



Example of an Academic CV

Stephanie Rait

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30 Perth Street, Dundee, DD1 4EF

Highly motivated cancer biologist currently completing a PhD under the prestigious Cancer Research UK studentship at the University of Dundee. My research focuses on the discovery of novel biomarkers in triple-negative breast cancer, with the ultimate aim of identifying new molecular targets for targeted therapies. I am eager to contribute to cutting-edge research and contribute to the academic community through teaching and engagement activities.

Education

2019 - 2023

PhD Cancer Research UK 4-year studentship

University of Dundee, School of Medicine

Supervisors: Professor Paul Petty and Dr Thomas Peck

Thesis: 'Proteomic approaches to novel biomarker discovery in triple negative breast cancer'

Project involves the use of cutting-edge proteomic approaches and high-resolution fluorescence microscopy, in both human culture cells and animal models, to investigate potential disease biomarkers in aggressive breast cancer. Results from this work aim to uncover new molecular targets for potential development of targeted therapies.

Key Lab Skills:

- Mass Spectrometry: LC-MS and MALDI-TOF
- Cell Biology: SILAC labelling, Cell Culture, Molecular Cloning (including stable cell line production), Gene Expression Analysis (qPCR)
- Protein Analysis: Immunofluorescence Microscopy and Western Blotting

Key Achievements and Awards:

- Research published in prestigious peer reviewed journals
- Data presented at national and international conferences
- Patent filed for novel breast cancer biomarker
- Poster prize for best poster at postgraduate student symposium (2015)
- BACR/CRUK student travel award (2014)

2017 - 2019

MSc Cancer Biology

Newcastle University

Modules included: Principles of Cancer Biology, Cell Signalling in Cancer, Cancer Therapeutics and Drug Discovery, and Research Methodologies

Thesis: 'Investigating the tumour suppressor function of PTEN in UV-induced skin cancers'

Supervisor: Dr Melanie Omar

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2013-2017

BSc (Hons) Biomedical Sciences

University of Edinburgh

Modules included: Cancer Biology and Medicine, Inflammation and Tissue Repair, Development and Disease and Critical Analysis Skills

Honours project. Supervisor Dr Ana Tevez Peralta

'The role of phosphorylation in BUB1 recruitment to spindle checkpoints'

Research Experience

Summer 2015

British Society for Cell Biology (BSCB) Summer Vacation Studentship

8-week placement in the laboratory of Dr Debra Fish at the University of Edinburgh working on proteins involved in nuclear transport.

- Introduction to work within a research lab and the use of techniques such as cell culture, protein purification, immunolabelling and confocal microscopy
- Results and analysis written up in report and submitted to BSCB
- Delivered presentation of results to department at the end of the placement

Teaching Experience

2020-2023

University of Dundee PhD Teaching Responsibilities

- Responsible for the direct supervision of undergraduate students during their Honours projects in the lab
- From 2021, acted as mentor to junior PhD students and ran PhD journal club withing my lab
- Regularly assist the preparation and delivery of undergraduate practical classes and, since 2021 have been given responsibility for my own tutorial group.

Courses and Training

- Create and Inspire - Science Communication workshop at Dundee Science Centre (2019)
- Careers in Academia - Vitae event, London (2019)
- FEBS Advanced Proteomics workshop - Cambridge Centre for Proteomics, University of Cambridge (2018)
- Innovation for the Nation - 2-day workshop on commercialisation of research, University of Glasgow (2018)
- Introduction to 21st Century Mass Spectrometry - a 2-week intensive training course in mass spectrometry and proteomic methods, EMBL Heidelberg (2016)

Additional Skills and Positions of Responsibility

- Languages - Fluent in German and currently learning Spanish
- IT - Highly experienced in proteomic analysis software, particularly MaxQuant. Extensive experience of Microsoft Office packages and statistical software including GraphPad Prism and SPSS. High level ability in Adobe Photoshop.
- Co-chair of Life Sciences student association
- Divisional representative on staff-student liaison committee

Professional Affiliations

- Student member of The British Association for Cancer Research (BACR)

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Public Engagement and Outreach Activity

- Cancer Research UK – Volunteer, fundraiser and participant in events such as Race for Life. This has included giving a talk about my research at events (2019-2022)
- Science in the City – public engagement activities at Dundee Science Centre including speaking about research to the public and performing interactive experiments (2018)

Patents

- WO76768449 - Novel protein complexes as molecular targets in breast cancer

Conferences and Meetings

- National Cancer Research Institute (NCRI) Conference - Liverpool, UK, 1-4 November 2019 (oral presentation)
- American Association for Cancer Research (AACR) Annual Meeting - Philadelphia, USA, 18-22 April 2019 (poster presentation)
- British Society for Investigative Dermatology (BSID) – Exeter University, 16 -18 April 2017 (poster presentation)

Publications

Rait, S., Petty, P. and Peck, T. Proteomics in Cancer Biomarker Discovery (Review). *Manuscript in preparation*.

Rait, S., Petty, P. and Peck, T. Identification of Large Multiprotein Signalling Complexes for Therapeutic Targeting in Triple Negative Breast Cancer. *Manuscript in review*.

Brown, T., Smith, E., Rait, S., Jones, D. Peck, T. and Petty, P. (2020) Characterisation of Key Protein – Protein Interactions in Breast Cancer Cell Transformation. *Cancer Cell* 52(9), 1057-1072.

Rait, S., Brown, T., Peck, T., Petty, P. (2020) Overexpression of Tyrosine Kinase Signalling Pathway in Development of Aggressive Breast Cancer. *Br J Cancer* 34(12), 456-450.

Kray, Z., Roberts, P., Rait, S., Blanc, L., and Omar, M. (2019) PTEN Mutations Correlate With Disease Severity in Melanoma. *J Invest Dermatol* 132(8), 322-330.

References

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Wellcome Trust Centre for
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University of Edinburgh
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