


CHIARA HERZOG, PH.D.

King's Prize Fellow
King's College London

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SUMMARY

Experienced and award-winning researcher interested in personalised health monitoring and ageing research. Explore my full CV on my website under chiaraherzog.github.io.

KEY TOPICS

-  epigenetics & biomarkers
-  multi-omic human studies
-  disease risk prediction
-  ageing research and women's cancer

EDUCATION

2015 – 2019	Ph.D in Neuroscience	University of Edinburgh, UK
2014 – 2015	M.Sc by Research in Integrative Neuroscience (<i>distinction</i> ★)	University of Edinburgh, UK
2011 – 2014	B.Sc. in Molecular Medicine (<i>distinction</i> ★) graduated from degree top of my class aged 19; joint classes with medical school	Innsbruck Medical University, AT

EXPERIENCE (SELECTED)

2024 – current	King's Prize Fellow • establishing an independent research program	King's College London, UK
2020 – current	Postdoc/senior scientist and lecturer • Lead of computational biology team at the European Translational Oncology Prevention and Screening Institute; analysis of high-dimensional omics data for disease risk prediction, including development of new classifiers and clinical resulting in patents and real-world application • Co-PI of a human multi-omic intervention trial; in charge of conception, development, and execution of several scientific studies • Teaching and course material development, supervision of staff and students	Universität Innsbruck, AT
2023 – current	Executive committee member • Scientific roadmap development to translate biomarkers of aging into clinically useful tools • Key involvement since 2022, including consensus-building manuscripts and conference organisation	Biomarkers of Aging Consortium, US
2019 – 2020	Associate business development manager • Scientific liaison for research collaborations at omics-based precision diagnostics company	BioClavis Ltd., Glasgow, UK
2019 – 2019	Postdoctoral researcher • Investigated immune-derived signalling factors involved in neuroprotection using molecular and computational methods (gene expression analysis, <i>in vivo</i> CRISPR/Cas9, microscopy, data analysis)	University of Edinburgh, UK
2015 – 2019	Ph.D. researcher • Explored the immune system's contribution to central nervous system repair in a regenerative organism (<i>D. rerio</i>) using molecular, cellular, and computational tools (<i>in vivo</i> confocal timelapse microscopy, RNA-seq/qRT-PCR, pharmacological and genetic perturbations, computation analysis) • Awarded a travelling fellowship for two-month visit to collaborating research institution • Selected to present at scientific conference (the only Ph.D. student to present among senior postdocs and group leaders)	University of Edinburgh, UK
2014 – 2015	M.Sc. researcher • Extensive biochemical analysis of evolutionary conservation of synaptic protein complexes	University of Edinburgh, UK

PUBLICATIONS (SELECTED)

* denotes joint first authorship. A full list of my >20 peer-reviewed articles can be found on [Google Scholar](#) and [my website](#).

2024	Challenges and Recommendations for The Translation of Biomarkers of Aging Herzog C* , Goeminne L*, Poganik JR*, ..., & Gladyshev VN. (10.1038/s43587-024-00683-3). <i>forthcoming</i>	Nature Aging
2024	Cell- and exposure-specific DNA methylation changes in response to cigarette smoking indicate shared carcinogenic mechanisms with e-cigarette use Herzog C , ..., & Widschwendter M. (10.1158/0008-5472.CAN-23-2957)	Cancer Research
2024	Validation of Biomarkers of Aging Moqri M*, Herzog C* , Poganik JR*, ..., & Gladyshev VN (10.1038/s41591-023-02784-9)	Nature Medicine

2023	Biomarkers of Aging for the Identification of Longevity Interventions Moqri M*, Herzog C*, Poganik JR*, ..., & Gladyshev VN (10.1016/j.cell.2023.08.003)	Cell
2023	Performance of the WID-qEC test versus sonography to detect uterine cancers in women with abnormal uterine bleeding (EPI-SURE) Evans, ..., Herzog C, Jurkovic D, & Widschwendter M. (10.1016/S1470-2045(23)00466-7)	Lancet Oncology
2023	DNA methylation at quantitative trait loci (mQTLs) varies with cell type and nonheritable factors and may improve breast cancer risk assessment Herzog C, ..., & Widschwendter M. (10.1038/s41698-023-00452-2)	npj Precision Oncology
2022	A Simple Cervicovaginal Epigenetic Test for Screening and Rapid Triage of Women With Suspected Endometrial Cancer: Validation in Several Cohort and Case/Control Sets Herzog C*, Marin F, ... & Widschwendter M. (10.1200/JCO.22.00266)	Journal of Clinical Oncology
2022	The WID-BC-index identifies women with primary poor prognostic breast cancer based on DNA methylation in cervical samples Barrett J*, Herzog C*, ... & Widschwendter M. (10.1038/s41467-021-27918-w)	Nature Communications

AWARDS

2024	Basic Science Research Award	ÖGMBT (Austrian Society for Molecular Biotechnology), AT
2024	Prof. Anthony Mellows Medal & King's Prize Fellowship (offered)	King's College London, UK
2024	Young Scientist Award	Austrian Society for Gynaecologic Oncology, AT
2024	Prof. Ernst Brandl Prize	Ernst Brandl Stiftung, AT
2022	Falling Walls Lab Winner	Falling Walls Austria, AT
2018	Runner up Student Publication of the Year	Scottish Newspaper Society, UK

MENTORSHIP AND TEACHING (SELECTED)

2023 – current	Cell cycle and tumour biology • Development of new materials and lecturing	B.Sc. Biology – Universität Innsbruck, AT
2022 – current	Epigenetics and cancer • Developed new month-long module on translational cancer research, focusing on omics for personalised cancer risk monitoring and early detection; including clinical study design, biomarkers, biobanking, ethics	M.Sc. Molecular and Cellular Developmental Biology – Universität Innsbruck, AT

FUNDING

2015 – 2018	Competitive Ph.D. Scholarship	University of Edinburgh, UK
2016	Travelling Fellowship Grant for two-month exchange to LMU Munich	Company of Biologists, UK

INVITED TALKS – CONFERENCES (SELECTED)

2024	Biomarkers of Aging for Geroscience Interventions (Keynote)	Joint Congress, German Gerontology/Geriatry Soc.
2024	The Path to Biomarker Standardization (Keynote)	Foresight Institute Vision Weekend EU
2024	Biomarkers of Aging Consortium: Establishing Reliable Biomarkers of Aging	GRC Systems Aging, ES
2022	Discordance in general & epithelial ageing signatures indicates hormone-mediated cancer risk Mechanisms of Aging	CSHL

INVITED TALKS – OUTREACH AND POLICY (SELECTED)

2024	Epigenetics and ageing biomarkers	Long Night of Museums, Futurium Berlin, DE
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PRESS & MEDIA (SELECTED)

2024	Epigenetic impact of smoking and vaping (live TV interview)	Sky News
2024	Vaping 'linked to cancer and damages body like smoking'	Front page article in The Times
2023	Womb cancer 2023 test breakthrough 'cuts diagnosis time'	The Standard Tech & Science Daily Podcast

CONFERENCE ORGANISATION

2024	Biomarkers of Aging Conference	Harvard Medical School, US
2023	Biomarkers of Aging Symposium	The Buck Institute, US