Colworth Medal Lecture

Structural Studies of Reversible Protein Phosphorylation and Protein Phosphatases

D. BARFORD 751

Colworth Medal Lecture

Enzymes in the Quantum World

N. S. SCRUITON 767

colloquia

669th Meeting, University of Keele

colloquium: Molecular Control of Apoptosis

MHC linked genes associated with apoptosis/programmed cell death

T. RICH, R. STEPHENS and J. TROWSDALE 781

Bcl-2-related proteins and cancer

L. MCCARTHY-MORROGH, A. MOUZAKITI, P. TOWNSEND, M. BRIMMELL and G. PACKHAM 785

c-Jun and Bax: regulators of programmed cell death in developing neurons

A. EILERS, J. WHITFIELD, K. VERRELLIS, S. J. NEAME, B. SHAH and J. HAM 790

Caspases and commitment to cell death

V. L. HEDGE and G. T. WILLIAMS 797

Apoptosis and the regulation of neutrophil lifespan

M. WHYTE, S. RENSHAW, R. LAWSON and C. BINGLE 802

Epstein-Barr virus and apoptosis: viral mimicry of cellular pathways

L. S. YOUNG, C. W. DAWSON and A. G. ELIOPOULOS 807

Death receptors, NF-κB activation and apoptosis: the potential for therapeutic intervention

S. N. FARROW 812

colloquium: Structure and Function of A-Domains

Structural and functional modelling of von Willebrand factor type A domains in complement and coagulation

S. J. PERKINS, J. HINSHELWOOD, Y. J. K. EDWARDS and P. V. JENKINS 815

Functional role of A-domains in type VI collagen

A. SHUTTLEWORTH, S. BALL, C. BALDOCK, H. FAKHOURY and C. M. KIELTY 821

The matrilins: a growing family of A-domain-containing proteins

M. PAULSSON, D. PECHA, D. SEGAT, N. SMYTH and R. WAGENER 824

Volume 27 Part 6 December 1999
Integrin I domains and their function  
B. Leitinger and N. Hogg  
VIT-1: the second member of a new branch of the von Willebrand factor A domain superfamily  
Evolution of von Willebrand factor A (VWA) domains  
D. Tuckwell

**coloquium: Gene Therapy: from Bench to Bedside**

**Lentivirus vectors for gene therapy**  

**Herpes virus vectors for gene therapy in the nervous system**  
D. S. Latchman

**Targeted transfection of neuronal cells using a poly(L-lysine)-cholera-toxin b chain conjugate**  
L. B. Barrett, A. Logan, M. Berry, W. Ying, A.-M. Gonzalez, A. Bard and L. W. Seymour

**Cell-type specific expression in the pituitary: physiology and gene therapy**  
M. G. Castro, S. Windeatt, J. Smith-Arica and P. R. Lowenstein

**Adenovirus-mediated cytokine gene transfer in heart allograft transplantation**  

**Immunotherapy of auto-immune diseases by gene transfer**  

**The basic science of brain-tumour gene therapy**  
P. R. Lowenstein, R. Cowen, C. Thomas and M. G. Castro

**coloquium: Expression and Purification of Membrane Proteins**

**Membrane-protein biosynthesis at the endoplasmic reticulum**  
S. High, J. J. A. Greenfield, S. L. Meacock and J. D. Oliver

**Expression and purification of the mitochondrial uncoupling proteins: a comparative study between Escherichia coli and Saccharomyces cerevisiae**  
C. Pecqueur, D. Vacher and B. Miroux

**Expression of prokaryotic membrane transport proteins in Escherichia coli**  
Improved purification of a rat neurotensin receptor expressed in Escherichia coli
Overexpression and refolding of an 80-kDa iron transporter from the outer membrane of Escherichia coli
Refolding of G-protein-coupled receptors from inclusion bodies produced in Escherichia coli
Amplified expression and membrane reconstitution of transport proteins
Heterologous expression of the red-cell anion exchanger (band 3; AE1)
Overexpression of eukaryotic membrane proteins in transgenic tobacco: pioneering the 'green expression system' with the purification and crystallization of recombinant light-harvesting complex II
The use of baculovirus vectors for the production of membrane proteins in insect cells
Molecular chaperones improve functional expression of the serotonin (5-hydroxytryptamine) transporter in insect cells
Large-scale functional expression of visual pigments: towards high-resolution structural and mechanistic insight
Heterologous expression of mammalian and insect neuronal nicotinic acetylcholine receptors in cultured cell lines
Expression and purification of rhodopsin and its mutants from stable mammalian cell lines: application to NMR studies
Transient-expression technologies, their application and scale-up: 5-HT3 serotonin receptor case study

 Correction:  

Cumulative indices:

Author index  
Subject index