaviour (8 (4): 407-415).  
cited 13 times
- (2007). **Julien Colomb**, Nicola Grillenzoni, Ariane Ramaekers, and Reinhard F. Stocker.  
"Architecture of the primary taste center of *Drosophila melanogaster* larvae". J. comp. neurol. (502: 834-847).  
cited 29 times
- (2007). **Julien Colomb**\*, Rüdiger Bader\*, Bettina Pankratz, Anne Schröck, Reinhard F. Stocker, and Michael J. Pankratz.  
"Genetic dissection of a neural circuit underlying feeding behavior in *Drosophila*: distinct morphology of single *hugin* expressing neurons". J. comp. neurol. (502: 848-856).  
\* the two authors participated equally to this work.  
cited 27 times
- (2007). **Julien Colomb**, Nicola Grillenzoni, Reinhard F. Stocker, and Ariane Ramaekers.  
"Complex behavioural changes after odour exposure in *Drosophila* larva". Anim. Behav. (73 (4): 579-85).  
cited 8 times

Reviews and comment article

- (2010). **Julien Colomb**, Bjoern Brembs  
"biology of psychology: "simple conditioning"" Communicative and Integrative Biology (3 (2): 142-145).  
cited 3 times

- (2008). **Julien Colomb**  
“Discriminative learning, learning generalization and masking tests as three strategies to assess olfactory discrimination.” *Animal Behaviour: New Research* 185-192  
cited 0 times
- (2007). **Julien Colomb**, Reinhard F. Stocker  
“Combined rather than separate pathway for hedonic and sensory aspects of taste in *Drosophila* larvae.” *FLY* (1 (4): 232-234).  
cited 1 times

### Meeting presentations (six most important)

- 2011 Hide if you can't fly !?  
POSTER PRESENTATION at the GNS meeting, Göttingen, Germany.
- 2010 The what and where of operant learning in *Drosophila*.  
POSTER PRESENTATION at the SNF meeting, San Diego, USA.
- 2008 New insight into appetitive Long term memory in *Drosophila*.  
POSTER PRESENTATION at the FENS Forum, Geneva, Switzerland.
- 2006 Sub-regions in the primary taste center of *Drosophila* larvae.  
ORAL PRESENTATION at the 11th European *Drosophila* neurobiology Conference, Leuven, Belgium
- 2004 Learning by odor exposure in agar plate.  
ORAL PRESENTATION at the behavioural neurobiology of *Drosophila* larvae meeting, Würzburg, Germany.
- 2002 Functional studies of the chemosensory system of the *Drosophila* larva using a new tool: the GAL4 / UAS-shi<sup>ts</sup> system.  
ORAL PRESENTATION at the Swiss *Drosophila* meeting, Basel, Switzerland.