Curriculum Vitae

Julien COLOMB, PhD

Schillerpromenade 4
12049 Berlin
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Birth: 9 April 1979 in Sion (CH)
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 avanced researchesr : 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 surpervision)
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: TEX, 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

Founding of the *Drososhare* startup
Creation of the T. Preat's and 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

5 1st author research paper
2 review (from which 1 book chapter)
1 extra-view article
h-index: 4

submitted

- (-). **Ezequiel Mendoza**, **Julien Colomb**, Juergen Rypbak, Hans-Joachim Pflueger, Troy Zars, Constance Scharff and Björn Brembs.
  "*Drosophila* FoxP is necessary for operant self-learning." PNAS (-).

Peer reviewed article

- (2012). **Julien Colomb**, Lutz Reiter, Jedrzej Blaszkiewicz, Jan Wessnitzer and Björn Brembs.
  "Open Source Tracking and Analysis of Adult *Drosophila* Locomotion in Buridan's Paradigm with and without Visual Targets.". Plos One (7(8): e42247).
- (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**, Björn 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)

2012 PKC AND DFOXP ARE NECESSARY FOR OPERANT SELF-LEARNING
POSTER PRESENTATION at the FNS meeting, Barcelona, Spain.

2011 Hide if you can't fly !?
POSTER PRESENTATION at the GNS meeting, Göttingen, Germany.

2010 The what and where of opernant 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^{ts} system.
ORAL PRESENTATION at the Swiss Drosophila meeting, Basel, Switzerland.