

## Yusuke KASUGA

Laboratory for Neural Circuitry of Learning and Memory, RIKEN Center for Brain Science

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### Education

2018-present	Ph.D. in Life Sciences, Department of Life Sciences, Graduate School of Arts and Sciences, University of Tokyo, Tokyo, JAPAN
2015-2016	Neuroscience MSc, Division of Biosciences, University College London, London, UK (Distinction: Top Grade)
2012-2015	Neuroscience BSc, Faculty of Life Sciences and Medicine, King's College London, London, UK (First Class Honors: Top Grade)

### Research Career

April 2022-present	Research Associate; Laboratory for Neural Circuitry of Learning and Memory (Josh Johansen Lab); RIKEN Center for Brain Science, Wako, JAPAN
Apr 2020-Mar 2022	JSPS Special Research Fellow; Laboratory for Neural Circuitry of Learning and Memory (Josh Johansen Lab); RIKEN Center for Brain Science, Wako, JAPAN
Apr 2018-Mar 2020	Junior Research Associate; Laboratory for Neural Circuitry of Learning and Memory (Josh Johansen Lab); RIKEN Center for Brain Science, Wako, JAPAN
Aug 2017-Mar 2018	Technical Staff; Laboratory for Neural Circuitry of Learning and Memory (Josh Johansen Lab); RIKEN Center for Brain Science, Wako, JAPAN
Sept 2016-Jul 2017	Research Assistant; Neural Development, Plasticity and Repair Group (Huiliang Li Lab); Wolfson Institute for Biomedical Research, University College London, London, UK
Oct 2015-Aug 2016	MSc Research Student; Neural Development, Plasticity and Repair Group (Huiliang Li Lab); Wolfson Institute for Biomedical Research, University College London, London, UK
Jan 2015-Apr 2015	BSc Research Student; Neural Stem Cells Lab (Jack Price Lab); Centre for the Cellular Basis of Behavior, King's College London, London, UK
Jul 2014-Sep 2014	Visiting Research Student; Center for Preventive Medical Science, Chiba University, Chiba, JAPAN

### Professional Organization

2020-present Member, the Japan Neuroscience Society  
2021-2022 Member, Society for Neuroscience

### Fellowship/Awards

RIKEN-UCSF Exchange Program travel grant, UCSF Neuroscience Retreat 2022 and UCSF Mission Bay Campus tour, CA USA, 1 October 2022 – 7 October 2022  
JSPS Special Research Fellow (DC2), Japan Society for the Promotion of Science, 1 April 2020 – 31 Mar 2022  
Junior Research Associate, RIKEN, 1 Apr 2017 – 31 Mar 2020  
JNS NEURO2020 travel grant, The 43rd Annual Meeting of the Japan Neuroscience Society, Japan, Jul 2020.

### Research Interest

Field: Neuroscience / Behavior  
Specific: Neural mechanisms of aversive and reward associative learning / Glial mechanisms of motor-skill learning

### Techniques

2017-present Behavioral analyses of aversive and reward associative learning (rat), Stereotaxic surgery (mouse and rat), Optogenetics, Chemogenetics, Calcium Imaging  
2015-2017 *in situ* hybridization, Immunohistochemistry, Cryosectioning, Behavioral analyses of motor-skill learning (mouse)  
2015 Cell culture (mouse and human iPSCs), Immunocytochemistry  
2014 Quantitative RNA analysis (qPCR), Histology

### Publications

Y. Kasuga, A.D. Fudge, Y. Zhang, and H. Li.  
Characterization of a long noncoding RNA *Pcdh17it* as a novel marker for immature premyelinating oligodendrocytes\*  
*Glia*, 67 (11), pp. 2166-2177 (2019)  
\*F1000Prime recommended articles

### Selected Oral Presentations

Y. Kasuga, L.F. Yeh, and J. Johansen.  
Afferent anatomical connectivity defines aversive valence in amygdala for associative learning  
*The 43rd Annual Meeting of the Japan Neuroscience Society*  
Poster presentation to be delivered at the 43rd Annual Meeting of the Japan Neuroscience Society, Online, Japan, Jul 2020.  
L.F. Yeh, A. Uematsu, T. Denki, Y. Kasuga and J. Johansen.  
An aversive-sensorimotor neural circuit for instructing emotional memories  
*The 43rd Annual Meeting of the Japan Neuroscience Society*  
Poster presentation to be delivered at the 43rd Annual Meeting of the Japan Neuroscience Society, Online, Japan, Jul 2020.  
L.F. Yeh, A. Uematsu, T. Denki, Y. Kasuga and J. Johansen.  
A brainstem-to-amygdala circuit provides aversive instructive signals for fear learning

*The 42th Annual Meeting of the Japan Neuroscience Society*

Poster presentation to be delivered at the 42th Annual Meeting of the Japan Neuroscience Society, Nigata, Japan, Jul 2019.

Y. Kasuga, A.D. Fudge, and H Li

Oligodendrocyte lineage dynamics analyses in developing brains with the lineage stage-specific markers

*11<sup>th</sup> FENS Forum of Neuroscience*

Poster presentation to be delivered at the 11<sup>th</sup> FENS Forum of Neuroscience, Berlin, Germany, Jul 2018.

Y. Kasuga, A.D. Fudge, and H Li.

Identification of a long non-coding RNA as new immature oligodendrocyte marker

*Gordon Research Seminars and Conferences for Neural Development*

Poster presentation to be delivered at the Gordon Research Seminars and Conferences for Neural Development, New Port, RI, Aug 2016.

Y. Kasuga, A.D. Fudge, and H Li.

Identification of a long non-coding RNA expressed in premature oligodendrocyte

*2016 UCL Neuroscience Symposium*

Poster presentation to be delivered at the 2016 UCL Neuroscience Symposium, London UK, Jun 2016