

University of Glasgow, G12 8QQ, UK

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Experimental & computational biologist interested in RNA regulation in development, disease and infection.

Employment

Postdoctoral Researcher Glasgow, UK

University of Glasgow

2023 - present

2022 - 2023

• TDP-43 mediated RNA mislocalisation in Amyotrophic Lateral Sclerosis (ALS)

Postdoctoral Researcher Oxford, UK

University of Oxford

- RNA localisation and post-transcriptional regulatory control in neural development
- Single-molecule level visualisation of viral RNA replication dynamics

Education

University of Oxford | PhD/DPhil Biochemistry

Oxford, UK

SUPERVISOR: PROFILAN DAVIS

2017 - 2022

University of Cambridge | MPhil Biological Science

Cambridge, UK

SUPERVISOR: PROF GUY BROWN

2016 - 2017

Imperial College London | BSc Biochemistry

London, UK

FIRST CLASS HONOURS

2013 - 2016

Skills

Molecular Biology RNA and Protein Biochemistry, Sequencing library preparations (iCLIP, 4sU-seq)

Bioinformatics Programming (R, Python, Snakemake), Transcriptomics data analysis (bulk or scRNA-seq, iCLIP) **Microscopy** RNA-FISH (smFISH, HCR), Single-molecule image analysis, Colocalisation, Segmentation

Fly Genetics Fly transformation, Tissue dissection

Publications

LEAD AUTHOR PUBLICATIONS

CONTRIBUTING PUBLICATIONS

Lee, JY., Huang, N., Samuels, TJ., & Davis, I. (2024). Imp and Syp in vivo temporal RNA interactomes uncover networks of temporal regulators of Drosophila brain development.. bioRxiv. 2024.06. 30.600407

Titlow, JS., Kiourlappou, M., Palanca, A., Lee, JY., Gala, DS., Ennis, D., Yu, JJS., & ... (2023). Systematic analysis of YFP traps reveals common mRNA/protein discordance in neural tissues. *Journal of Cell Biology*. 222 (6), e202205129

Lee, JY., Wing, PAC., Gala, DS., Noerenberg, M., Järvelin, AI., Titlow, J., & ... (2022). Absolute quantitation of individual SARS-CoV-2 RNA molecules provides a new paradigm for infection dynamics and variant differences. Elife. 11, e74153

Wickenhagen, A., Sugrue, E., Lytras, S., Kuchi, S., Noerenberg, M., Turnbull, ML., & ... (2021). A prenylated dsRNA sensor protects against severe COVID-19. Science. 374 (6567), eabj3624

Kamel, W., Noerenberg, M., Cerikan, B., Chen, H., Järvelin, Al., Kammoun, M., & ... (2021). Global analysis of protein-RNA interactions in SARS-CoV-2-infected cells reveals key regulators of infection. *Molecular cell*. 81 (13), 2851-2867. e7

Wing, PAC., Keeley, TP., Zhuang, X., **Lee, JY.**, Prange-Barczynska, M., & ... (2021). Hypoxic and pharmacological activation of HIF inhibits SARS-CoV-2 infection of lung epithelial cells. *Cell reports*. 35 (3)

Puigdellívol, M., Milde, S., Vilalta, A., Cockram, TOJ., Allendorf, DH., **Lee, JY.**, & ... (2021). The microglial P2Y6 receptor mediates neuronal loss and memory deficits in neurodegeneration. *Cell Reports*. 37 (13)

Samuels, TJ., Arava, Y., Järvelin, Al., Robertson, F., **Lee, JY.**, Yang, L., Yang, CP., & ... (2020). Neuronal upregulation of Prospero protein is driven by alternative mRNA polyadenylation and Syncrip-mediated mRNA stabilisation. *Biology open*. 9 (5), bio049684

Yi, JH., Brown, C., Whitehead, G., Piers, T., Lee, YS., Perez, CM., Regan, P., & ... (2017). Glucocorticoids activate a synapse weakening pathway culminating in tau phosphorylation in the hippocampus. *Pharmacological research*. 121, 42-51

Professional service _____

Peer review

DEVELOPMENT, EMBO REPORTS, PLOS ONE

Symposium & Conferences

ORGANISATION

- 2015 UK-Korea Neuroscience Symposium, University of Cambridge
- 2015 London Health Forum 2015, KHIDI
- 2014 London Health Forum 2014, MRC KHIDI

Teaching.

MSc Infection & Immunity project supervision

University of Glasgow 2024 - 2024

MBiochem Biochemistry project supervision

University of Oxford 2020 - 2022

MSc Neuroscience project supervision

University of Oxford 2017 - 2018

Certificates & Awards _____

2023	Silver Award - Micron Imaging Competition	University of Oxford
2017	Clarendon DPhil Scholarship	University of Oxford
2016	Dean's List for Life Sciences	Imperial College
2016	Conveners' Prize for Integrative Systems Biology	Imperial College
2016	Conveners' Prize for Biotechnology Application of Proteins	Imperial College

Pre-PhD employment

Korea Health Industry Development Institute (KHIDI)

Part-time Intership 2013 - 2017

British Embassy Intern

Science & Innovation network intership

Apr 2013 - Jun 2013

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