Curriculum Vitae

Julien COLOMB, PhD in Biology
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Birth: 9 April 1979 in Sion (CH)
Married, two children
Swiss

Summary

After 12 years spent on fundamental research (neuro-genetics) in which I gathered skills in experimental design, team leading and student teaching, I got most interested in open science and research reproducibility as well as the digital tools helping scientists to achieve it. I would like to apply these novel knowledge while doing research and mentoring students.

Commercial activities

2016-present Freelance scientist,
Animal core facility (Charité): organisation lead, data analysis in R
Phenobase (Exist, HU): literature curation.

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

Non-commercial activities

2015- present Organisation of the Berlin Open Science meetup:
- Discussion and brainstorming on open science themes (Reproducible Research, Open Access, peer review)
- Organisation of the open con satellite

Non-commercial activities

2015- present Part of the march for science Berlin Orga team:
we organised a protest in 2017 (11000 people) and are using this momentum to make bridges between science and society

Research activities

2017 - present Postdoctoral fellow, HU (**Berlin**, Germany), by Prof. Y. Winter
Analysing mulitdimensional dataset: the homecagescan case.

2015 - 2016	Postdoctoral fellow, HU & Charité (**Berlin**, Germany), by Prof. Y. Winter Animal core facility director and project manager.
2014 - 2015	Postdoctoral fellow, HU & Charite (**Berlin**, Germany), by Prof. Y. Winter working on Phenobase.
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

2016	FELASA B. HU Berlin
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

https://orcid.org/0000-0002-3127-5520
8 research papers (7 first author), 3 reviews, 1 Scienceopen collection
https://github.com/jcolomb
3 Open source software (2 main author)
h-index =7, Meeting Presentations = 25

Supervision of student

2010-2014	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

2016	Animal models of neuropathy, (master student, 2x2h lecture, organisation)
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).

Computer skills

Organisation: Outlook, Access Publishing: LaTeX, Office; html; Image processing: Photoshop, Illustrator, Image J;
Programming: R (advanced), Git, Labview

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

RESEARCH PRODUCTS

Open source Software

- (2011-2013) CeTrAn 1.4 to 4.0, developed on Github (https://github.com/jcolomb/CeTrAn). Used for more than three research papers.
- (2016) Viewer data concatenator (shiny app).
- (2013-2016) Collaborating on Rfigshare and Rflybase (https://github.com/ropensci/rfigshare).

Peer review publications

Five most important publications:

- (2016). **Julien Colomb** and Björn Brembs.
" PKC in motorneurons underlies self-learning, a form of motor learning in Drosophila" PeerJ (e1971).
cited 3 times
- (2014). **Julien Colomb** and Björn Brembs.
"Sub-strains of Drosophila Canton-S differ markedly in their locomotor behavior". F1000RESEARCH (3:176).
cited 15 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 52 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 72 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 13 times

Other Publications

- (In revision). Christine Damrau, Naoko Toshima, Teiichi Tanimura, Björn Brembs **Julien Colomb**.

"Octopamine and Tyramine contribute separately to the counter-regulatory response to sugar deficit in Drosophila." Frontiers

- (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 15 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 34 times

- (2010). **Julien Colomb**, Björn Brembs
"biology of psychology: "simple conditioning"" Communicative and Integrative Biology (3 (2): 142-145).
cited 20 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***, 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 67 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 5 times

Meeting presentations (4 most representative)

2016 Faster and more reproducible science: Open Science. ORAL PRESENTATION at the neurofly meeting, Creta, Greece.

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

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.