

# CHRISTIAN L. EBBESEN, PhD

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## POSTDOCTORAL EXPERIENCE

- 2017- **Neuroscience Institute, New York University**, New York, USA  
*Oxytocin and hormonal control of neural circuits for social behavior*  
Advisor: Robert C. Froemke
- 2017-2017 **Institute of Biology, Humboldt Universität zu Berlin**, Berlin, Germany  
*Cortical network processing of rat social facial touch*  
Advisor: Michael Brecht

## EDUCATION

- 2013-2017 **Ph.D. in Neurobiology** (Dr.rer.nat., summa cum laude)  
Bernstein Center for Computational Neuroscience / Berlin School of Mind and Brain  
Humboldt Universität zu Berlin, Berlin, Germany  
*Cortical circuits underlying social and spatial exploration in rats*  
Advisor: Michael Brecht
- 2008-2013 **M.Sc. in Physics, B.Sc. in Biophysics** (average grade: 11.4/12, M.Sc. and B.Sc. thesis: 12)  
Niels Bohr Institute, University of Copenhagen, Copenhagen, Denmark

## EXCHANGES AND SUMMER SCHOOLS

- 2015 **Okinawa Computational Neuroscience Course**, Okinawa Inst. of Science and Tech, Okinawa, Japan
- 2013 **BCF/NWG course Analysis and Models in Neurophysiology**, Bernstein Center, Freiburg, Germany
- 2010-2011 **Humboldt Universität zu Berlin, ERASMUS Exchange** (1 yr.), M.Sc. in Biophysics, Berlin, Germany
- 2010 **University of California, Santa Barbara**, B.Sc. thesis research and experiments (6 mo.), CA, USA

## HONORS (accepted)

- 2017 **Lundbeck Foundation Talent Prize** (100.000 DKK research prize for scientists under 30 yrs)
- 2017 **Novo Nordisk Foundation Postdoctoral Fellowship** (4 years full postdoctoral funding)
- 2017 **Humboldt Postdoctoral Scholarship** (6 months, transitional funding bridging PhD and PostDoc)
- 2015 **Travel grant**, CSN II (Biomimetics and Neurotechnology)
- 2014 **Best Poster Award**, FENS Brain Prize Conference: Controlling Neurons, Circuits and Behavior
- 2010 **Travel grant**, Danish Acoustics Society

## INVITED TALKS (accepted)

- 2019 **BARRELS XXXII**, SfN satellite conference, Feinberg School of Medicine, Northwestern University, USA
- 2019 **ASAB Conference**, Association for the Study of Animal Behaviour, University of Konstanz, Germany
- 2018 **SfN Mini-Symposium** (chair and speaker), Society for Neuroscience Annual Meeting, San Diego, USA
- 2016 **BARRELS XXIX**, SfN satellite conference, Brain and Creativity Institute, University of Southern California, USA
- 2016 **Barrel Cortex Function**, "Multidisciplinary, international meeting on sensory (sub)cortical circuits", VU University, Amsterdam, The Netherlands
- 2016 **Young Brain Researchers Conference**, Gonda Multidisciplinary Brain Research Center, Bar-Ilan Univ., Israel
- 2015 **Dept. of Neuroscience and Pharmacology Journal Club** University of Copenhagen Cph, Denmark
- 2014 **Neural Circuits Controlling Sexual Behavior** (selected "poster blitz" talk), HHMI Janelia, USA
- 2014 **Barrel Cortex Function** "Developmental, cellular and circuit mechanisms of cortical sensory information processing", Max-Planck-Institute for Experimental Medicine in Göttingen, Germany
- 2013 **BARRELS XXVI** SfN satellite conference, University of California, San Diego San Diego, USA

## CONFERENCES

**Society for Neuroscience** (2019, 2018, 2017, 2016, 2014, 2013), **FENS Brain Conference: Dynamics of the brain: temporal aspects of computation** (2019), **FENS Brain conference: Controlling Neurons, Circuits and Behaviour** (2014), **BARRELS** (2019, 2018, 2016, 2014, 2013), **NIH BRAIN initiative meeting** (2019), **Society for Social Neuroscience** (2017), **FENS Forum** (2018, 2016), **Barrel Cortex Function** (2016, 2014), **Nordic Neuroscience** (2019, 2017), **Sense to Synapse** (2018), **Young Brain Researchers Conference** (2016), **Cosyne workshops** (2019), **Bernstein Computational Neuroscience Conference** (2016), **Janelia Conference: Neural Circuits Controlling Sexual Behavior** (2014), **Association for the Study of Animal Behaviour** (2019)

## TEACHING EXPERIENCE

2012-2017	<b>Teaching</b> , course: <b>Acquisition and Analysis of Neural Data</b> (M.Sc. in Computational Neuroscience), Bernstein Center for Computational Neuroscience, Berlin
2012-2017	<b>Teaching/correcting</b> , course: <b>Animal physiology</b> (B.Sc. in Biology), Humboldt Universität zu Berlin
2009-2013	<b>Teaching/correcting</b> , <b>International Physics Olympiad</b> in Mexico, Thailand, Estonia & Denmark

## OTHER EXPERIENCE AND SERVICE

2019-2020	<b>NYU SPiNES Selection Committee</b> (Seminars by Postdocs in Neuroscience: Extramural Series)
2019-2020	<b>NYU Neuroscience Postdoc Mentorship Committee</b> (mentoring and development)
2018	<b>Chair, organizer and speaker</b> , Minisymposium, <i>SfN Neuroscience Annual Meeting 2018</i> , San Diego
2012	<b>FELASA B certification</b> , Federation of European Laboratory Animal Science Associations
	<b>Reviewing:</b> Journal of Neuroscience Methods, Journal of Motor Behavior
	<b>Memberships:</b> Society for Neuroscience (2013-), New York Academy of Sciences (2017-), Danish Society for Neuroscience (2019-), Association for the Study of Animal Behaviour (2019-)

## PUBLICATIONS

### Journal articles

in press	<b>Ebbesen CL</b> , Bobrov E, Rao RP, & Brecht M Highly structured, partner-sex- and subject-sex-dependent cortical responses during social facial touch	<i>Nature Communications</i>
2018	<b>Ebbesen CL</b> , Insanally MN, Kopec CD, Murakami M, Saiki A, & Erlich JC More Than Just a “Motor”: Recent Surprises From the Frontal Cortex.	<i>Journal of Neuroscience</i>
2017	<b>Ebbesen CL</b> , & Brecht M Motor cortex – to act or not to act?	<i>Nature Reviews Neuroscience</i>
2017	<b>Ebbesen CL</b> , Doron G, Lenschow C, & Brecht M Vibrissa motor cortex activity suppresses contralateral whisking behavior	<i>Nature Neuroscience</i>
2016	<b>Ebbesen CL</b> , Reifenstein ET, Tang Q, Buralgossi A, [...], & Brecht M Cell Type-Specific Differences in Spike Timing and Spike Shape in the Rat Parasubiculum and Superficial Medial Entorhinal Cortex.	<i>Cell Reports</i>
2016	Tang(*) Q, Buralgossi(*) A, <b>Ebbesen(*) CL</b> , Sanguinetti-Scheck(*) JI, Schmidt H, Tukker JJ, Naumann R, [...], & Brecht M Functional Architecture of the Rat Parasubiculum (*) <b>Co-first author</b>	<i>Journal of Neuroscience</i>
2016	Reifenstein ET, <b>Ebbesen CL</b> , Tang Q, Brecht M, Schreiber S & Kempter R Cell-Type Specific Phase Precession in Layer II of Medial Entorhinal Cortex.	<i>Journal of Neuroscience</i>
2015	Tang Q, <b>Ebbesen CL</b> , Sanguinetti-Scheck JI, [...], Brecht M, & Buralgossi A Anatomical Organization and Spatiotemporal Firing Patterns of Layer 3 Neurons in the Rat Medial Entorhinal Cortex	<i>Journal of Neuroscience</i>
2014	Tang(*) Q, Buralgossi(*) A, <b>Ebbesen(*) CL</b> , Ray S, [...], & Brecht M Pyramidal and stellate cell specificity of grid and border representations in layer 2 of medial entorhinal cortex. (*) <b>Co-first author</b>	<i>Neuron</i>
2012	<b>Ebbesen CL</b> & Bruus H Analysis of laser-induced heating in optical neuronal guidance	<i>J. Neurosci. Methods</i>
2012	Adams(*) JD, <b>Ebbesen(*) CL</b> , Barnkob R, Yang AHJ, Soh HT & Bruus H High-throughput, temperature-controlled microchannel acoustophoresis device made with rapid prototyping. (*) <b>Co-first author</b>	<i>J. Micromech. Microeng.</i>
Peer-reviewed conference proceedings		
2010	<b>Ebbesen CL</b> , Adams JD, Barnkob R, Soh HT & Bruus H Temperature-controlled high-throughput (1 L/h) acoustophoretic particle separation in microchannels.	<i>Proc 14<sup>th</sup> MicroTAS</i>
Doctoral thesis		
2018	<b>Ebbesen CL</b> Cortical circuits underlying social and spatial exploration in rats.	<i>Humboldt-Uni. zu Berlin</i>