Curriculum Vitae

Julien COLOMB, PhD
Schillerpromenade 4
12049 Berlin
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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 surpervision)
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: LaTeX, 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 o times

- (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).
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 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.