










The Young Darwinian™


Editorial and Advisory Board Mini biographies

Board member		Biography
Anthony Campbell		Tony is a world expert in bioluminescence, how calcium regulates processes inside cells, lactose and food intolerance, and Darwin. He has published 10 books, and over 250 internationally peer-reviewed papers. One of his inventions, using chemiluminescence, is now used in several hundred million clinical tests per year world wide. He believes passionately about communicating science to the public, and in exciting pupils and students about natural history and cutting edge science. This led him to found the Darwin Centre (www.darwincentre.com) in 1993. He won the Inspire Wales award for Science and Technology in 2011. He, and his wife Stephanie Matthews, founded The Young Darwinian in 2016. campbellak@cf.ac.uk ; http://www.cardiff.ac.uk/people/view/90830-campbell-anthony
Stephanie Matthews		Stephanie is a medical biochemist with a specialist expertise in cholesterol and heart disease, and food intolerance, pioneering LDL apheresis for people with severe cholesterol problems. She was born in Newport in south Wales, but grew up in Scunthorpe, England. She moved back to Wales in 1973 to study medicine at the then Welsh National School of Medicine. After qualifying as a doctor, she obtained a PhD, and then became a consultant in medical biochemistry. Like Anthony she believes passionately in exciting young people about science, and in finding novel ways to explain difficult concepts to patients. In 1993, she helped Anthony form the Darwin Centre (www.darwincentre.com), and in 1996 The Welston Court Science Centre in Pembrokeshire, where the Darwin Centre was moved to in 1999. She is an expert in

		mentoring projects for school students. She is a Fellow of the Royal College of Pathologists, and was short listed for Hospital Doctor of the year in 2003.
Rosie Atkins		<p>Current activities: Chair RHS Woody Plant Committee (2016-) Linnean Society Council (elected 2014-) Trustee: Great Dixter Charitable Trust (2008-) and Professional Gardeners Trust (2015-). Executive Committee, Metropolitan Public Gardens Asso. (2012-) Heritage England Garden Panel (2011-) BBC Gardens Advisory Group (2013-) RHS: Accredited Show judge (2004-); RHS Garden Advisory panel(2011-) RHS Bursaries and Awards Committee(2015-) Young Darwinian's advisory panel(2016-)</p> <p>Career: Sunday Times 1968-82, launch Editor Gardens Illustrated Magazine (1992-2002)(BSMA Editor of the Year 1996) Curator Chelsea Physic Garden (2002-2010)</p> <p>Previous Voluntary roles: Member RHS Woody Plants Committee (2002- Deputy Chair from 2010- 2016) Chair and co-founder London Gardens Network (2009-12), Trustee: Thrive (1998-2003), Gardening for Disabled Trust (1998-2011); Member: RHS Nominations and Awards Committee (2006-2012), RHS Library Media Arts Committee(2012-2015); RHS Editorial Panel (2010-2015); Elected RHS Council member (2010-2015) Chair RHS Awards Committee (2011-2015). Memberships Founder Member Garden Writers Guild, (1991-)_RHS (1960-) RHS Woody Plant Committee (2002-) London Library (2010-) Chelsea Arts Club (1968-) Fellow of The Linnean Society (2003-)</p>
Erik Gylfe		<p>I started studying medicine at Umeå University in 1968 with the intension to become a preclinical scientist rather than a practicing MD. I was soon recruited to the Histology Department, which was the most prominent research department of the University. After finishing my preclinical degree, I became a PhD student in 1970 studying amino acids in the insulin releasing pancreatic islets of Langerhans. I defended my thesis in 1974 and two years later I joined my former supervisor to set up a diabetes research laboratory at Uppsala University where he had become professor. In Uppsala, the research soon switched from fuel metabolism to the role of the Ca²⁺ ion as a trigger for insulin secretion. The early investigations were based on studies of the uptake and release of radioactive ⁴⁵Ca in pancreatic islets, and were quite difficult to interpret, leading to considerable scientific controversy. I therefore spent a postdoctoral period in Philadelphia 1979 learning to measure calcium directly with indicators and dual wavelength photometry. However, that approach proved difficult to apply to the small</p>

		<p>insulin-releasing cells, but with the development of fluorescent Ca^{2+} indicators in the early 1980:s things changed dramatically. After reconstruction of our sophisticated photometric equipment we suddenly had the best tool available to measure Ca^{2+} concentrations of living cells in real time with dual wavelength fluorometry. My career took off and I got a research position at the Medical Research Council and in 1994 a chair professorship in Secretion Research at the department of Medical Cell Biology in Uppsala. The last 5 years before retirement in 2014 I was also Chairman of the department. With molecular biology-based indicators and advanced microscopy techniques, we can now measure Ca^{2+} together with a number of other signaling molecules and obtain information that were hard to even imagine should become possible. My major scientific contributions have been in the signaling that controls secretion of hormones - blood glucose-lowering insulin, blood glucose-elevating glucagon and blood Ca^{2+}-elevating parathyroid hormone. As Emeritus Professor, I continue the research on insulin and glucagon secretion.</p>
Christina Kio		<p>I decided to be an engineer at the age of 9 by a process of elimination. I liked science but didn't like blood, so I couldn't be a doctor. I didn't like English language/literature so couldn't be a lawyer. Therefore. I would become an engineer. Fast forward several years, and my love of science and taking things apart kept me on my career goal of becoming an Engineer. I decided to study Maths, Physics and Chemistry at A-levels. When the time for making my university application came round at age 17, I began to doubt my 9 year old decision, so my maths teacher encouraged me to attend a 2 day girls-in-engineering taster session at Queens Mary University. These 2 days affirmed my decision as I found other girls that thought in a logical way as me. I went onto study Civil engineering at University as I like structures. I now work as a civil engineer and have worked on Water projects, Highways projects and on a construction of a new Underground train station.</p>
Paul Luzio		<p>Paul Luzio was Professor of Molecular Membrane Biology (2001-14), Director of the Cambridge Institute for Medical Research (CIMR, 2002-12), Master of St Edmund's College (2004-14) and Deputy Head of the School of Clinical Medicine (2012-14) in the University of Cambridge. Paul grew up in southwest London and his secondary schooling was at Shene Grammar School on the site that now houses the Richmond Park Academy. He was subsequently a student at Clare College, Cambridge where he graduated with a BA in Natural Sciences and a PhD in</p>

		<p>Biochemistry. After spending some time in Cardiff in the 1970's at what was then the Welsh National School of Medicine, Paul returned to Cambridge where he has spent the rest of his career apart from short periods, including a sabbatical year, at the European Molecular Biology Laboratory in Heidelberg, Germany. Since reaching Cambridge University's retirement age in 2014, Paul has been an emeritus professor located in the CIMR where he still leads a small, Medical Research Council-funded research group focused on aspects of cell biology, including abnormalities that cause human disease. Paul is especially interested in understanding membrane traffic pathways in mammalian cells, including the sorting and delivery of endocytosed macromolecules to lysosomes and lysosome biogenesis. Paul is a Fellow of the Academy of Medical Sciences, the Royal College of Pathologists, the Royal Society of Biology, the Higher Education Academy and an Honorary Fellow of Green Templeton College, Oxford and St Edmund's College, Cambridge.</p>
Peter Penson		<p>Peter Penson is a cardiovascular pharmacologist and a pharmacist. Since 2009 he has been Senior Lecturer in Pharmacology and Pharmacy Practice at Liverpool John Moores University. Peter graduated in Pharmacy from Cardiff (UK) in 2004 and with a PhD in cardiovascular pharmacology from the same university in 2009. He is a member of the Lipid and Blood Pressure Meta-analysis group. His research interests include hypertension, dyslipidaemias and ischaemia-reperfusion injury. He is particularly interested in drugs acting upon adrenoceptors and calcium channels. He employs a range of research methods in the laboratory. Peter is the Editor-in-Chief of Autonomic & Autacoid Pharmacology. He enjoys visiting schools to talk about science in his capacity as a S.T.E.M. ambassador."</p>
Emmanuel Reynaud		<p>Emmanuel is a keen biologist and an imaging expert. His interest ranges from imaging entire coral reefs using simple kites and mobile phones to advanced 3D microscopy techniques such as Light Sheet Microscopy. He designed and coordinated a unique imaging suite on the Schooner Tara for a circumnavigation of the Earth (2009-2012)...sounds familiar? He has been honoured by the French Government for his works and is Knight of the Palmes Academiques. He is currently working on improving ecological imaging of endangered</p>

		ecosystems, introducing disruptive technologies in biological science from 3D bioprinting to virtual reality approaches and studying the amazing invertebrates made in glass by Leopold and Rudolf Blashcka between 1863 and 1890.
Jen Wymant		Jenny Wymant was awarded a first-class degree in Biomedical Science from Portsmouth University. She completed her PhD in Cancer Studies at Cardiff University where she continues to work as a post-doctoral researcher in cellular and molecular cancer biology. Jenny's research interests include: breast cancer; cancer cell signalling (how cells control their behaviour and how that changes in cancer); endocytosis (how cells take in molecules from the outside and where those molecules then go) and confocal microscopy (using a powerful microscope to examine tiny structures and events happening inside cells). In addition to her research Jenny is a passionate advocate for science and an avid science communicator. She has been involved in creating and delivering a number of different outreach activities to help share science with the public.