

Arilena Drovik

PhD Molecular Biology
Senior Scientist | Consultant | Scientific Writer

Contact

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Professional Role

Accomplished molecular biologist and scientific advisor with over a decade of experience in research and consultancy across academia, industry, and publishing. Senior scientist at Helixon Therapeutics leading molecular biology and genomics projects, combined with independent freelance work as a consultant and scientific writer. Expertise includes gene regulation, RNA biology, assay development, and translational research for early-stage biotech ventures.

Areas of Expertise

- Molecular Biology & Genetics
- Epigenetics & Gene Regulation
- CRISPR-Cas9 and Genome Editing
- Single-cell Transcriptomics
- RNA Biology and Non-Coding RNAs
- Translational Research & Drug Target Validation
- Scientific Leadership & Academic Mentoring
- Research Grant Writing and Project Management

Career History

2009 – 2015

Senior Scientist – Genomics & Molecular Biology Division, Helixon Therapeutics Ltd., London, UK

- Directed preclinical drug target validation projects in oncology and rare genetic diseases.
- Led international collaborations between academia and pharma partners.
- Co-inventor on patents related to RNA-based therapeutic strategies.
- Provided consultancy for biotech startups on gene editing techniques.
- Freelance scientific writer and editor for *Molecular Frontiers* magazine.

2012 – 2015

Independent Consultant – London, UK & Remote

- Consulted for early-stage biotech firms on molecular assay design and RNA therapeutic development.
- Provided strategic advice to two venture capital groups on life sciences investments.
- Contributed scientific reviews and whitepapers for pharmaceutical clients.

Educational History

PhD in Molecular Biology
University of Cambridge, UK
Graduated: 2009

Dissertation: 'Epigenetic Modulators of Gene Expression in Early Development'

MSc in Molecular Biology
Charles University, Prague, Czech Republic
Graduated: 2004

BSc in Biology
Charles University, Prague, Czech Republic
Graduated: 2002

Professional Memberships and Languages

Member, European Molecular Biology Organization (EMBO)
Member, American Society for Cell Biology (ASCB)

Languages
Czech (native), English (fluent), Swedish (conversational), German (basic)