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### **[Biochemistry](#)**

[Designing proteins with life sustaining activities 1](#)

Prof. Michael Hecht – Princeton University, USA

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[Mitochondrial production of reactive oxygen species 1](#)

Prof. Martin Brand – Buck Institute, USA

[The ERK1/2 MAPK cascade](#)

Prof. Melanie H. Cobb – University of Texas Southwestern Medical Center at Dallas, USA

[Enzymology in drug discovery 1](#)

Prof. Robert Copeland – Epizyme, USA

### **[Genetics & Epigenetics](#)**

[Heterochromatin, epigenetics and gene expression](#)

Prof. Joel C. Eissenberg – Saint Louis University, USA

[Genetic epidemiology of low back pain and intervertebral disc degeneration](#)

Dr. Frances Williams – King's College London, UK

[Telomeres and cardiovascular disease](#)

Dr. Jess Buxton – Kingston University London, UK

### [The molecular mechanism of X chromosome inactivation](#)

Prof. Neil Brockdorff – University of Oxford, UK

### [Guidance for responsible testing and implementation of gene-drive systems](#)

Prof. Stephanie James – Foundation for the National Institutes of Health, USA

## **[Microbiology](#)**

### [Gram+ bacterial microbiota - Yin & Yang of infectious disease](#)

Prof. P. Patrick Cleary – University of Minnesota, USA

### [Dengue, Zika and Chikungunya viruses](#)

Prof. Ana Fernandez-Sesma – Icahn School of Medicine at Mount Sinai, USA

### [Evolution, the microbiome, and human health](#)

Dr. Joe Alcock – University of New Mexico Health Sciences Center, USA

### [How bacterial pathogens avoid phagocyte killing](#)

Dr. Thomas Areschoug – Lund University, Sweden

### [National and international surveillance of antibiotic resistance 1](#)

Prof. David Livermore – Public Health England's Antibiotic Resistance Monitoring and Reference Laboratory, UK

## **[Cell Biology](#)**

### [Lysosome: much more than a degradative organelle](#)

Dr. Diego Medina – Telethon Institute of Genetics and Medicine, Italy

### [Mitochondrial morphology and ultrastructure in skeletal muscle](#)

Prof. Martin Picard – Columbia University, USA

### [Initiation and elongation of mammalian mitochondrial protein synthesis](#)

Dr. Linda L. Spremulli – University of North Carolina, USA

### [DNA damage, mutations and aging 1](#)

Prof. Jan Vijg – Albert Einstein College of Medicine, USA

### [The Myc transcription factor network](#)

Prof. Robert N. Eisenman – Fred Hutchinson Cancer Research Center, USA

## **[Immunology](#)**

### [Priming of T cell responses 1](#)

Prof. Victor Appay – INSERM, France

Dr. Francesco Nicoli – Universities of Ferrara and Padua, Italy

### [Vitamin D and autoimmunity](#)

Dr. Shir Azrielant – Sheba Medical Center, Israel

### [The classical pathway of complement](#)

Prof. Mohamed R. Daha – Leiden University Medical Center, Netherlands

### [Regulation of the immune response to pathogens 1](#)

Prof. Anne O'Garra – National Institute for Medical Research, London, UK

### [Impact of the HPV vaccine programme – a changing landscape](#)

Dr. Kevin Pollock – Health Protection Scotland, UK

## **[Neuroscience](#)**

[Stroke in women: epidemiology, risk and prevention](#)

Prof. Cheryl Bushnell – Wake Forest Baptist Health, USA

[Deep Brain Stimulation \(DBS\) neuromodulation for Schizophrenia](#)

Prof. Judith Gault – University of Colorado, Denver, USA

[PANDAS: a potential link between group A streptococcal infections and neurological disorders](#)

Prof. P. Patrick Cleary – University of Minnesota, USA

[Autophagy and neurodegeneration](#)

Prof. David Rubinsztein – Cambridge Institute for Medical Research, UK

[The clinical features of amyotrophic lateral sclerosis: diagnosis, natural history and epidemiology](#)

Prof. Kevin Talbot – University of Oxford, UK

**[Omics & Systems Biology](#)**

[Metabolomics resources](#)

Prof. David Wishart – University of Alberta, Canada

[A systems approach to implementation of personalized cancer therapy](#)

Prof. Gordon B. Mills – MD Anderson Cancer Center, USA

[Garuda platform: re-imagining connectivity in medicine](#)

Dr. Samik Ghosh – The Systems Biology Institute, Japan

[Comparing transcriptomes of distant organisms: the comparative ENCODE resource 1](#)

Prof. Mark Gerstein – Yale University, USA

[Impact of systems biology on metabolic engineering](#)

Prof. Jens Nielsen – Chalmers University of Technology, Sweden

**[Cancer](#)**

[A novel cancer therapy to stimulate oncogenic ERK signalling](#)

Prof. Reiko Sugiura – Kindai University, Japan

[Immune checkpoint blockade in melanoma](#)

Dr. Elizabeth Buchbinder – Harvard Medical School, USA

[Chromosome translocations and cancer](#)

Prof. Felix Mitelman – Lund University, Sweden

[Functional cancer genomics](#)

Prof. Roderick Beijersbergen – Netherlands Cancer Institute, Netherlands

[The role of exosomes in multiple myeloma development & drug resistance](#)

Prof. Eline Menu – Vrije Universiteit Brussel, Belgium

**[Pharmaceutical Sciences](#)**

[Current challenges in the design of antibody-drug conjugates](#)

Prof. L. Nathan Tumey – Binghamton University, USA

[Inorganic nanostructured interfaces for therapeutic delivery](#)

Prof. Tejal Desai – University of California, San Francisco, USA

[The theory and applications of controlled release principles](#)

Dr. Michael J. Rathbone – ULTI Pharmaceuticals, New Zealand

[Drug metabolizing enzymes in cancer therapeutics](#)

Prof. Bhagwat Prasad – University of Washington, USA

[Phase II clinical trials - Bayesian methods](#)

Prof. Fei Ye – Vanderbilt University Medical Center, USA

**[Clinical Medicine](#)**

[Recent advancements in the diagnosis and treatment of congestive heart failure in dogs and cats](#)

Prof. Jessica Ward – Iowa State University, USA

[Coagulation in sepsis](#)

Prof. Marcel Levi – University of Amsterdam, Netherlands

[Systemic lupus erythematosus: diagnosis and management](#)

Dr. Sara K. Tedeschi – Harvard Medical School, USA

[Post-resuscitation syndrome after cardiac arrest - protecting the brain](#)

Prof. David Seder – Tufts University School of Medicine, USA

[Kidney disease and pregnancy: a new era?](#)

Dr. Kate Bramham – King's College London, UK

**[Diseases, Disorders, & Treatments](#)**

[Inflammatory bowel disease](#)

Prof. Ole Haagen Nielsen – University of Copenhagen, Denmark

[Environmental scleroderma: the evidence for putative triggers](#)

Prof. Maureen Mayes – University of Texas Medical School at Houston, USA

[Pharmacotherapy for obesity 1 - the need for pharmacotherapy in weight management](#)

Prof. Joe Proietto – University of Melbourne, Australia

[Renal complications of sickle cell disease](#)

Dr. Claire Sharpe – King's College London, UK

[Adapting proteostasis to ameliorate aggregation-associated amyloid diseases](#)

Dr. Jeffery W. Kelly – The Scripps Research Institute, USA

**[Metabolism & Nutrition](#)**

[Peptide YY \(PYY\) in obesity and diabetes](#)

Dr. Nigel Irwin – Ulster University, UK

[Dysregulated eating behaviour, eating disorders and obesity](#)

Prof. Ulrike Schmidt – King's College London, UK

[Metabolic communication in development and control of obesity 1](#)

Prof. Elaine Holmes – Imperial College London, UK

[Exercise and nutrition in mitochondrial disorders](#)

Prof. Mark Tarnopolsky – McMaster University Medical Center, Canada

[Paneth cells, antimicrobial peptides and the regulation of the intestinal microbiota](#)

Dr. Nita Salzman – Medical College of Wisconsin, USA

## **Reproduction & Development**

### Setting the second stage: the evolution of menopause & post-reproductive life

Prof. Lynnette Sievert – University of Massachusetts Amherst, USA

### Evolutionary obstetrics

Prof. Wenda Trevathan – New Mexico State University, USA

### Left-right asymmetry in embryonic development: how epigenetic, biophysical forces and gene activity interact along the embryonic axis

Prof. Michael Levin – Biology Department, TCRDB, Tufts University, USA

### Mitochondria in reproduction and fertility: mitochondria and gametes 1

Prof. Pascale May Panloup – University Hospital of Angers, France

### Application of proteomics in fetal and neonatal medicine

Dr. Joost P. Schanstra – INSERM, Toulouse, France

## **Agriculture & Environmental Sciences**

### Agricultural genetics for food security

Prof. Robert Henry – University of Queensland, Australia

### Why is the world green? Top-down and bottom-up controls on ecosystems

Prof. Jonathan Shurin – University of California-San Diego, USA

### Animal behavioural genetics

Prof. Temple Grandin – Colorado State University, USA

### Ecological considerations for gene drive systems

Prof. Gregory C. Lanzaro – University of California, Davis, USA

### Epigenetics in agriculture

Prof. Graham King – Southern Cross University, Australia

## **Methods**

### Hematopoietic stem cells...the power of clonal assays

Dr. David Kent – University of Cambridge, UK

### Statistical techniques in human population genetics

Dr. Garrett Hellenthal – University College London, UK

### An introduction to randomization for clinical trials 1

Prof. William Rosenberger – George Mason University, USA

### An introduction to statistics for statistical genetics: models and techniques common in statistical genetics

Dr. Paul O'Reilly – King's College London, UK

### Legal and ethical issues in uses of stored tissue in human subjects research

Ms. Gail Javitt – Johns Hopkins University, USA