Address: 72 E Concord St, Boston, MA 02118, USA Website: taylab.org

Email: tltay@bu.edu ORCiD: 0000-0002-3507-6502

Appointments & Affiliations

2021–	Assistant Professor of Biology, and Anatomy & Neurobiology, Boston University,
	Boston, MA, USA
2020–2021	Associated Expert, DFG Research Training Group MeInBio-BioInMe (GRK 2344)
2019–2020	FRIAS Junior Fellow, Freiburg Institute for Advanced Studies, University of Freiburg
2019–2021	Klaus Tschira Boost Fund Fellow, German Scholars Organisation e. V., Berlin, Germany
2019–2021	Group Leader, Faculty of Biology (Bioinformatics & Molecular Genetics), University of Freiburg
2018–2021	Principal Investigator, Cluster of Excellence BrainLinks-BrainTools, University of Freiburg
Since 2018	Habilitation Candidate, Faculty of Biology (Developmental Biology), University of Freiburg
2017–2021	Lecturer for Developmental Neurobiology, Faculty of Biology, University of Freiburg
2012–2018	Postdoctoral Scientist, Prinz Lab (Neuropathology), University Medical Centre of Freiburg
2011	Postdoctoral Scientist, Zhang Lab (Psychiatry), Columbia University Medical Centre, USA

Education

2005–2010	Doctor rerum naturalium, Driever Lab (Biology), University of Freiburg, Germany
2003–2005	Master of Science, Gong Lab (Biology), National University of Singapore (NUS), Singapore
1998–2002	Bachelor of Applied Science with Honours (Biotechnology), NUS

Awards & Grants

2020–2021 2020–2021	Lead PI, Research Grant, Wissenschaftliche Gesellschaft Freiburg (5,000 €) Co-PI, IMBIT & BrainLinks-BrainTools Centre, Ministry of Economics, Science and Arts of Baden-Württemberg (Sustainability Programme for Projects of the Excellence Initiative II) (100% E13 PhD position ~70,000 €)
2019–2021	Lead PI, Research Innovation Fund, University of Freiburg (20,000 €)
2019–2020	Lead PI, FRIAS Junior Fellowship (21,000 €)
2019–2020	Lead PI, Klaus Tschira Boost Fund GSO/KT 10 (80,000 €)
2019	1 st Prize, Poster Presentation, 6 th Venusberg Meeting on Neuroinflammation, DZNE, Bonn
2019	Lead Co-PI, BrainLinks-BrainTools Project Seed Funds EXC1086 (52,000 €)
2018	Helmut Holzer Research Prize, Wissenschaftliche Gesellschaft Freiburg (10,000 €)
2017	Best Poster Prize, Research Day, University Medical Centre of Freiburg (250 €)
2016–2017	Lead PI, Research Seed Capital, Ministry of Science, Research and the Arts (Baden- Württemberg), Germany (36,500 €)
2015–2018	Lead PI, Bonus Research Funds, University Medical Centre of Freiburg (50,000 €)
2014–2016	Lead PI, German Research Foundation (DFG) Individual Grant TA1029/1-1 (300,800 €)
2013	Lead PI, Research Commission Grant, University Medical Centre of Freiburg (21,000 €)
2005–2008	DFG Research Training Programme GRK 1104 Fellowship, Freiburg
2004	Human Genome Organisation Pacific Fellowship Award
2004	Society of Chinese Bioscientists in America Scholarship
2003–2005	National University of Singapore Research Scholarship

Teaching & Pedagogical Training

2019–2021	Lecturer, "Gender Equality in STEM" (interdisciplinary course, BEng and MEng),
	Faculty of Engineering, University of Freiburg
Jul–Nov 2018	Trainee, Centre for Academic Instruction at Universities (Hochschuldidaktik Zentrum
	Universitäten Baden-Württemberg), "Learning in Research Projects" & "Fit for Teaching -
	Basics of Teaching and Learning at University Level 1 + 2"
Dec 2017	Invited Lecturer, Master course "Advanced Immunology and Diseases", Ecole Normale
	Supérieure de Lyon, France
2017–2021	Lecturer, Developmental Neurobiology, Faculty of Biology, University of Freiburg
	General & Neural Developmental Biology (MSc Biology and Neuroscience)
	Development of the Nervous System (MSc Biology and Neuroscience)
	Establishing the Nervous System (MSc Biology and Neuroscience)
	Methods in Developmental Neurobiology (MSc Biology and Neuroscience)

Developmental Neurobiology Lab Projects (MSc Biology and Neuroscience)
Aberrant signaling in human diseases: from mechanism to therapy (MSc Biology)
Developmental Biology and Genetics (MSc Biology)
Signaling in aging, cancer and age-related diseases (BSc Biology)
Laboratory Course Trainer, 10th Biomedical Students' Symposium, University of Freiburg
Teaching Assistant, Year 2 & 3 courses, Department of Biological Sciences, NUS, Singapore

Project Supervision

2021–	Graduate Student Advisor, Ouzéna Bouadi, Boston University
2021–	Graduate Student Advisor, Amritha V. Manjally, Boston University
2021–	Thesis Advisory Committee, Sarah A. DeVries, Rosene Lab, Boston University
2020–	Thesis Advisory Committee, Jia-Di Lin, Schachtrup Lab, University of Freiburg
2020-	Thesis Advisory Committee, Rhushikesh A. Phadke, Cruz-Martín Lab, Boston University
2017–2021	Supervisor, 7 MSc (laboratory rotation/thesis) in Neuroscience or Developmental Biology
	programmes, 2 research assistants, 2 technical assistants, University of Freiburg
2008–2018	Co-supervisor, 2 PhD, 1 medical PhD, 1 Erasmus, 5 MSc and 7 BSc students; 3 technical assistants, University of Freiburg & University Medical Centre of Freiburg

Conference & Seminar Presentations

Apr 2020Initial Speaker (postponed), Brain and Mind Research Institute, University of Ottawa, CanadaApr 2020Invited Speaker (postponed), Brain and Mind Research Institute, University of Ottawa, CanadaApr 2020Invited Speaker (postponed), Department of Immunology, University of Toronto, CanadaApr 2020Invited Speaker (virtual), Douglas Research Centre, McGill University, Montreal, CanadaFeb 2020Invited Speaker, Oerman Scholars Organisation e.V. Reception & Workshop, Berlin, GermanyOct 2019Speaker, German Scholars Organisation e.V. Reception & Workshop, Berlin, GermanyOct 2019Speaker, Freiburg Institute for Advanced Studies (FRIAS) Retreat, Titisee, GermanySep 2019Speaker, Freiburg Institute for Advanced Studies (FRIAS) Retreat, Titisee, GermanyNay 2019Invited Speaker, Theodore Koch Institute, University of Bern, Bern, SwitzerlandMay 2019Speaker, Birain Tools Annual Workshop 2019, University of Freiburg, GermanyNov 2018Key Speaker (German), Commemorative Event for Helmut-Holzer Prize Award, Freiburg, GermanyNov 2018Speaker, Ha'in International Congress of Neuroimmunology, Birbane, AustraliaMay 2018Speaker, Ha'in International Congress of Neuroimmunology, Birbane, AustraliaMay 2018Speaker (Habilitation), Faculty of Biology, University of Freiburg, GermanyMar 2018Speaker, Hawiti ut Fer à Moulin, INSERM-UPMC, Paris, FranceSep 2017Speaker, Isitiut du Fer à Moulin, INSERM-UPMC, Paris, FranceSep 2017Speaker, Neurotech Seminar, University of Strasbourg, FranceMay 2017Invited Speaker, Neurotech Seminar, University of Strasbourg, France <tr< th=""><th>Oct 2021 Dec 2020 Sep 2020 Jul 2020 Apr 2020</th><th>Invited Panellist (virtual), EMBO Workshop Microglia 2021, Heidelberg, Germany Invited Speaker (virtual), Washington University Glia Group, St Louis, MO, USA Invited Speaker (virtual), ACTRIMS-ECTRIMS 2020 Meeting, Washington DC, USA Selected Poster Presenter, CSHL Virtual Meeting: Glia in Health & Disease, NY, USA Invited Speaker (postponed), Centre de recherche du CHU de Québec-Université Laval,</th></tr<>	Oct 2021 Dec 2020 Sep 2020 Jul 2020 Apr 2020	Invited Panellist (virtual), EMBO Workshop Microglia 2021, Heidelberg, Germany Invited Speaker (virtual), Washington University Glia Group, St Louis, MO, USA Invited Speaker (virtual), ACTRIMS-ECTRIMS 2020 Meeting, Washington DC, USA Selected Poster Presenter, CSHL Virtual Meeting: Glia in Health & Disease, NY, USA Invited Speaker (postponed), Centre de recherche du CHU de Québec-Université Laval,
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Scientific Management, Mentorship & Outreach

2020–	Member, DEIJ (Diversity, Equity, Inclusion, and Justice) Committee, Department of Anatomy &
2020–2022	Neurobiology, Boston University School of Medicine Organiser, Virtual Microglia Symposium & Women In STEM Forum, Guest speakers: Dr. Soyon Hong, University College London, UK; Prof. Marie-Ève Tremblay, University of Victoria, Canada; Dr. Kanchan Bisht, University of Virginia, USA; Dr. Monique Mendes, Stanford University, USA
2020	Member, Selection Committee for Tenure-track Junior Professorship – Plant Developmental Signalling, Faculty of Biology, University of Freiburg
Oct 2020	Jury, Poster Competition, "Medicine – Informatics – Biology: how NGS brings us together", University of Freiburg
2020	Mentor, CyberMentor Programme for High School Female Pupils, Germany
2019–2020	Seminar Host (Biological Colloquium, University of Freiburg): Dr. Franziska Denk, King's College London, UK; Dr. Giuseppe Locatelli, Theodor Kocher Institute, Bern, Switzerland
2019–	Workshop Trainer: "Scientific Writing", "CV Writing", "Project Management", "Leadership", "Team-building", "Time Management", Scientific Communication", "Career Planning & Negotiation"
2018–2019	Participant of workshops: "How to build your lab", "Storytelling in Presentations", "Effective Presentation & Rhetoric", "Funding Opportunities of the ERC", "Die erste Berufung auf eine Professur - Berufungsverhandlungen meistern", "Interactive Training & Teaching Strategies", "Sicherheit in der Gentechnik (§ 15 GenTSV)"
2018–2019	Young Scientist, BrainLinks-BrainTools R3 Coaching Programme, University of Freiburg
2018–	Founder & Mentor, Diversity in STEM Postdocs peer mentoring group (formerly "Women in STEM Postdocs"), Freiburg, Germany
2018	Seminar Host (Neuropathology, University of Freiburg): Asst. Prof. Anne Roumier, Pierre and Marie Curie University / Institut du Fer à Moulin, Paris, France; Prof. V. Wee Yong, University of Calgary, Canada
Jan 2017	Organiser, Speaker & Panellist, "Do I believe in the 'glass ceiling'? Women in STEM" full-day workshop for undergraduates, graduates and postdocs, University of Freiburg, Germany
2012–2021	Principal Investigator, animal work licences (Regional Council of Freiburg), Felasa B
2012–2020	Mentor, Singapore Students' Association in Germany (SSAG)

Professional Memberships

2020–	Member, Federation of European Neuroscience Societies (FENS)
2020–	Member, German Neuroscience Society (Neurowissenschaftliche Gesellschaft, NWG)
2018–	Member, International Society of Neuroimmunology (ISNI)
2018–	Member, SciNet, a Network for Young Scientists and Academics, Freiburg, Germany
2013–	Member, Neurex: Neuroscience Upper Rhine Network (France, Germany, Switzerland)

Editorial Work & Grant Review

2019–2021	Frontiers in Immunology Research Topic Lead Editor, "Understanding the Roles of Glia and Circulating Leukocytes in Neurodegenerative Diseases"
2019–	Grant Reviewer, "la Caixa" Foundation, Spain; Medical Research Council, UK; Welcome Trust, UK
2018–	Reviewer, Nature Neuroscience, Frontiers in Immunology, Frontiers in Neurology, Frontiers in Molecular Neuroscience, Neuroscience Letters
2017–	Invited Commentator, Alzforum (Alzheimer Research Forum)
2014–2018	Co-reviewer, Immunity, Developmental Cell, Cell Reports, UK BBSRC grant
2008–2009	Editor, Development & Communication, University of Helsinki
	(via the Finnish-German Doctoral Training Network in Developmental Biology "FinGerDevNet")

List of Publications

h-index: **16**; total citations 25th November 2021: **2909** (Google Scholar) *corresponding author, [#]co-first author

Bouadi O, <u>Tay TL</u>* (2021) More than cell markers: understanding heterogeneous glial responses to implantable neural devices. *Front Cell Neurosci*, 15: 658992.

<u>**Tay TL**</u>*, Carrier M, Tremblay MÈ* (2019) Physiology of Microglia. In: Verkhratsky A., Ho M., Zorec R., Parpura V. (eds) Neuroglia in Neurodegenerative Diseases. *Advances in Experimental Medicine and Biology*, vol 1175. Springer, Singapore

Jordão MJC, Brendecke SM, Sankowski R, Sagar, Locatelli G, Tai Y-H, <u>Tay TL</u>, Schramm E, Armbruster S, Hagemeyer N, Mai D, Çiçek Ö, Falk T, Kerschensteiner M, Grün D, Prinz M (2019) Single-cell profiling of the myeloid compartment identifies new cell populations with distinct fates during neuroinflammation. *Science*, 363: eaat7554.

Falk T, Mai D, Bensch R, Çiçek Ö, Abdulkadir A, Marrakchi Y, Böhm A, Deubner J, Jäckel Z, Seiwald K, Dovzhenko A, Tietz O, Dal Bosco C, Walsh S, Saltukoglu D, <u>Tay TL</u>, Prinz M, Palme K, Simons M, Diester I, Brox T, Ronneberger O (2019) U-Net: deep learning for cell counting, detection, and morphometry. *Nat Methods*, 16: 67-70.

Shemer A[#], Grozovski J[#], <u>Tay TL</u>[#], Tao J, Süß P, Volaski A, Gross M, Kim J-S, David E, Chappell-Maor L, Thielecke L, Glass CK, Cornils K, Prinz M, Jung S (2018) Engrafted parenchymal brain macrophages differ from host microglia in transcriptome, epigenome and responsiveness to challenge. *Nat Commun*, 9: 5206.

Tay TL*#, Sagar#, Dautzenberg J, Grün D*, Prinz M* (2018) Unique microglia recovery population revealed by single-cell RNAseq following neurodegeneration. *Acta Neuropathol Commun*, 6: 87.

Datta M, Staszewski O, Raschi E, Frosch M, Hagemeyer N, <u>Tay TL</u>, Blank T, Kreutzfeldt M, Merkler D, Ziegler-Waldkirch S, Matthias P, Meyer-Luehmann M, Prinz M (2018) Histone deacetylases 1 and 2 regulate microglia function during development, homeostasis and neurodegeneration in a context-dependent manner. *Immunity*, 48(3): 514-529.

Weinhard L, d'Errico P, <u>Tay TL</u>* (2018) Headmasters: microglial regulation of learning and memory in health and disease. *AIMS Mol Sci*, 5: 63-89.

<u>**Tay TL**</u>*, Béchade C, d'Andrea I, St-Pierre M-K, Henry MS, Roumier A*, Tremblay M-È* (2018) Microglia gone rouge: impacts on psychiatric disorders across the lifespan. *Front Mol Neurosci*, 10: 421.

Tay TL*, Mai D, Dautzenberg J, Fernandez-Klett F, Lin G, Sagar, Datta M, Drougard A, Stempfl T, Ardura-Fabregat A, Staszewski O, Margineanu A, Sporbert A, Steinmetz L, Pospisilik JA, Jung S, Priller J, Grün D, Ronneberger O, Prinz M* (2017) A new fate mapping system reveals context-dependent random or clonal expansion of microglia. *Nat Neurosci*, 20(6): 793-803.

<u>Tay TL</u>*, Savage JC, Hui CW, Bisht K, Tremblay M-È* (2017) Microglia across the lifespan: from origin to function in brain development, plasticity and cognition. *J Physiol*, 595(6): 1929-1945.

Tay TL, Hagemeyer N, Prinz M (2016) The force awakens: insights into the origin and formation of microglia. *Curr Opin Neurobiol*, 39: 30-37.

Goldmann T, Zeller N, Raasch J, Kierdorf K, Frenzel K, Ketscher L, Basters A, Staszewski O, Brendecke SM, Spieß A, <u>Tay TL</u>, Kreutz C, Timmer J, Mancini GMS, Blank T, Fritz G, Biber K, Lang R, Malo D, Merkler D, Heikenwalder M, Knobeloch K-P, Prinz M (2015) USP18 lack in microglia causes destructive interferonopathy of the mouse brain. *EMBO J*, 34(12): 1612-1629.

Prinz M, <u>Tay TL</u>, Wolf Y, Jung S (2014) Microglia: unique and common features with other tissue macrophages. *Acta Neuropathol*, 128(3): 319-331.

Goldmann T, <u>Tay TL</u>, Prinz M (2013) Love and death: microglia, NLRP3 and the Alzheimer's brain. *Cell Res*, 23(5): 595-596.

Tay TL, Ronneberger O, Ryu S, Nitschke R, Driever W (2011) Comprehensive catecholaminergic projectome analysis reveals single-neuron integration of zebrafish ascending and descending dopaminergic systems. *Nat Commun*, 2: 171.

Tay TL, Lin Q, Seow TK, Tan KH, Hew CL, Gong Z (2006) Proteomic analysis of protein profiles during early development of the zebrafish, *Danio rerio*. *Proteomics*, 6(10): 3176-3188.

Gong Z, Wan H, <u>Tay TL</u>, Wang H, Chen M, Yan T (2003) Development of transgenic fish for ornamental and bioreactor by strong expression of fluorescent proteins in the skeletal muscle. *Biochem Biophys Res Comm*, 308(1): 58-63.