
Dr Lotte Pearne Watts, PhD

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Career Outline

December 2020 – present **University of Colorado-Boulder** **Boulder, CO, USA**
Postdoctoral research associate (Lab: Spencer Lab)

October 2019 – November 2020 **University of Aberdeen** **Aberdeen, UK**
Research fellow (Lab: Donaldson-Hiraga Lab)

September 2015 – September 2019 **University of Aberdeen** **Aberdeen, UK**
PhD Molecular Cancer Biology (Lab: Donaldson-Hiraga Lab)

Thesis subject: The role of RIF1 in protecting cells from replication stress

June 2017 – Aug 2017 **National Institute of Genetics** **Mishima, Japan**
Japan Society for the Promotion of Science (JSPS) Summer Programme Studentship
(Supervisor: Professor Masato Kanemaki)

Studentship project: Constructing RIF1-degron cell lines

September 2014 – September 2015 **University of Dundee** **Dundee, UK**
MRes Cancer Biology (Distinction) (Supervisor: Professor Kevin Hiom)

Investigating the role of NONO in the DNA damage response

September 2010 – June 2014 **University of Stirling** **Stirling, UK**
BSc (Hons) in Cell Biology (2:1) (Supervisor: Professor Timothy Whalley)

The effect of immune challenge on 185/333 protein expression in *Paracentrotus Lividus*

Publications

Mansi Arora, Justin Moser, Mingwei Min, Monica Musteanu, Lotte P. Watts, Timothy E. Hoffman, Jordan Schneider, Manuel Sanclemente, Stephen Dann, Sherry Niessen, John Lapek, Lisa Nguyen, Yao Rong, Todd VanArsdale, Mariano Barbacid, Nichol Miller, Sabrina L. Spencer. (2022) Rapid adaptation to CDK2 inhibition via CDK4/6-mediated phosphorylation of Rb.[Submitted]

Kyle N Klein, Peiyao A Zhao, Xiaowen Lyu, Takayo Sasaki, Daniel A Bartlett, Amar M Singh, Ipek Tasan, Meng Zhang, Lotte P Watts, Shin-Ichiro Hiraga, Toyooki Natsume, Xuemeng Zhou, Timour Baslan, Danny Leung, Masato T Kanemaki, Anne D Donaldson, Huimin Zhao, Stephen Dalton, Victor G Corces, David M Gilbert. (2021) Replication timing maintains the global epigenetic state in human cells. *Science*. 72(6540):371-378

Watts, LP., Natsume, T., Yuichiro, S., Garzon, J., Kanemaki, MT., Hiraga, SI., Donaldson, AD. (2020) The long RIF1 splice variant protects against replication stress by promoting 53BP1 nuclear body formation in the subsequent G1 phase. *eLife*. 9:e58020

Conference Presentations

10/07/2019: 'The long RIF1 splice variant protects cells from replication stress by promoting 53BP1 nuclear body formation in the following G1 phase' (Poster presentation). GRC Cell Growth and Proliferation, West Dover, VT, US.

07/07/2019: 'How RIF1 splice variants protect cells from replication stress' (Oral Presentation). GRS Cell Growth and Proliferation, West Dover, VT, US.

08/05/2019: 'RIF1 in replication stress: the Long and the Short of it' (Oral Presentation). Scottish DNA Replication Network Meeting, St Andrews, UK.

11/01/2019: 'The long RIF1 splice variant protects cells from immediate and delayed effects of replication stress' (Oral presentation). Genome Stability Network Meeting, Cambridge, UK.

30/05/2018: 'Differential function of human RIF1 splicing variants in replication stress' (Oral presentation). Scottish DNA Replication Network Meeting, St Andrews, UK.

16/06/2017: 'How and when does the RIF1 protein protect cells against drugs that block DNA replication?' (Poster presentation). JSPS Orientation Session, Kanagawa, Japan.

Grants and Fellowships

2019: Molecular Medicine Programme Funds, University of Aberdeen, UK - £450

2019: Junior Scientist Conference Grant, Genetics Society, UK - £750

2017: Awarded the Japan Society for the Promotion of Science (JSPS) Summer Programme Fellowship. This entailed undertaking research in Japan in the Kanemaki Lab (National Institute of Genetics, Mishima) for a two-month period.

Additional Training

06-07/11/2018: '*Advanced Data Analysis Workshop*'- University of Aberdeen.

14/09/2017: '*Imaging Flow Cytometry Workshop*' – University of Aberdeen.

08-09/02/2017: '*Flow Cytometry Training Course*' – University of Aberdeen.

2017-2018: Organizing committee for the Biannual Postgraduate Research Conference for the School of Medicine, Medical Sciences and Nutrition, University of Aberdeen (organized Winter 2017, Summer 2018 and Winter 2018 conferences).

Teaching Experience

2016 – 2019: Assisting in the supervision of Undergraduate and PhD student projects.

2015 – 2018: Demonstrating on Undergraduate (including marking) and Masters courses. Courses included 'The Cell' (1st year), 'Genes and Evolution' (2nd year), 'Microbes, Infection and Immunity' (2nd year), and 'Bioinformatics' (Masters).

Public Engagement

26-27/05/2018: Cancer Research UK Relay for Life, Shetland, UK. Information and activity stall.

11/04/2017: Aberdeen Science Centre Workshop, Aberdeen, UK. CRUK information and activity stall.

13/06/2016: CRUK Race for Life, Aberdeen, UK. Invited speaker and race starter.

Referees

Professor Anne Donaldson

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Professor Kevin Hiom

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Professor Masato Kanemaki

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