

Curriculum Vitae

Julien COLOMB, PhD

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Birth: 9 April 1979 in Sion (CH)
Single, one child
Swiss

Commercial activities

2012-present Founder and CEO of Drososhare GmbH (Berlin, Germany),
a company developing an automated fly exchanges.

Research activities

2014 Postdoctoral fellow, HU & Charite (**Berlin**, Germany), by Prof. Y. Winter
working on the handbook for behavioural diagnostic in rodents.

2009-2013 Postdoctoral fellow, FU (**Berlin**, Germany), by Prof. B. Brembs
working on "the what and where of operant learning in *Drosophila*".

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

Education

2013 Moderation & management (Continuing Education), FU Berlin/Artop.

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

2002 Diploma in Biology, University of Fribourg (**Fribourg**, Switzerland)

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

Languages

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

Research output metrics

h-index =6, Meeting Presentations = 23

10 research papers (6 first author), 2 Open source software (1 main author)

Supervision of student

- 2010-present Co-supervisor of the PhD student Christine 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.

Teaching experience

- 2012 Genetik (bachelor student, 2 x 3 h. lecture, 2x 1h. seminar)
2012 Neurogenetik. (master student, 2 x 2 h. lecture, 2x 1h. seminar)

2011 Practical course neurobiology. (7 x 4 h., Practical course supervision)
2011 Entwicklung der Insekten [Insect development] (2 h. lecture)

2006 Fluorescence and Confocal Microscopy (master student, 3h. lecture)
2003-2006 Studying behavior. (master student, 2 h. lecture)
2003-2005 Developmental- and Neurogenetics (master student, 2 h. lecture).

Approved grants

- 2010 DFG Forschungsgruppe "biogenic amines in insects", cowritten with Dr. Brembs.
2009 SNF for avanced researchers: 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*"

Organization of conferences

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

Reviewer for the following journals

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

Computer skills

Publishing: L^AT_EX, Office; html; Image processing: Photoshop, Illustrator, Image J;
Programming: Labview, R (freeware for statistics), Git

Other tasks

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.

RESEARCH PRODUCTS

Open source Software

- (2011-2013) CeTrAn 1.4 to 4.0, available at www.buridan.sourceforge.net, developed on Github (<https://github.com/jcolomb/CeTrAn>). Used for at least three research papers.
- (2013) Collaborating on Rfigshare (<https://github.com/ropensci/rfigshare>).

Peer review publications

Five most important publications:

- (2014). **Julien Colomb** and Björn Brembs.
“Sub-strains of *Drosophila* Canton-S differ markedly in their locomotor behavior”.
F1000RESEARCH (3:176).
cited 0 times
- (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 35 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 43 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 48 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 9 times

Other Publications

- (2014). Ezequiel Mendoza, **Julien Colomb**, Jürgen Rybak, Hans-Joachim Pflüger, Troy Zars, Constance Scharff, and Björn Brembs.

"*Drosophila* FoxP mutants are deficient in operant self-learning". Plos One (9(6): e100648).
cited 0 times

- (2012). **Julien Colomb**, Lutz Reiter, Jedrzej Blaszkiwicz, 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).
cited 9 times
- (2010). **Julien Colomb**, Björn Brembs
"biology of psychology: "simple conditioning"" Communicative and Integrative Biology (3 (2): 142-145).
cited 10 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 4 times

Meeting presentations (8th most representative)

- 2013 Genetic dissection of octopamine action in reward-related behavior and motor control in *Drosophila* (last author) POSTER at the SFN meeting, San Diego, USA
- 2012 PKC and DFoxP are necessary for operant self-learning.
POSTER PRESENTATION at the FENS meeting, Barcelona, Spain.
- 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^{ts} system.
ORAL PRESENTATION at the Swiss *Drosophila* meeting, Basel, Switzerland.