

Subscribing organizations are encouraged to copy and distribute this table of contents for non-commercial purposes

---

## Biochemical Society Award Lecture

---



Tuberculosis: a balanced diet of lipids and carbohydrates

**Veemal Bhowruth, Luke J. Alderwick, Alistair K. Brown, Apoorva Bhatt and Gurdyal S. Besra** 555–565

---

## Heatley Medal Lecture

---



What we have learned from ribosome structures

**V. Ramakrishnan** 567–574

---

## Novartis Award Lecture

---



The methyl-CpG-binding protein MeCP2 and neurological disease

**Adrian Bird** 575–583

---

## Biochemical Society Linked Focused Meetings

---

### Transcription

University of Manchester, U.K., 26–28 March 2008

**Edited by Stefan Roberts (Manchester, U.K.) and Robert White (Beatson Institute, Glasgow, U.K.).**

---

Transcription factories

**David R.F. Carter, Christopher Eskiw and Peter R. Cook** 585–589

Expression of human snRNA genes from beginning to end

**Sylvain Egloff, Dawn O'Reilly and Shona Murphy** 590–594

Interaction of the TFIIB zinc ribbon with RNA polymerase II

**Laura M. Elsby and Stefan G.E. Roberts** 595–598

Chromatin switching and transcriptional regulation in disease

**Lezanne Ooi and Ian C. Wood** 599–602

Regulation of the RelA (p65) transactivation domain

**John M. O'Shea and Neil D. Perkins**



**603–608**

The DEAD box RNA helicases p68 (Ddx5) and p72 (Ddx17): novel transcriptional co-regulators

**Frances V. Fuller-Pace and Simak Ali**

**609–612**

Switching genes on and off in haemopoiesis

**David Garrick, Marco De Gobbi, Magnus Lynch and Douglas R. Higgs**

**613–618**

### **Selected oral communications**

Structure and function of ribosomal RNA gene chromatin

**Joanna L. Birch and Joost C.B.M. Zomerdijk**

**619–624**

Regulation of transcription by the Epstein–Barr virus nuclear antigen EBNA 2

**Richard D. Palermo, Helen M. Webb, Andrea Gunnell and Michelle J. West**

**625–628**

The role of the Wilms' tumour-suppressor protein WT1 in apoptosis

**Jörg Hartkamp and Stefan G.E. Roberts**

**629–631**

Progesterone regulation of RUSH/SMARCA3/HLTF includes DNA looping

**Beverly S. Chilton and Aveline Hewetson**

**632–636**

The reversal of epigenetic silencing of the EBV genome is regulated by viral bZIP protein

**Questa H. Karlsson, Celine Schelcher, Elizabeth Verrall, Carlo Petosa and Alison J. Sinclair**

**637–639**

---

### **Post-Transcriptional Control**

University of Manchester, U.K., 26–28 March 2008

**Edited by Nicola Gray (MRC Human Genetics Unit, Edinburgh, U.K.), Simon Morley (University of Sussex, U.K.) and Graham Pavitt (Manchester, U.K.).**

---

Polypyrimidine-tract-binding protein: a multifunctional RNA-binding protein

**Kirsty Sawicka, Martin Bushell, Keith A. Spriggs and Anne E. Willis**

**641–647**

Subcellular localization of mRNA and factors involved in translation initiation

**Nathaniel P. Hoyle and Mark P. Ashe**

**648–652**

Mechanism of ribosomal subunit joining during eukaryotic translation initiation

**Michael G. Acker and Jon R. Lorsch**

**653–657**

Clues to the mechanism of action of eIF2B, the guanine-nucleotide-exchange factor for translation initiation

**Sarah S. Mohammad-Qureshi, Martin D. Jennings and Graham D. Pavitt**

**658–664**

Sequential waves of polyadenylation and deadenylation define a translation circuit that drives meiotic progression

**Eulàlia Belloc, Maria Piqué and Raúl Méndez**

**665–670**

Translational control in early development: CPEB, P-bodies and germinal granules

**Nancy Standart and Nicola Minshall**

**671–676**

Ribosomal acrobatics in post-transcriptional control  
**Robert J.C. Gilbert, Ian Brierley and John E.G. McCarthy** 677–683

RNA pseudoknots and the regulation of protein synthesis  
**Ian Brierley, Robert J.C. Gilbert and Simon Pennell** 684–689

### **Selected oral communications**

Lentiviral RNAs can use different mechanisms for translation initiation  
**Emiliano P. Ricci, Ricardo Soto Rifo, Cécile H. Herbreteau, Didier Decimo and Théophile Ohlmann** 690–693

Contribution of internal initiation to translation of cellular mRNAs containing IRESs  
**Eugenia S. Mardanova, Ludmila A. Zamchuk and Nikolai V. Ravin** 694–697

UPF1 P-body localization  
**Saverio Brogna, Preethi Ramanathan and Jikai Wen** 698–700

Regulation of translation initiation by herpesviruses  
**Richard W.P. Smith, Sheila V. Graham and Nicola K. Gray** 701–707

Post-transcriptional regulation of gene expression by alternative 5'-untranslated regions in carcinogenesis  
**Laura Smith** 708–711

Dissection of a co-translational nascent chain separation event  
**Victoria A. Doronina, Pablo de Felipe, Cheng Wu, Pamila Sharma, Matthew S. Sachs, Martin D. Ryan and Jeremy D. Brown** 712–716

Translational termination–re-initiation in viral systems  
**Michael L. Powell, T. David K. Brown and Ian Brierley** 717–722

---

### **New Methods for the Study of Protein–Nucleic Acid Interactions**

University of Manchester, U.K., 26–28 March 2008

**Edited by Steve Busby (Birmingham, U.K.), W. Marshall Stark (Glasgow, U.K.) and Malcolm White (St Andrews, U.K.).**

---

The emerging role of MS in structure elucidation of protein–nucleic acid complexes  
**Yuliya Gordiyenko and Carol V. Robinson** 723–731

Single-molecule micromanipulation studies of DNA and architectural proteins  
**Remus Th. Dame** 732–737

Red light, green light: probing single molecules using alternating-laser excitation  
**Yusdi Santoso, Ling Chin Hwang, Ludovic Le Reste and Achillefs N. Kapanidis** 738–744

Time-resolved footprinting for the study of the structural dynamics of DNA–protein interactions  
**Bianca Sclavi** 745–748

Visualizing genetic loci and molecular machines in living bacteria  
**Xindan Wang, Rodrigo Reyes-Lamothe and David J. Sherratt** 749–753

Methods for studying global patterns of DNA binding by bacterial transcription factors and RNA polymerase <b>David C. Grainger and Stephen J.W. Busby</b>	<b>754–757</b>
Computational approaches to study transcriptional regulation <b>M. Madan Babu</b>	<b>758–765</b>
The shock of the old: hydrodynamics for the masses <b>David J. Scott</b>	<b>766–770</b>
Higher-throughput approaches to crystallization and crystal structure determination <b>Mark J. Fogg and Anthony J. Wilkinson</b>	<b>771–775</b>
Visualizing the organization and reorganization of transcription complexes for gene expression <b>Patricia C. Burrows, Sivaramesh Wigneshweraraj, Dan Bose, Nicolas Joly, Jörg Schumacher, Mathieu Rappas, Tilmann Pape, Peter G. Stockley, Xiaodong Zhang and Martin Buck</b>	<b>776–779</b>