Ting-Feng Lin, Ph.D.

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- **Education**

2015-2019	**PhD**, Neuroscience Neuroscience center Zurich (ZNZ), University of Zurich and ETH Zurich, Switzerland Dr. Melody Ying-Yu Huang's lab, University Hospital of Zurich, Switzerland
2010 – 2014	**Master of Science**, Physiology Prof. Chih-Yung Tang's lab, National Taiwan University, Taiwan
2006-2010	**Bachelor of Science**, Sports Medicine China Medical University, Taiwan

- **Work Experience**

2025	**Assistant professor** Utrecht University, Netherlands
2019-2025	**Postdoctoral researcher** Prof. Christian Hansel's lab, University of Chicago, USA Project: Intrinsic and synaptic potentiation contribute to receptive field plasticity in Purkinje cells of the mouse cerebellum
2022	**Journal guest editor** Journal of Visualized Experiments Methods Collection: Image Acquisition in Zebrafish Model
2015	**Research assistant** Prof. Yi-Chuan Cheng's lab, Chang Gung University, Taiwan
2014-2015	**Substitute military service—science fair advisor** Checheng Elementary School, Taiwan
2013-2014	**Research assistant** Prof. Chih-Yung Tang's lab, National Taiwan University, Taiwan

- **Awards**

2025	**2025 JNS award**, Society for Neuroscience
2025	**Medical Research Travel Grant**, Harold Hyam Wingate Foundation Supporting my scientific visit in Prof. Jason Rihel's lab at UCL

2022 **Trainee Professional Development Award**, Society for Neuroscience

2017 **JSPS Young researchers' exchange program**, Japan Society for the Promotion of Science
Project: Study on the cellular mechanism underlying infantile nystagmus syndrome using zebrafish models

- **Research grants**

2017-2018 **IPR Energy Group's Dr. Dabbous Foundation – scholarship** (About 106,430 USD)

2017 **Oxford-McGill-ZNZ Partnership Project Funding**
Project: Persistent optokinetic stimulation induced afternystagmus and oculomotor disorder

2016 **Betty and David Koetser Foundation for Brain Research – research grant.** (About 10,610 USD)
Project: Role of altered retinal pigmentation in visual pathfinding and ocular motor dysfunctions

- **Publications** (*Corresponding author)

1. **Lin TF**, Busch SE, Hansel C. Intrinsic and synaptic determinants of receptive field plasticity in Purkinje cells of the mouse cerebellum. Nat. Commun. 2024.
2. **Lin TF**, Grasselli G, Hansel C. Cellular Mechanisms Underlying Cerebellar Learning. In Byrne JH (Ed.). Learning and Memory: A Comprehensive Reference, 3rd Edition. Elsevier Science. (Book chapter)
3. **Lin TF* (sole corresponding author)**, Huang MY. A quantitative approach to study the adaptation of rhythmic eye movements and the resulting tonic eye deviation in larval zebrafish. J. Neurosci. Res. 2023.
4. **Lin TF* (co-corresponding author)**, Mohammadi M, Cullen KE, Chacron MJ, Huang MY. Optokinetic set-point adaptation functions as an internal dynamic calibration mechanism for oculomotor disequilibrium. iScience. 2022.
5. **Lin TF**, Mohammadi M, Fathalla AM, Pul D, Lüthi D, Romano F, Straumann D, Cullen KE, Chacron MJ, Huang MY. Negative optokinetic afternystagmus in larval zebrafish demonstrates set-point adaptation. Sci Rep. 2019.
6. **Lin TF**, Gerth-Kahlert C, Hanson JVM, Straumann D, Huang MY. Spontaneous nystagmus in the dark in an infantile nystagmus patient may represent negative optokinetic afternystagmus. Front Neurol. 2018.
7. Hsu PH, Chiu YC, **Lin TF**, Jeng CJ. Ca^{2+}-binding protein centrin 4 is a novel binding partner of rat Eag1 K^+ channels. FEBS Open Bio. 2016.
8. **Lin TF**, Jow GM, Fang HY, Fu SJ, Wu HH, Chiu MM, Jeng CJ. The eag domain regulates the voltage-dependent inactivation of rat eag1 k^+ channels. PLoS One. 2014.
9. **Lin TF**, Lin IW, Chen SC, Wu HH, Yang CS, Fang HY, Chiu MM, Jeng CJ. The subfamily-specific assembly of Eag and Erg K^+ channels is determined by both the amino and the carboxyl recognition domains. J Biol Chem. 2014.

In preparation

10. **Lin TF**, Huang MY. Spontaneous nystagmus in darkness in infantile nystagmus zebrafish model *belladonna* may represent negative optokinetic afternystagmus.

- **Scientific presentations**

Talk

1. Seminar at the Department of Translational Neuroscience, UMC Utrecht, Utrecht, Netherlands (10/2025)
   Topic: Intrinsic and synaptic plasticity: beyond a single mechanism of learning and memory
2. 48th Annual Meeting of the Japan Neuroscience Society, Niigata, Japan (7/2025)
   Topic: Predictive PF ramping induced calcium accumulation shift the cerebellar synaptic plasticity

3. Seminar at the Department of Life Sciences, National Tsing Hua University, Hsinchu, Taiwan (11/2024)
   Topic: Intrinsic and synaptic determinants of receptive field plasticity in Purkinje cells of the mouse cerebellum
4. Seminar at the Biology Department, Utrecht University, Utrecht, Netherlands (9/2024)
   Topic: Learning and memory: Beyond a single mechanism
5. Seminar at Swammerdam Institute for Life Sciences, University of Amsterdam, Amsterdam, Netherlands (9/2024)
   Topic: Learning and memory: Beyond a single mechanism
6. Seminar at Graduate Institute of Brain and Mind Sciences, National Taiwan University, Taipei, Taiwan (8/2024)
   Topic: Intrinsic and synaptic determinants of receptive field plasticity in Purkinje cells of the mouse cerebellum
6. Seminar at School of Biosciences, University of Sheffield, Sheffield, UK (07/2024)
   Topic: Intrinsic and synaptic determinants of receptive field plasticity in Purkinje cells of the mouse cerebellum
7. Seminar at Neuroscience Program of Academia Sinica, Taipei, Taiwan (4/2024)
   Topic: Intrinsic and synaptic determinants of receptive field plasticity in Purkinje cells of the mouse cerebellum
8. Seminar at Institute of Neuroscience, National Yang Ming Chiao Tung University, Taipei, Taiwan (4/2024)
   Topic: Intrinsic and synaptic determinants of receptive field plasticity in Purkinje cells of the mouse cerebellum
9. Seminar at Division of Molecular & Cellular Function, University of Manchester, Manchester, UK (02/2024)
   Topic: Intrinsic and synaptic determinants of receptive field plasticity in Purkinje cells of the mouse cerebellum
10. 27th OKULOMOTORIKTREFFEN, Tubingen, Germany (02/2017)
    Topic: Optokinetic set-point sensory adaptation in zebrafish larvae
11. 12th ZIHP Symposium, Zurich, Switzerland (08/2016)
    Topic: Modulation of visual response after L-dopa treatment in zebrafish larvae
12. 26th OKULOMOTORIKTREFFEN, Ulm, Germany (02/2016)
    Topic: Modulation of visual response after L-dopa treatment in zebrafish larvae

<u>Poster</u>

13. 2023 GRC Cerebellum (8/2023)
    Topic: Intrinsic and synaptic determinants of receptive field plasticity in Purkinje cells of the mouse cerebellum
14. 2022 Neuroscience – Society for Neuroscience (11/2022)
    Topic: Intrinsic and synaptic potentiation contribute to receptive field plasticity in Purkinje cells of the mouse cerebellum (**2022 Trainee Professional Development Award**)
15. 2018 Gordon Research Conference on Synaptic Transmission (08/2018)
    Topic: Optokinetic set-point sensory adaptation in zebrafish larvae
16. 28th OKULOMOTORIKTREFFEN, Zurich, Switzerland (02/2018)
    Topic: Negative optokinetic afternystagmus in larval zebrafish demonstrates a set-point adaptation
17. ZNZ Symposium 2017, Zurich, Switzerland (09/2017)
    Topic: Negative optokinetic afternystagmus in larval zebrafish demonstrates a set-point adaptation
18. 10th European ZebraFish Meeting, Budapest, Hungary (07/2017)
    Topic: Optokinetic set-point sensory adaptation in zebrafish larvae
19. ZNZ Symposium 2016, Zurich, Switzerland (09/2016)
    Topic: Oculomotor and perceptual after-responses of optokinetic motion stimulation in zebrafish larvae
20. 10th FENS Forum of Neuroscience, Copenhagen, Denmark (07/2016)
    Topic: Modulation of visual response after L-dopa treatment in zebrafish larvae

- **Teaching Experience**

2017-2018 **Cybernetics Ergonomics**, ETH Zurich – Teaching assistant

2016-2018 **Physiology lab classes** for medical students, University of Zurich – Teaching assistant
Cardiovascular Computer Simulation (Fall 2016), CNS-Motor systems (Spring 2017), Ergometry (Fall 2017), Conduction in Nerves (Spring 2018)

2015 **Aspects of sensory motor transformation: Balance, eye movement control, motion perception**, University of Zurich – Teaching assistant

2010-2011 **Human Physiology Laboratory Course** for medical students, National Taiwan University – Teaching assistant

- **Mentorship**

University of Chicago, USA

2019-present **Silas E. Busch**, PhD student
Let to one publication: Lin, Busch et al. 2023

McGill University, Canada

2017-2022 **Mohammad Mohammadi**, PhD student
Led to two publications: Lin, Mohammadi et al. 2019; Lin, Mohammadi et al. 2022

University of Zurich, Switzerland

2017-2018 **Dennis Luthi**, medical student (MD thesis)
Led to one publication: Lin, Mohammadi et al. 2019

2017 **Duygu Pul**, exchange medical student
Led to one publication: Lin, Mohammadi et al. 2019

2017 **Ahmed M. Fathalla**, exchange student
Led to one publication: Lin, Mohammadi et al. 2019

National Taiwan University, Taiwan

2013-2014 **Hsin-Yu Fang**, master's student
Led to two publications: Lin, Jow et al. 2014; Lin, Lin et al. 2014