

Scientific Programme

SATURDAY, JULY 14th 2007

- 13.00-17.00 Student Satellite**
G34, Sir Alexander Fleming Building
- 17.00-18.00 Welcome Reception**
- 18.15-18.30 Opening Ceremony**
Great Hall, Sherfield Building
- 18.30-19.30 PLENARY LECTURE**
Professor Sir John E. Walker, FRS, Medical Research Council,
Cambridge, United Kingdom
Oxygen, life and energy conversion
Great Hall, Sherfield Building
Chairman : Professor Sir Leszek K. Borysiewicz, Deputy Rector, Imperial College

SUNDAY, JULY 15th 2007**9.00-10.00 PLENARY LECTURE****Kazuhiko Kinosita, Jr., Waseda University, Japan**

Single-molecule physiology of protein machines

*Great Hall, Sherfield Building**Chairman : M. Ferenczi***10.30-12.30 1. SINGLE MOLECULE MECHANICS***Great Hall, Sherfield Building**Chairs : C. Veigel and M. Rief****Invited speakers*****Richard Berry**, Oxford, U.K.

Investigation of torque-generation in the bacterial flagellar motor

Christoph F. Schmidt, Göttingen, Germany

Motility and regulation of the tetrameric mitotic kinesin Eg5

Peter Hinterdorfer, Linz, Austria

Applications of Single Molecule Recognition Force Microscopy

Short talks**Jan Philipp Junker**, Garching, Germany

Direct observation of equilibrium folding / unfolding transitions of single Calmodulins by AFM

Janusz W. Strzelecki, Torun, Poland

AFM force spectroscopy of braided DNA

Andrej Vilfan, Ljubljana, Slovenia

Myosin V crossing Arp2/3 junctions: Predictions from the elastic lever arm model

10.30-12.30 2. RNA STRUCTURE & FUNCTION*Lecture Theatre 1, Room G16, Sir Alexander Fleming Building**Chairs : D. Lilley and E. Westhof****Invited speakers*****Shankar Balasubramanian**, Cambridge, U.K.

Structure and function of human telomerase

William Scott, Santa Cruz, California, U.S.A.

The structural basis of ribozyme-catalyzed RNA assembly and its implications for an RNA world

Philippe Dumas, Strasbourg, France

Equilibrium/non-equilibrium transition in biological macromolecule interactions

Frederic Allain, Zurich, Switzerland

Understanding gene regulation from the NMR structures of several protein-RNA complex

Short talk**Dagmar Klostermeier**, Basel, Switzerland

smFRET reveals nucleotide- and RNA-induced conformational changes in RNA-helicase mediated unwinding

10.30-12.30 3. LIPID BIOPHYSICS*Mechanical Engineering Lecture Theatre 220**Chairs : J. Seddon and O. Mouritsen***Invited speakers****Peter D. Olmsted**, Leeds, U.K.

Model membrane phase behaviour and detergent dissolution

Michael Kozlov, Tel Aviv, Israel

Point-like protrusion as a pre-stalk intermediate in membrane fusion pathway

Patricia Bassereau, Paris, France

Membrane deformations induced by proteins

Short talks**Miglena I. Angelova**, Paris, France

The dynamics of mitochondrial cristae – a study involving GUVs and local pH gradient modulation

Michel Lafleur, Québec, Canada

Cholesterol sulphate affects the mixing properties of the main lipid components of stratum corneum

Gemma C. Shearman, London, U.K.

A novel mechanism for drug transport through membranes

12.30-14.30 POSTER SESSION & EXHIBITS**14.30-15.45 NEW & NOTABLE (to be announced)***Great Hall, Sherfield Building**Chairs : A. Watts and G. Columbetti***16.00-18.00 4. MEMBRANE PROTEIN FOLDING***Great Hall, Sherfield Building**Chairs : P. Booth and H. Paulsen***Invited speakers****Harald Paulsen**, Mainz, Germany

Folding and assembly of light-harvesting chlorophyll a/b protein: Fluorescence and EPR kinetics

Paula Booth, Bristol, U.K.

Manipulating the assembly of transmembrane helical proteins

José Manuel González-Ros, Elche, Spain

Unfolding and refolding of a predominantly α -helical, tetrameric potassium channel protein

Short talks

Catherine Michaux, Namur, Belgium

Refolding SDS-denatured proteins by the addition of amphipathic cosolvents

Peter Schmidt, Halle-Wittenberg, Germany

Functional characterization of human neuropeptide Y receptors expressed in *E. coli*

Judith Klein-Seetharaman, Pittsburgh, U.S.A.

Comparison of transmembrane and loop contributions to stabilization and folding of membrane proteins

16.00-18.00 5. MULTISCALE SIMULATIONS

Lecture Theatre 1, Room G16, Sir Alexander Fleming Building

Chairs : G. Grant and P. Bolhuis

Invited speakers

Peter Bolhuis, Amsterdam, The Netherlands

The molecular mechanisms of protein folding and signal transduction revealed by multiscale modelling

Jonathan Essex, Southampton, U.K.

Coarse grained modelling of membrane systems

Christof Schütte, Berlin, Germany

Nanomechanics of biomolecules

Short talks

Jean-Marc Allain, Palaiseau, France

Mechanical modelling of the cellular propulsion

Silvia Morante, Roma, Italy

Ab initio studies of amyloid-metal complexes: a tool towards understanding misfolding and aggregation

16.00-18.00 6. GLYCOBIOPHYSICS

Mechanical Engineering Lecture Theatre 220

Chairs : A. Dell and A. Imberty

Invited speakers

Anne Imberty, Grenoble, France

Sweet-talk between pathogen and host: structure and thermodynamics of interaction

David Fernig, Liverpool, U.K.

Macromolecular assemblies at the cell surface: complex cell regulation directed by glycan complexity

Bjørn Torger Stokke, Trondheim, Norway

Mesoscale structure formation of polysaccharides: Induction and suppression of toroids

Short talks

Christine Ebel, Grenoble, France

Organization of human interferon gamma -heparin complexes from solution properties and hydrodynamics

Elena del Favero, Milano, Italy

Anomalous phase behaviour of glycolipid self-assembly tuned by sugar headgroup surface arrangement

Bérangère Tissot, London, U.K.

Characterisation of glycans and carbohydrate-binding proteins off chips: new mass spectrometry tools

MONDAY, JULY 16th 2007**9.00-10.00 PLENARY LECTURE****So Iwata, Imperial College, London, U.K.**

Structure and mechanism of membrane transporters

*Great Hall, Sherfield Building**Chairman : Tony (A.) J. Wilkinson***10.30-13.00 7. MACROMOLECULAR ASSEMBLIES***Great Hall, Sherfield Building**Chairs : H. Saibil and R. Beckmann****Invited speakers*****Roland Beckmann, Germany**

Following the signal sequence by cryo-EM

Carolyn Moores, London, U.K.

A unique mechanism of microtubule stabilisation by doublecortin

Bridget Carragher, La Jolla, U.S.A.

An automated pipeline for macromolecular microscopy: case studies

Carol Robinson, Cambridge, U.K.

Subunit Architecture of protein complexes derived from mass spectrometry

Short talks**Kris Pauwels, Brussels, Belgium**

Lipase-specific foldases: steric chaperones as dynamic folding platforms

10.30-12.30 8. PROTON COUPLED ELECTRON TRANSFER IN PHOTOSYNTHESIS*Lecture Theatre 1, Room G16, Sir Alexander Fleming Building**Chairs : J. Barber and W. Junge****Invited speakers*****Wolfgang Junge, Germany**

Intermediates of photosynthetic water oxidation

Colin Wraight, Urbana, U.S.A.

Design features of long distance proton transport systems in biology

P. Leslie Dutton, Philadelphia, PA, U.S.A.

Exposing the complex III Qo semiquinone radical

Leif Hammarström, Uppsala, Sweden

Mechanisms of proton-coupled electron transfer from tyrosine and tryptophan in model complexes

Daniel G. Nocera, Cambridge, Massachusetts, U.S.A.

Proton-coupled electron transfer. The mechanistic engine that drives photosynthesis

10.30-12.30 9. DNA/LIPID COMPLEXES AND DRUG DELIVERY*Mechanical Engineering Lecture Theatre 220**Chairs : J. Lawrence and J. Rädler****Invited speakers*****Joachim Rädler**, München, Germany

Stochasticity in artificial gene transfer: single cell gene expression experiments and modelling

Clive Roberts, U.K.

Single molecule imaging and force spectroscopy of nucleic acid-protein complexes

Stefaan de Smedt, Ghent, Belgium

Taking lipid/oligonucleotide complexes from buffer to living cells: A biophysical understanding of the factors influencing oligonucleotide delivery

Short talks**Marie-Pierre Rols**, Toulouse, France

Can lipid domains control drugs and DNA uptake in cells submitted to electric fields?

Sónia T. Henriques, Lisboa, Portugal

Cell-penetrating peptides can translocate without pore formation. A biophysical study with pep-1

12.30-14.30 POSTER SESSION & EXHIBITS**13.30-14.15 BBS MEDAL LECTURE***Great Hall, Sherfield Building**Chairman : Anthony Watts***Lars J. C. Jeuken**, University of Leeds, United Kingdom

Electrodes for redox-active membrane proteins

14.30-15.30 PLENARY LECTURE**Ad Bax, National Institutes of Health, U.S.A.**

Insight into structure and dynamics from weak alignment NMR

*Great Hall, Sherfield Building**Chairman : A. Watts***16.00-18.00 10. LIVE CELL IMAGING***Great Hall, Sherfield Building**Chairs : D. Davis and P. Schwill****Invited speakers*****Petra Schwill**, Dresden, Germany

New trends in fluorescence correlation spectroscopy

Justin Molloy, London, U.K.

Direct observation of single muscarinic acetylcholine receptors in live cells

Hans-Hermann Gerdes, Bergen, Norway

Tunnelling nanotubes, a novel route of cell-to-cell communication

Short talks

Sophie Pautot, Berkeley, U.S.A.

Role of neuroligin-1 oligomerization for the neuronal synapse formation probed by FLIM

Ilaria Testa, Genoa, Italy

PA-GFP 3-D localized photo-activation and tracking in living cells

Richard K. Benninger, Nashville, U.S.A.

Studying inter-cellular calcium wave propagation in pancreatic islets

16.00-18.00 11. ION CHANNELS: STRUCTURE AND FUNCTION

Lecture Theatre 1, Room G16, Sir Alexander Fleming Building

Chairs : D. Wray and D. Doyle

Invited speakers

Annette Dolphin, London, U.K.

Voltage-gated calcium channel $\alpha 2\delta$ subunits and their role as drug targets and in disease

Yasushi Okamura, Okazaki, Japan

Mechanisms and biological roles of voltage-sensor domain proteins.

Olaf Pongs, Hamburg, Germany

Structural analysis of potassium-channel-ligand complexes

Short talks

Simone Furini, Bologna, Italy

Structural and functional characteristics of the alpha-Haemolysin channel in the hexameric form

Claudio Melis, London, U.K.

Mutagenesis computer experiments on ligand-gated ion channels

Mauro Dalla Serra, Povo, Italy

Structure of the fuscopeptin pore on lipid membranes

16.00-20.15 12. PROTEIN-LIGAND INTERACTIONS

Mechanical Engineering Lecture Theatre 220

Chairs : J. Ladbury and T. Härd

Invited speakers

Torleif Härd, Göteborg, Sweden

Protein folding coupled to binding or autoproteolysis

Steve Homans, Leeds, U.K.

Dynamics and thermodynamics of ligand-protein interactions

Gerhard Klebe, Marburg, Germany

Combining isothermal titration calorimetry, crystallography and computational approaches to understand protein-ligand interactions

Rebecca Wade, Heidelberg, Germany

Modeling and simulation of protein-protein recognition and binding

Andy Davis, Loughborough, U.K.

Applications and limitations of use of X-ray structures in structure-based ligand design

Short talks

Travis Beddoe, Melbourne, Australia

A new mode of recognition: an entropically favoured T-cell receptor

Stefan T. Arold, Montpellier, France

Evolution of quorum sensing in Gram-positive bacteria revealed by the structure of PlcR

18.15-20.15 13. SINGLE MOLECULE IMAGING AND SPECTROSCOPY

Lecture Theatre 1, Room G16, Sir Alexander Fleming Building

Chairs : D. Klennerman and M. Sauer

Invited speakers

Markus Sauer, Bielefeld, Germany

Probing fast conformational dynamics of biomolecules by photoinduced electron transfer (PET)-FCS

Yuri Korchev, London, U.K.

Biomedical applications of scanning ion conductance microscopy

María F. García-Parajó, Barcelona, Spain

Single molecule NSOM microscopy resolves distinct nano-scale compartments on the cell membrane

Short talks

Andrew P. Carter, San Francisco, U.S.A.

Changing the length of the dynein stalk alters step size but not directionality

Liming Ying, London, U.K.

Nanopipette dosing for triggered single molecule experiments

TUESDAY, JULY 17th 2007**9.00-10.00 PLENARY LECTURE****Cécile Sykes, Institut Curie, Paris, France**

Building cell movements step by step

*Great Hall, Sherfield Building**Chairman : E. J. Dufourc***10.30-12.30 14. MEMBRANE MICRODOMAINS & SIGNALLING***Great Hall, Sherfield Building**Chairs : T. Magee and E. J. Dufourc****Invited speakers*****Paul O'Shea**, Nottingham, U.K.

Structural modulation of receptor-mediated signalling activity in membrane microdomains

Manuel Prieto, Lisbon, Portugal

Modulation of membrane lateral organization by the interplay of ceramide with lipid rafts

Paavo Kinnunen, Helsinki, Finland

Membrane microdomains: physics serving biology

Short talks**Salvatore Chiantia**, Dresden, Germany

Membrane protein organization and ceramide domains: a combined AFM and FCS study

Didier Marguet, Marseille, France

Dynamic map of the plasma membrane organization by FCS & Multiple Target Tracing analyses

Anca Margineanu, Leuven, Belgium

Estimation of rafts size and dynamics from single molecule confocal microscopy of a new membrane dye

10.30-12.30 15. ORGANELLE MOTILITY*Lecture Theatre 1, Room G16, Sir Alexander Fleming Building**Chairs : M. Seabra and A. Houdusse****Invited speakers*****Anne Houdusse**, Paris, France

Myosin Structures : What they reveal about the motor mechanism

Folma Buss, Cambridge, U.K.

The role of Myosin VI in protein sorting and post Golgi membrane trafficking

Dominique Soldati, Genève, Switzerland

The glideosome: the machinery powering gliding motility and host cell invasion in apicomplexan parasites

Short talks**Michael A. Ferenczi**, London, U.K.

Time-course and strain dependence of ADP-release during contraction of permeabilised muscle fibres

Guillaume Romet-Lemonne, Gif-sur-Yvette, France

Actin-based propulsion of GUVs is controlled by Arp2/3 complex and membrane-diffusion of N-WASP

Luis M. Gutiérrez, Alicante, Spain

SNARE cluster dynamics influences chromaffin granule motion and probability of fusion

10.30-12.30 16. INTERACTION AND RECOGNITION OF DNA*Mechanical Engineering Lecture Theatre 220**Chairs : A. Kornyshev and S. Lemay***Invited speakers****Serge G. Lemay**, Delft, Netherlands

Condensation of single DNA molecules by multivalent ions observed using magnetic tweezers

Helmut Schiessel, Leiden, Netherlands

The nucleosome: A transparent, slippery, sticky and yet stable DNA-protein complex

Sergey Leikin, Bethesda, MD, U.S.A.

Structure-dependent interactions between DNA double helices

Short talks**Geoff S. Baldwin**, London, U.K.

Spontaneous separation of homologous DNA duplexes in a protein-free environment

Deshmukh Gopaul, Paris, France

Integron Integrases: Broad DNA specificity and bacterial adaptation

Alexander M. Polyanchko, Saint Petersburg, Russian Federation

Structural organization of the DNA-HMGB1 complexes revealed by VCD and AFM studies

12.30-15.30 POSTER SESSION & EXHIBITS**14.00-15.30 EBSA GENERAL ASSEMBLY***Great Hall, Sherfield Building*

16.00-18.00 17. BIONANOMATERIALS & DESIGN*Great Hall, Sherfield Building**Chairs : A. Turberfield and T. Scheibel****Invited speakers*****Thomas Scheibel**, Garching, Germany

Spider silk – a basis for new materials

Tony Cass, London, U.K.

Functional interfaces between biomolecules and nanomaterials

Paul W. K. Rothmund, Pasadena, U.S.A.

DNA origami: folding DNA to create arbitrary shapes and patterns

Short talks**Claudia Steinem**, Göttingen, Germany

Functional studies on membrane proteins using micro- and nano-BLMs

Yavuz Erkan, Gothenburg, Sweden

SU-8 patterned chips for controlled film formation: lipid monolayer spreading and DNA immobilization

Tatiana Schmatko, Strasbourg, France

From lambda DNA grafted colloids with specific binding ends to finite size clusters

16.00-18.30 18. FLUORESCENT PROTEINS: APPLICATIONS*Lecture Theatre 1, Room G16, Sir Alexander Fleming Building**Chairs : S. Meech and A. Zumbusch****Invited speakers*****Andreas Zumbusch**, Konstanz, Germany

Comparative FCS- and TCSPC studies on autofluorescent proteins

Clive Bagshaw, Leicester, U.K.

Complexities of Green Fluorescent Proteins as probes in biological systems.

Dan Huppert, Tel-Aviv, Israel

Excited state proton transfer in the green fluorescent protein and its mutants

Short talks**Cristina Flors**, Leuven, Belgium

Ultrafast excited-state dynamics of the photoswitchable protein Dronpa

Jasper J. van Thor, London, U.K.

High resolution structural details of functional dynamics in the Green Fluorescent Protein

16.00-18.00 19. CHEMOTAXIS AND SIGNAL TRANSDUCTION*Mechanical Engineering Lecture Theatre 220**Chairs : T. Duke and V. Sourjik****Invited speakers*****Victor Sourjik**, Heidelberg, Germany

Signal amplification and noise in bacterial chemotaxis

Cornelis Weijer, Dundee, U.K.

Chemotactic cell movement and its role development

Luis Alvarez, Jülich, Germany

Biophysics of chemotaxis in sperm

Short talks**Benjamin M. Friedrich**, Dresden, Germany

Theoretical description of chemotaxis in sperm

Roberto Marangoni, Pisa, ItalyPhotoresponses in *H. halobium* simulated via systems biology approach

WEDNESDAY, JULY 18th 2007**9.00-10.00 PLENARY LECTURE****James Spudich, Stanford, U.S.A.**

Regulation of the cell's dynamic city plan and the myosin family of molecular motors

*Great Hall, Sherfield Building**Chairman : C. Veigel***10.30-12.30 20. SINGLE MOLECULE FLUORESCENCE***Great Hall, Sherfield Building**Chairs : J. Molloy and G. Schütz****Invited speakers*****Gerhard Schütz**, Linz, Austria

Addressing plasma membrane structure at the nanometer length scale

David Klenerman, Cambridge, U.K.

New methods in single molecule fluorescence

Ulrich Kubitscheck, Bonn, Germany

Real-time single molecule microscopy in living cell nuclei

Short talks**Irina V. Perevoschikova**, Moscow, Russian Federation

Brightness analysis of isolated mitochondria doped with TMRE and Mitotracker

Stefan Lakämper, Göttingen, Germany

The effect of monastrol on the motility of a Eg5-head/DmKHC-stalk chimera

Gert-Jan Bakker, Barcelona, Spain

The influence of cations on the cluster mobility of LFA-1 in living cells

10.30-12.30 21. ELECTRON TRANSFER*Lecture Theatre 1, Room G16, Sir Alexander Fleming Building**Chairs : J. Butt and M. Ubbink****Invited speakers*****Marcellus Ubbink**, Leiden, Netherlands

Transient protein electron transfer complexes studied by NMR

Nigel Scrutton, Manchester, U.K.

Isotope effects and tunneling in enzyme systems

Brian R. Crane, Ithaca, New York, U.S.A.

Electron tunneling and conformational change in protein redox reactions

Short talks**Julea Butt**, Norwich, U.K.

Enzymes on the edge - voltammetric studies of a multiheme cytochrome

Jochen Blumberger, Cambridge, U.K.

Franck-Condon factors for intra-protein electron transfer reactions from MD simulation

Dima A. Bloch, Helsinki, Finland

Thermodynamic properties of the redox centers in aa3-type cytochrome c oxidase

10.30-12.30 22. ION CHANNELS & CANCER

Mechanical Engineering Lecture Theatre 220

Chairs : M. Djamgoz and B. Soria

Invited speakers

Bernat Soria, Elche, Spain

Ionic channels in non-differentiated proliferative cells

Scott Fraser, London, U.K.

Electrophysiological effects of estrogen on voltage-gated Na⁺ channels in human breast cancer cells

Zbigniew J. Grzywna, Gliwice, Poland

On the first passage time distributions for K channels of the cancer cells.

Annarosa Arcangeli, Firenze, Italy

Unconventional ion channel signalling in cancer cells: interaction with adhesion receptors.

Short talk

Bryan R. Downie, Göttingen, Germany

Eag1 potassium channel non-canonical function induces upregulation of cancer genes

12.30-13.30 POSTER SESSION & EXHIBITS

14.00-16.00 23. DISORDERED AND AGGREGATED PROTEINS

Great Hall, Sherfield Building

Chairs : G. Roberts and P. Tompa

Invited speakers

Peter Tompa, Budapest, Hungary

Structural disorder and the functional promiscuity of proteins

David T. Jones, London, U.K.

Inferring protein function from patterns of native disorder

Keith Dunker, Indianapolis, Indiana, U.S.A.

Protein intrinsic disorder, cell signalling, and alternative splicing

Short talks

Colin Kleanthous, York, U.K.

Molecular mimicry by an intrinsically unstructured protein

Véronique Receveur-Bréchet, Marseille, France

The natively unfolded transcription activator Tat protein from HIV-1 is almost a random coil

Andras Szilágyi, Budapest, Hungary
The twilight zone between order and disorder

14.00-16.00 24. PHOTODYNAMIC THERAPY
Lecture Theatre 1, Room G16, Sir Alexander Fleming Building
Chairs : D. Phillips and G. Jori

Invited speakers

Giulio Jori, Padova, Italy
Photothermal sensitisation as a novel therapeutic approach for tumours

Sandy MacRobert, London, U.K.
Photosensitisers for photodynamic therapy and photochemical internalisation

Hubert van den Bergh, Lausanne, Switzerland
Photodynamic therapy (PDT) for treating age related macular degeneration (ARMD)

Short talks

Nicolae S. Stanciu, Bucharest, Romania
Biophysical features of the VEP

Karin A. Riske, Sao Paulo, Brazil
Observing the irradiation of a photosensitizer incorporated in giant unilamellar vesicles

14.00-16.00 25. MOTOR PROTEINS IN RNA/DNA METABOLISM
Mechanical Engineering Lecture Theatre 220
Chairs : M. Szczelkun and R. Tuma

Invited speakers

Mark Szczelkun, Bristol, U.K.
Mechanism, control and diversity of molecular motors on DNA

Roman Tuma, Helsinki, Finland
Mechanism of RNA translocation by a viral packaging motor

Peixuan Guo, West Lafayette, Indiana, U.S.A.
Single molecule detection of six pRNAs and direct observation of phi29 DNA-packaging motor with customized single molecule dual-view system

Eckhard Jankowsky, Cleveland, U.S.A.
RNA helicases: ATP-driven switches and motors for RNA structural changes

Achillefs N. Kapanidis, Oxford, U.K.
Single-molecule studies of sigma54-dependent transcription

- 16.30-17.15** EBSA PRIZE LECTURE
Great Hall, Sherfield Building
Chairman : Erick J. Dufourc
Marc Baldus, Max Planck Institute for Biophysical Chemistry, Göttingen, Germany
Studying structure and dynamics of protein complexes by solid-state NMR spectroscopy
- 17.15-17.45** POSTER PRIZE AWARDS AND CLOSING CEREMONY
Great Hall, Sherfield Building
- 18.00-20.00** EBSA EXECUTIVE COMMITTEE MEETING
Room 128, first floor, Sir Alexander Fleming Building

OTHER EVENTS

- Saturday 15.00-17.00** EBSA Executive Committee Meeting
Room 128, first floor, Sir Alexander Fleming Building
- Sunday 18.30-19.45** Concert: *Ruth Waterman Explores and Performs Beethoven's Spring Sonata, plus Barber's Canzona and Prokofiev's March*
Ruth Waterman, violin; Timothy Carey, piano
Great Hall, Sherfield Building
- Monday 13.00-14.30** National Societies Meeting
- Tuesday 12.30-16.00** EBSA lunch (by invitation) and General Assembly, 14:30-16:00
Great Hall, Sherfield Building
- Wednesday 18.00-20.00** EBSA Executive Committee Meeting
Room 128, first floor, Sir Alexander Fleming Building