Phil Kerry

After completing my DPhil in virology from the University of Oxford, I moved into structural biology as a Postdoctoral Research Fellow at the University of St Andrews and then onto my current position at the drug discovery CRO Evotec. Throughout this time I've worked on understanding the molecular mechanisms within complex protein systems and how we can apply the learnings from structural biology to drug discovery. For this I have worked with X-ray crystallography and cryo-electron microscopy to produce high-resolution structures of clinically relevant proteins in complex with potential therapeutic medicines to drive their optimization. I work in an integrated environment, alongside chemists, biophysicists, biochemists to discover and design the medicines of the future.

Dana Cortade

Dana Cortade is a Technical Project Manager at Align to Innovate, a scientific non-profit, where she leads the Sequence-to-Function working group. She received her Bachelors in Optical Sciences and Engineering from the University of Arizona (Tucson, AZ, USA) and her Masters and PhD in Materials Science and Engineering from Stanford University (Stanford, CA, USA). Her doctoral work focused on creating automated point-of-care assays for genotyping and small molecule detection. Currently, she is passionate about facilitating large-scale scientific initiatives and enabling collaboration.

Christian Bippes

I pursued my studies in biochemistry at the Universität Bayreuth before joining Daniel Müller's lab at the Technische Universität Dresden in 2004. It was during my time in Dresden that I first encountered atomic force microscopy, which became the focus of my PhD projects. This experience sparked a lifelong passion for the field.

After earning my PhD from TU Dresden, I relocated with the Müller lab to ETH Zürich in Basel in 2010. In 2013, I began my career as an application scientist at Nanosurf in Liestal, where I currently lead the product management department.

Throughout my research as a PhD student and Postdoc, I specialized in high-resolution imaging of membrane proteins and single-molecule force spectroscopy of proteins and other biomacromolecules. My enthusiasm for these topics remains strong. Since joining Nanosurf, I have had the opportunity to collaborate with researchers and scientists across various disciplines, from fundamental physics to industrial quality control, which has fueled my interest in new applications and provided many exciting insights.

Chen Yuning

Dr. Chen graduated in 2012 from Ohio University, with a Ph.D. in Biochemistry. He then conducted postdoctoral research at Penn State University, focusing on protein biochemistry and biophysics. Dr. Chen is currently the Senior R&D Manager at Sino Biological, Inc, where he is primarily responsible for the design, development, and optimization of platform processes for recombinant protein products. He has extensive experience in the expression, purification, and characterization of recombinant proteins and antibodies, and has participated in the development and preparation of hundreds of recombinant proteins and antibodies.

Andrew Mearns Spragg

Dr Andrew Mearns Spragg is a marine biotechnology pioneer and entrepreneur with >20 years' experience in the creation of companies involved with the commercial exploitation of marine biotechnology innovation.

Andrew holds a first-class BSc degree in Microbiology and PhD in Marine Biotechnology from Heriot-Watt University, Edinburgh. He was awarded a Royal Society of Edinburgh Enterprise Fellowship at St. Andrews University in 2000 to support the creation of his first marine biotechnology enterprise, Aquapharm Biodiscovery Ltd to bio-prospect and develop novel biologically active natural products from marine micro-organisms.

Andrew has successfully raised to date over >£25M in equity finance from VCs and Angels and has secured competitive grant funding from EU and UK sources worth >£3M. He was the recipient of the 2007 Gannochy Award and Medal from the Royal Society of Edinburgh, Scotland's highest award for Innovation and his entrepreneurial achievements were further recognised through winning the Ernst & Young Entrepreneur of the year 2008 in Health Care for Scotland.

Andrew founded Jellagen Ltd in 2015, where he has helped raised more than £16M in private financing, established in-house collagen standards and first data sets. He also built the first ISO13485:2016 certified manufacturing plant to produce a highly purified jellyfish collagen next generation biomaterial supporting tissue engineering and medical device innovation. Andrew is dedicated and focused to developing the scientific potential of the company and is a member of the Executive Committee, responsible for Scientific and Technology strategy, Product Development and Business Development activities.

Andrew was a member of Scotland's Life Science Advisory Board (2009-2011) and elected to the Royal Society of Edinburgh's Young Academy from 2011 – 2015. He was made Honorary Professorships from the University of Stirling (2012-2016) and University of the Highlands and Islands (2012 – Present). He is a Fellow of the Royal Society of Chemistry, Encouragement of Arts, Manufactures and Commerce, and Biology.

Cristian Arsene

Cristian Arsene is a member of the biochemistry department at Physikalisch-Technische Bundesanstalt in Braunschweig, Germany. His interest is the development and application of new measurement procedures for the analysis of proteins, based on principles and techniques of proteomics and modern organic mass spectrometry.

John P. Marino

John P. Marino is a NIST Senior Research Scientist and an Associate Director of the Institute for Bioscience and Biotechnology Research (IBBR), a joint research institute of the University of Maryland and NIST. He holds an Adjunct Professorship in the Department of Chemistry and Biochemistry and is a member of the Molecular and Cell Biology Program at the University of Maryland. Prior to coming to NIST and the University of Maryland in 1997, Dr. Marino completed an A.B in Chemistry from Princeton University and a Ph.D. in Chemistry from Yale University. He then held an Alexander von Humboldt post-doctoral fellowship at the Goethe Universität in Frankfurt, Germany. Dr. Marino's research focuses on the application of Nuclear Magnetic Resonance (NMR) and other biophysical methods to advance precision measurement and standards for proteins and nucleic acids, with a particular focus on applications to biotherapeutics.

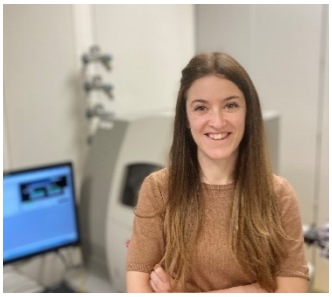
Luise Luckau

Dr. Luise Luckau is the Science Leader for Protein Metrology at the National Measurement Laboratory (NML) at LGC in the UK. She leads projects in protein metrology, focusing on developing reference measurement procedures for protein quantification and structural characterisation using advanced mass spectrometry techniques. Her work is crucial in supporting the accuracy and standardisation of protein measurements in both scientific and medical applications. She is involved in several European projects, including ProMET, Comet, and NeuroBiostand, which aim to advance protein measurement standards. She also chairs the International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) Working Group on the Standardisation of Natriuretic Peptides.

Renee Ruhaak

Dr. L. Renee Ruhaak is currently an associate professor at the department of Clinical Chemistry and Laboratory Medicine within the Leiden University Medical Center (LUMC). She has a background in analytical chemistry, specifically focusing on proteins and post-translational modifications. Her research focuses on the application of mass spectrometry within the clinical chemistry setting. This entails both development and implementation of quantitative protein mass spectrometry tests, as well as the role of mass spectrometry in metrology and test standardization. Ultimately, her goal is to contribute to a more sustainable healthcare system through enabling of P5 medicine by clinical proteoform testing.

Elena Dominguez Vega



Dr. Elena Dominguez Vega is assistant professor and principal investigator at the Leiden University Medical Center (Leiden). Her research focus on the development of new mass spectrometric methods for the structural and functional characterization of glycoproteins of clinical and pharmaceutical interest. Recent interest focus on multidimensional approaches for method automation and new selective methods for proteoform-specific affinity assessment. Over the years, Dr. Elena Dominguez Vega has closely collaborated with several pharmaceutical companies and has received multiple grants and awards in support to her research.

Victoria Savage

Victoria Savage is Chief Scientific Officer of INFEX Therapeutics Ltd, an infection-focussed biotechnology company based in Cheshire in the United Kingdom. She earned both her BSc in Microbiology and Immunology, and PhD in Microbiology, from the University of Leeds in the UK.

Victoria is a microbiologist with a keen interest in antimicrobial drug discovery and development and has contributed to the development of numerous antimicrobial programs, from early-stage development of hit molecules through to clinical-stage projects. She has experience in the development of diverse modalities including small molecules, biologics, and non-traditional agents.

Victoria also holds several advisory roles in the biological sciences and AMR space. She is a member of the UK's Biotechnology and Biological Sciences Research Council (BBSRC) Pool of Experts, she sits on the Industrial Advisory Board for Newcastle University's Faculty of Medical Sciences (UK) and is also a member of the UK's Cystic Fibrosis AMR Syndicate Steering Committee.

Liqing Wu

Liqing Wu obtained his Ph.D. in Analytical Chemistry from Peking University in 2005. He is currently a research fellow and the Group Leader of Protein Measurement Laboratory at the Center for Advanced Measurement Science in National Institute of Metrology, P.R. China. In addition, he serves as the Vice Chair of the Protein Analysis Working Group of CCQM. His primary research interests include protein quantification, activity measurement, and the development of reference materials. His current work focuses on developing accurate measurement methods for protein interactions, standardizing clinical enzymes and tool enzymes used in molecular biology, and creating absolute quantification methods for active proteins.

Alexandre Chenal

Alexandre Chenal is a researcher with expertise in protein membrane interactions, protein folding, and the mechanisms by which bacterial toxins intoxicate eukaryotic cells. Based on a combination of biophysical approaches, the results of his research group illustrate that the structural flexibility of CyaA is crucial for its secretion, folding, translocation across the plasma membrane, and subsequent cell intoxication. These processes involve disorder-to-order conformational transitions that are finely tuned to the environmental conditions CyaA encounters on its journey from the bacterium to the cytoplasm of the eukaryotic cell. These results open new perspectives for both basic research and biotechnological applications, positioning recombinant CyaA proteins as a promising antigen delivery vehicle and as a potential protective antigen for the next generation of pertussis vaccines.

Adriana F. Paes Leme

Adriana F. Paes Leme received her Ph.D. from the State University of Campinas, Brazil. She conducted postdoctoral research at the Butantan Institute in São Paulo, Brazil, and the University of Virginia School of Medicine, USA. Since 2009, she has been a Principal Investigator and Head of the Mass Spectrometry Facility at the Brazilian Biosciences National Laboratory (LNBio), part of the Brazilian Center for Research in Energy and Materials (CNPEM). Her research focuses on advancing mass spectrometry-based proteomics to explore diverse microenvironments, primarily head and neck cancer, with a particular emphasis on biofluid proteomics, spatial proteomics, and, more recently, single-cell proteomics.

James Noble

Dr James Noble is a Senior Scientist for the Biometrology group at NPL. His current research focuses on developing synthetic virus-like structures as functional reference materials and their application in biomedicine and synthetic biology. Synthetic viruses are designed de novo from peptides and protein building blocks to self-assemble into hollow capsules that are designed for transfection (gene delivery) or anti-microbial purposes. These simplified structures display similar bioactivity compared to traditional drug delivery and transfection agents, but their chemical simplicity and ability to modify/tag make them useful reference materials for characterisation and measurement in complex biological systems.

James received a BSc in Medical Biochemistry and an MSc in Toxicology from the University of Birmingham, UK. He obtained his PhD in Chemical Biology from Imperial College London

James has published this research in various high-impact papers, including JACS, Nature Comm and ACS Nano, and won a Glazebrook Fellowship for a secondment to NIST. In addition, James has previously worked on diagnostic assay development projects and was a consultant on the cTnI standardisation efforts with the IFCC.

Andrea Valsesia

Dr. Andrea Valsesia has a PhD in Physics on Nanofabrication of surfaces for biological application. He has 20 years of experience in the field of nano-micro fabrication, thin films deposition, surface analysis and integration of devices, development of high-tech laboratory equipment, characterization of engineered nanomaterials. His research has been always oriented toward development of methods and experimental tools to support EU regulation in particular in the nanotechnology domain. He was the founder of the spin-off company generated from the Technology Transfer project (Plasmore SRL). He is official at the JRC since December 2013. In the last years he managed 3 Proof-of-Principle Projects and two Exploratory projects (SENTINEL, detection of airborne virus by optical scattering an AI and Cyber-DUST, detection of airborne chemical threats). In 2019-2020 he was visiting researcher at the National Institute of Standards and Technology in US.

Amandine Boeuf

Dr. Amandine Boeuf is a research scientist at Laboratoire National de Métrologie et d'Essais (LNE), the French National Metrology Institute. She is a project leader involved in bioanalysis and manages projects aiming at the production of certified reference materials and the development of reference methods for the absolute quantification of peptides, proteins and hormones by mass spectrometry. She coordinates the European project ProMET on fundamental protein metrology to support the definition of measurands, analytical targets, and their associated measurement uncertainty. She is also involved in several European and international networks on metrology and clinical chemistry and chairs the International Federation of Clinical Chemistry and Laboratory Medicine (IFCC) working group on the standardisation of procalcitonin assay methods.