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## Adrian W Moore PhD

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### Education

1993-1997 PhD, Biological Sciences, University of Edinburgh

1994 MA, Genetics, University of Cambridge

1990-1993 BA, 1<sup>st</sup> class, honors, Genetics, University of Cambridge

### Professional Experience

4/2018- Team Leader, RIKEN Center for Brain Science

2012-2018 Team Leader, RIKEN Brain Science Institute

2004-2012 Unit Leader, RIKEN Brain Science Institute

1999-2003 Postdoctoral Fellow, Laboratory of Dr Yuh Nung Jan, University of California, San Francisco

1998 Postdoctoral Fellow, Laboratory of Dr Nicholas Hastie, MRC Human Genetics Unit, Edinburgh

1993-1997 Graduate Student, Laboratory of Dr Nicholas Hastie, MRC Human Genetics Unit, Edinburgh

1992 Research Assistant, Laboratory of Dr Kim Nasmyth, Institute of Molecular Pathology, Vienna

1990 Research Assistant, Type II Diabetes Research Team, Glaxo Group Research, London

### Co-appointments

Translational Medicine, University of Liverpool, UK  
School of Health Sciences, Malaysia University of Science, Malaysia

### Awards and Fellowships

2016 Takeda Science Foundation Award

2015 Novartis Award

2014 Mochida Memorial Foundation Award

2011-2012 RIKEN Presidents Fund Award

1999-2002 Wellcome Trust International Prize Traveling Research Fellowship

1996 Genetics Society, Promega, Scotland, Young Geneticist of the Year

1993-1997 Medical Research Council, Studentship



## Peer-Reviewed Publications

- Klebanow LR, Peshel EC, Schuster AT, De K, Sarvepalli K, Lemieux ME, Lenoir JJ, **Moore AW**, McDonald JA, and Longworth MS (2016). *Drosophila* Condensin II subunit, Chromosome Associated Protein-D3, regulates cell fate determination through non-cell autonomous signaling. *Development*. 143:2791-802.
- Delandre C, Amikura R, **Moore AW** (2016). Microtubule Nucleation and Organization in Dendrites. *Cell Cycle*. 15:1685-92.
- Yalgin C, Ebrahimi S, Delandre C, Yoong L F, Akimoto S, Tran H, Amikura R, Spokony R, Torben-Nielsen B, White KP, **Moore AW** (2015). Centrosomin represses dendrite branching by orienting microtubule nucleation. *Nat Neurosci*. 18:1437-45.
- Chen YC, Auer-Grumbach M, Matsukawa S, Zitzelsberger M, Themistocleous AC, Strom TM, Samara C, **Moore AW**, Cho LT, Young GT, Weiss C, Schabhüttl M, Stucka R, Schmid AB, Parman Y, Gaul-Neumann L, Heinritz W, Passarge E, Watson RM, Hertz JM, Moog U, Baumgartner M, Valente EM, Pereira D, Restrepo CM, Katona I, Dusl M, Stendel C, Wieland T, Stafford F, Reimann F, von Au K, Finke C, Willems PJ, Nahorski MS, Shaikh SS, Carvalho OP, Nicholas AK, Karbani G, McAleer MA, Cilio MR, McHugh JC, Murphy SM, Irvine AD, Jensen UB, Windhager R, Weis J, Bergmann C, Rautenstrauss B, Baets J, De Jonghe P, Reilly MM, Kropatsch R, Kurth I, Chrast R, Michiue T, Bennett DL, Woods CG, Senderek J (2015). Transcriptional regulator PRDM12 is essential for human pain perception. *Nat Genet*. 7:803-8.
- Taniguchi H, **Moore AW** (2014). Chromatin regulators in neurodevelopment and disease: Analysis of fly neural circuits provides insights. *Bioessays*. 36:872-83.
- Bard-Chapeau EA, Szumska D, Jacob B, Chua BQ, Chatterjee GC, Zhang Y, Ward JM, Urun F, Kinameri E, Vincent SD, Ahmed S, Bhattacharya S, Osato M, Perkins AS, **Moore AW**, Jenkins NA, Copeland NG (2014). Mice carrying a hypomorphic Evi1 allele are embryonic viable but exhibit severe congenital heart defects. *PLoS One*. 9:e89397.
- Artinger EL, Mishra BP, Zaffuto KM, Li BE, Chung EKY, **Moore AW**, Chen Y, Cheng C, and Ernst P (2013). MLL-dependent network sustains hematopoiesis. *Proc Natl Acad Sci USA*. 110:12000-5.
- Endo K, Karim MR, Taniguchi H, Krejci A, Kinameri E, Siebert M, Ito K, Bray S, **Moore AW** (2012). Chromatin modification of Notch targets in olfactory receptor neuron diversification. *Nat Neurosci*. 15:224-33.
- Hohenauer T, **Moore AW** (2012). The Prdm family: expanding roles in stem cells and development. *Development*. 139:2267-82.
- Nagel J, Delandre C, Zhang Y, Förstner F, **Moore AW**, Tavosanis G (2012). Fascin controls neuronal class-specific dendrite arbor morphology. *Development*. 139:2999-3009.
- Karim MR, **Moore AW** (2011). Convergent local identity and topographic projection of sensory neurons. *J Neurosci*. 31:17017-27.
- Nishimura Y, Yalgin C, Akimoto S, Doumanis J, Sasajima R, Nukina N, Miyakawa H, **Moore AW**, Morimoto T (2010). Selection of behaviors and segmental coordination during larval locomotion is disrupted by nuclear polyglutamine inclusions in a new *Drosophila* Huntington's disease-like model. *J Neurogenet*. 24:194-206.
- Doumanis J, Wada K, Kino Y, **Moore AW**, Nukina N (2009). RNAi screening in *Drosophila* cells identifies new modifiers of mutant huntingtin aggregation. *PLoS One*. 4:e7275.
- Kinameri E, Inoue T, Aruga J, Imayoshi I, Kageyama R, Shimogori T, **Moore AW** (2008). Prdm proto-oncogene transcription factor family expression and interaction with the Notch-Hes pathway in mouse neurogenesis. *PLoS One*. 3:e3859.
- Moore AW** (2008). Intrinsic mechanisms to define neuron class-specific dendrite arbor morphology. *Cell Adh Migr*. 2:81-82.
- Jinushi-Nakao S, Arvind R, Amikura R, Kinameri E, Liu AW, **Moore AW** (2007). Knot/Collier and cut control different aspects of dendrite cytoskeleton and synergize to define final arbor shape. *Neuron*. 56:963-978.

Kuzin A, Brody T, **Moore AW**, Odenwald WF (2005). Nerfin-1 is required for early axon guidance decisions in the developing *Drosophila* CNS. *Dev Biol.* 277:347-365.

**Moore AW**, Roegiers F, Jan LY, Jan YN (2004). Conversion of neurons and glia to external-cell fates in the external sensory organs of *Drosophila hamlet* mutants by a cousin-cousin cell-type respecification. *Genes Dev.* 18:623-628. (from RIKEN)

King-Underwood L, Little S, Baker M, Clutterbuck R, Delassus S, Enver T, Lebozer C, Min T, **Moore A**, Schedl A, Pritchard-Jones K (2005). Wt1 is not essential for hematopoiesis in the mouse. *Leuk Res.* 29:803-12.

Grueber WB, Ye B, **Moore AW**, Jan LY, Jan YN (2003). Dendrites of distinct classes of *Drosophila* sensory neurons show different capacities for homotypic repulsion. *Curr Biol.* 13:618-626.

**Moore AW**, Jan LY, Jan YN (2002). hamlet, a binary genetic switch between single- and multiple- dendrite neuron morphology. *Science.* 297:1355-1358.

**Moore AW**, Barbel S, Jan LY, Jan YN (2000). A genomewide survey of basic helix-loop-helix factors in *Drosophila*. *Proc Natl Acad Sci USA.* 97:10436-10441.

**Moore AW**, McInnes L, Kreidberg J, Hastie ND, Schedl A (1999). YAC complementation shows a requirement for Wt1 in the development of epicardium, adrenal gland and throughout nephrogenesis. *Development.* 126:1845-1857.

**Moore AW**, Schedl A, McInnes L, Doyle M, Hecksher-Sorensen J, Hastie ND (1998). YAC transgenic analysis reveals Wilms' tumour 1 gene activity in the proliferating coelomic epithelium, developing diaphragm and limb. *Mech Dev.* 79:169-184.

Miyagawa K, Kent J, **Moore A**, Charlieu JP, Little MH, Williamson KA, Kelsey A, Brown KW, Hassam S, Briner J, Hayashi Y, Hirai H, Yazaki Y, van Heyningen V, Hastie ND (1998). Loss of WT1 function leads to ectopic myogenesis in Wilms' tumour. *Nat Genet.* 18:15-17.

## Recent Invited Seminars

2018

- EMBO Workshop on Neural Development, Taipei, Taiwan
- Department of Molecular Genetics and Cell Biology, University of Chicago, USA
- Mechanobiology Institute, NUS, Singapore
- Duke Neuroscience, Singapore

2017

- EMBO Conference on Cell Biology of the Neuron: Polarity, Plasticity and Regeneration, Heralikon, Greece
- IUBMB Focused Meeting on Emerging Concepts of the Neuronal Cytoskeleton, Puerto Montt, Chile
- Asia Pacific *Drosophila* Neurobiology Conference, Wuhan, China
- Jan and Dan Duncan Neurological Research Institute at Texas Children's Hospital, and Baylor College of Medicine, USA
- Department of Neuroscience, Yale School of Medicine, USA
- Developmental Biology Program, Sloan Kettering Institute, USA
- Department of Biology, New York University, USA
- Department of Neurology, University of Massachusetts Medical School, USA
- Feinberg School of Medicine, Northwestern University, USA
- Department of Biosciences and Nutrition, Karolinska Institute, Sweden
- SciLifeLabs, Sweden
- Faculty of Medicine and Health Sciences, University of Linkoping, Sweden
- Quantitative Biology Center, Osaka, Japan
- National Institute of Genetics, Mishima, Japan
- Cell Biology, Temasek Life Sciences Laboratory, Singapore

2016

- Neuroscience Program, University of California, San Francisco, USA
- Department of Pathology, Stanford University School of Medicine, USA
- Molecular, Cellular, and Developmental Biology, University of California, Santa Barbara, USA
- Neurobiology Section, Dornsife College, Biological Sciences, University of Southern California, USA
- Department of Molecular Cell and Developmental Biology, University of California, Los Angeles, USA
- Digital Representation of Neuronal Morphologies and Tissue, Workshop, OIST, Japan
- Institute for Frontier Science Initiative, Kanazawa University, Japan

2015

- Faculty of Natural Sciences, Department of Life Sciences of Imperial College London, UK
- Annual Meeting of the Molecular Biology Society of Japan, Kobe, Japan
- Annual Meeting of the Japanese Society for Neurochemistry, Saitama, Japan

2014

- Epigenetics and Transcription in the Brain: Toward Signal Cell Analysis, London, UK
- Neuroscience Session Plenary Lecture, Genetic Society of AustralAsia-Annual Conference 2014, Sydney, Australia
- Behavioral Neurogenetics of Larval Drosophila: Molecules, Circuits and Robotics, Atami, Japan
- Division of Molecular Neurobiology, National Institute for Medical Research, London, UK
- Institute of Genetics and Molecular Medicine, Edinburgh, UK
- College of Life Sciences, University of Dundee, UK
- Workshop on Sensory Systems, Tokyo Institute of Technology, Yokohama, Japan

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- Genomics & Systems Biology, New York University Special Symposium, New York University, Abu Dhabi
- Neural Epigenetics: From Mechanisms to Disease, Tokyo, Japan
- Faculty of Life Sciences, University of Manchester, UK
- Cancer Institute, University College London, UK
- MRC Centre for Developmental Neurobiology, Kings College London, UK
- Department of Biology, University of York, UK
- Medical Faculty Graduate School, Newcastle University, UK
- School of Medical Science and Technology, Indian Institute of Technology Kharagpur, India
- Indian Institute of Science Education and Research Pune, India

2012

- Sackler School of Graduate Biomedical Sciences, Tufts University, USA
- Department of Molecular and Cellular Biology, Harvard, USA
- Genetic Society of AustralAsia-Annual Conference 2012, Melbourne, Australia
- Developmental Neurobiology Course 2012, OIST, Japan
- Invertebrate Neurobiology, Cold Spring Harbor Asia, China
- Department of Biological Sciences, Tokyo Metropolitan University, Japan
- The Annual Meeting of the Molecular Biology Society of Japan, Fukuoka, Japan
- Annual Meeting of the Japanese Society of Developmental Biologists, Okinawa, Japan

### Selected Professional Activities

Grant Review: National Science Foundation (USA), Deutsche Forschungsgemeinschaft (Germany), AFMTéléthon (France), Israel Science Foundation, Austrian Academy of Sciences, Swiss National Science Foundation, and others.

Manuscript Review: Nature Neurosci, PLoS Biology, J Neurosci, Elife, Journal of Cell Biology, PLoS Genetics, Development, Journal of Cell Science, Genetics, Developmental Biology, and others.

Ad Hoc Editor PLoS Genetics

Ad Hoc Science Advisor: British Council and UK Embassy in Japan Innovation Section, and other

Meetings: Symposium Organizer: 2018 European Drosophila Neurobiology, Krakow Poland  
Scientific Committee: 2019 Asia Pacific Drosophila Neurobiology, Taipei, Taiwan  
Scientific Committee: 2016 Asia Pacific Drosophila Neurobiology, Wuhan, China  
Co-organizer: 2014, Epigenetics in the Brain: to the Single Cell Level, London, UK.  
Lead Organizer: 2103, Neural Epigenetics: From Mechanisms to Disease, Tokyo, Japan.

## Teaching

Yearly RIKEN Brain Science Training Program

2017, 2018 Advanced Animal Development,  
National University of Singapore, Temasek Life Sciences Laboratory.

2012 OIST Developmental Neurobiology Course.

## Students

### Phd Students

#### Current

Jiao Zhao  
Saitama University, Japan  
2018–

Oliver Robert Wilkes  
University of Liverpool  
2017–

Fatma Rabia Urun  
Saitama University, Japan  
2016–

Chee Wei Tee  
Malaysia University of Science  
2015–

#### Past

Hui Keem Lim  
Malaysia University of Science  
2013–2017

Cagri Yalgin M.D.  
Saitama University  
2008–2012

Currently Postdoctoral Researcher at University of Helsinki  
(Howey Jacobs).

Rezaul M Karim  
Saitama University  
2006 –2011

Currently Assistant Professor, Dept. of Biotechnology and Genetic Engineering,  
Jahangirnagar University, Bangladesh.  
Visiting at Kyoto University Graduate School of Agriculture.

### MSc Students

**Past**

Diana Llerena Schiffmacher  
Radboud University, Netherlands  
2017

Suriya Selvarajan                      Currently Mathematics Masters student, University of Birmingham, UK  
Indian Institute of Technology Kharagpur  
2016–2017

Ronak Remshawala                      Currently Graduate Student, Griffith University, Australia (John St Jones).  
Indian Institute of Technology Kharagpur  
2015

**Some Current Collaborations**

**Disease Models**

Natalia Sanchez Soriano, University of Liverpool UK  
Chen-Yu Lee, University of Michigan, USA  
Kazuhiro Yamakawa, RIKEN, BSI, Japan  
Daniel Geschwind and Giovanni Coppola, UCLA, USA

**Targeted Cell-Specific Chromatin Profiling; Single Cell Profiling**

Member of FANTOM6  
Piero Carninci and Charles Plessy, RIKEN, Center for Life Science Technologies, Japan.  
Andrea Brand, University of Cambridge, UK.

**Computer Vision Feature Recognition; Imaging, Modelling.**

Pengyu Hong, Brandeis University, USA.  
Hermann Cuntz, Ernst Strüngmann Institute for Neuroscience, Germany  
Ilaria Testa, SciLifeLab, Sweden