

CURRICULUM VITAE RICHARD HARVEY

NATIONALITY: British

EDUCATION:

1998 - 2002 *King's College London, University of London*
PhD in Pharmaceutical Biophysics.

1995 - 1997 *Birkbeck College, University of London*
M.Sc. Comparative Physiology.

1989 - 1990 *Cardiff University, University of Wales*
Postgraduate Certificate in Education.

1985 - 1988 *Cardiff University, University of Wales*
BSc (HONS) Microbiology.

RESEARCH & TEACHING POSITIONS:

2020 - Present *Department of Pharmaceutical Science, Universität Wien (AT)*
Senior Scientist in Pharmaceutical Chemistry. Responsible for biophysics hub. Lecturer in pharmaceuticals/biopharmacy.

2016 - 2020 *Institute of Pharmacy, Martin-Luther-Universität Halle-Wittenberg (DE)*
Senior Scientist in Biopharmacy. Independent research in the area of pharmaceutical biophysics. Lecturer in pharmaceuticals/biopharmacy.

2005 - 2016 *Institute of Pharmaceutical Science, King's College London (UK)*
Principal investigator within the pharmaceutical biophysics group. Lecturer in molecular pharmaceuticals. Course leader for M. Pharm 1 & 3, Module leader for Biochemical basis of therapeutics & Infection and pharmaceutical microbiology.

2006 - 2006 *School of Biological & Chemical Sciences, Birkbeck, University of London (UK)*
Lecturer and course organiser for B.Sc. Biomedical Science module on nutritional biochemistry (evening classes).

2004 - 2005 *Institute of Pharmaceutical Science, King's College London (UK)*
Teaching fellow in pharmaceutical chemistry.

2004 - 2004 *Institute of Pharmaceutical Science, King's College London (UK)*
Molecular biophysics research group, post-doctoral research associate.

2002 - 2003 *Université Paris-Saclay, Faculté de Pharmacie, Châtenay-Malabry (FR)*
Post-doctoral research post funded by l'Association pour la Recherche sur le Cancer.

RESEARCH INTERESTS

- Drug-bacterial membrane interactions, with the aim of understanding intrinsic antibiotic resistance mechanisms.
- Drug-pulmonary interface interactions, with the aid of understanding the role of excipients in steroid uptake.
- Biophysical techniques for investigating biomolecule interactions with nanomaterial surfaces and food colloids.

EXPERIMENTAL EXPERTISE

- Neutron scattering (SANS, reflectivity, diffraction)
- X-ray scattering (GIXD, GIXOS, reflectivity)
- Langmuir monolayer analysis (infrared reflection-absorption spectroscopy, epifluorescence, Brewster angle microscopy)
- Culture, handling and diagnostic testing of S2 category microorganisms.
- Extraction and reconstitution of bacterial lipid membranes for biophysical analysis.
- Liposome/lipid nanoparticle formulation and characterisation.

RESEARCH GRANTS AND FUNDING

AWARDING BODY	FUNDED PERIOD
Deutsches Elektronen-Synchrotron (DE). X-ray diffraction beamtime awards.	2018 – 2021
SOLEIL Synchrotron (FR). X-ray diffraction beamtime award.	2018
Science and Technology Facilities Council (UK). Neutron scattering beamtime awards.	2008 – 2015
Institut Laue-Langevin (FR). Neutron scattering beamtime awards.	2008 – 2019
London South Bank University (UK). Biophysics of amyloid and antimicrobial peptides.	2014 – 2017
Medical Research Council (UK). Biocide resistance in MRSA.	2012 – 2016
Engineering and Physical Sciences Research Council (UK). Next Generation Facility User Grant.	2010 – 2014
Biotechnology and Biological Sciences Research Council (UK). Acid tolerance and drug resistance in bacteria.	2009 – 2013
University of London Central Research Fund (UK). Acidic and basic antimicrobial peptides.	2008
Heptagon Proof of Concept Fund (UK). Novel system for producing membrane proteins in bacteria.	2005