**Director of the Research Center**
Professor Sir Marc Feldmann
MBBS BSc FRCPath, FRCP FMedSci FAA FRS

**Institution**
Kennedy Institute of Rheumatology Division
Imperial College London
The Charing Cross Hospital Campus
Arthritis Research Campaign Building
65 Aspenlea Road
London W6 8LH, UK
Phone +44 (0)20-8383-4400
Fax: +44 (0)20-8563-0399
Email: m.feldmann@imperial.ac.uk

**Members of the Center**

**Senior Staff**
Jeremy Saklatvala, PhD, Professor
Hideaki Nagase, PhD, Professor
Sir Ravinder Maini, Emeritus Professor
Fionula Brennan, PhD, Professor
Patrick Venables, MD, Professor
Peter C. Taylor, PhD, Professor
Jagdeep Nanchahal, FRCS, PhD, Professor
Francesco Dazzi, MD, Professor
Andrew Clark, PhD, Senior Lecturer
Ewa Paleolog, PhD, Senior Lecturer
Claudia Monaco, PhD, Clinical Lecturer
Yoshifumi Itoh, PhD, Senior Lecturer
George Bou Gharios, Reader
Robin Wait, PhD, Senior Lecturer
Tonia Vincent, PhD, Consultant
Rheumatologist/Clinical Scientist
Richard Williams, PhD, Senior Scientific Officer
Nicole Horwood, PhD, Lecturer
Kim Midwood, PhD, Lecturer
Christopher Murphy, PhD, Lecturer
Irina Udalova, PhD, Lecturer
Jonathan Dean, PhD, Lecturer
Abhi Jain, PhD, Snr Clinical Lecturer
Fiona Watt, PhD, Consultant Rheumatologist/Clinical Scientist

**Post-Docs (excluding Senior Staff)** 45
**PhD students** 35
**Support personnel (Technicians)** 27

**Contact Information**
Phone: +44 (0)20-8383-4400
Fax: +44 (0)20-8563-0399
Email: m.feldmann@imperial.ac.uk
Current Fields of Research

The Kennedy Institute of Rheumatology is one of the world’s largest centres of research in arthritis, so the ensuring description is of necessity, brief and incomplete, not all groups can be discussed. The KIR is a ‘translational’ research institute, with a full complement of research activities from uncovering new signalling and regulatory pathways to clinical trials.

In terms of pathogenesis of rheumatoid arthritis (RA), the regulation of TNF production is key and a number of strands have emerged. Thus the role phosphatases in the mechanism of gene regulation by corticosteroids is being analysed, the binding proteins to the AU rich regions of 3’ untranslated regions of inflammatory proteins, the role of IRF in cytokine production, role of toll like receptors, the role of atypical T cells in synovial TNF production, role of NK cells, role of antigen presenting cells and their accessory molecules e.g., CD200, OX40 and so on.

From these studies potential therapeutic targets are uncovered which are tested in animal models of arthritis, chiefly collagen-induced arthritis, both in DBA/1 mice and C57BL/6. Clinical trials in RA and in ankylosing spondylitis are performed, and research is focused on new imaging and other outcome measures.

In terms of osteoarthritis research, there are a number of programs to study mechanisms of cartilage degradation and how to prevent it, and also work in pathogenesis of osteoarthritis (OA) in animal models. This is performed using the model of cutting the medial tibio-meniscal ligament. A variety of transgenic and knockout mice are being analysed. The role of matrix metalloproteinase enzymes and their inhibitors in the degradation of collagen and cartilage is being explored, as is the role of ADAM family enzymes. Complications of arthritis are being studied, atherosclerosis in particular. Here the focus is unravelling the cellular and molecular interactions to establish in more detail the mechanism of progression and thrombosis.

Selected Publications

   IF 26.000

   IF 14.505

   IF 14.505

   IF 10.555


**Current Funding**
Arthritis Research Campaign  
British Heart Foundation  
Celgene/Signal Pharma  
CRUK  
Dyax Corporation  
European Commission  
Graham Dixon Charitable Trust  
GlaxoSmithKline  
Healing Foundation  
Hammersmith Hospitals Trust Research Committee  
Imperial College Healthcare NHS Trust  
Imperial Innovations  
Kennedy Institute of Rheumatology Trust  
Leukaemia Research Fund  
Medical Research Council  
National Institute of Health/Cornell  
Novo Nordisk  
Nuon Terapeuics Ic.  
Royal College of Surgeons (England)  
Rosetta Inpharmatix LLC  
Somalogic  
University of Glasgow  
Wellcome Trust

**Training of Fellows in Research**
We have well established programs for training in both clinical and laboratory research, of all major techniques of cell culture, molecular biology and serology.

**WebPages**
http://www1.imperial.ac.uk/medicine/  
http://www1.imperial.ac.uk/medicine/about/divisions/kennedy/