

## colloquia

### 677th Meeting, Cardiff University, Wales

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#### colloquium: Biology of the Intervertebral Disc

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<b>Clinical importance of the intervertebral disc, or back pain for biochemists</b>	J. FAIRBANK	<b>829</b>
<b>Expression of type II procollagens during development of the human intervertebral disc</b>	A. McALINDEN, Y. ZHU AND L. J. SANDELL	<b>831</b>
<b>The role of disc cell heterogeneity in determining disc biochemistry: a speculation</b>	T. R. OEGEMA, JR	<b>839</b>
<b>Collagen polymorphisms of the intervertebral disc</b>	D. R. EYRE, Y. MATSUI AND J.-J. WU	<b>844</b>
<b>Elastic tissues of the intervertebral disc</b>	J. YU	<b>848</b>
<b>Mechanobiology of the intervertebral disc</b>	J. C. LOTZ, A. HSIEH, A. L. WALSH, E. I. PALMER AND J. R. CHIN	<b>853</b>
<b>The role of the physicochemical environment in determining disc cell behaviour</b>	J. P. G. URBAN	<b>858</b>
<b>Disc morphology in health and disease</b>	S. ROBERTS	<b>864</b>
<b>The role of proteoglycans in aging, degeneration and repair of the intervertebral disc</b>	P. J. ROUGHLEY, M. ALINI AND J. ANTONIOU	<b>869</b>
<b>Compartmentalization of the matrix formed by nucleus pulposus and annulus fibrosus cells in alginate gel</b>	E. THONAR, H. AN AND K. MASUDA	<b>874</b>

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<b>Erythropoietin and interleukin-<math>1\beta</math> modulate nitrite production in a Swiss 3T3 cell model of rheumatoid synovial fibroblasts</b>	S. BAIG, Y. PATEL, P. COUSSONS AND R. GRANT	<b>883</b>
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<b>The glutamate transporter GLAST-I (EAAT-I) is expressed in the plasma membrane of osteocytes and is responsive to extracellular glutamate concentration</b>	J. F. HUGGETT, A. MUSTAFA, L. O'NEAL AND D. J. MASON	<b>890</b>
<b>Recent developments in cartilage research: matrix biology of the collagen II/IX/XI heterofibril network</b>	D. R. EYRE, J.-J. WU, R. J. FERNANDES, T. A. PIETKA AND M. A. WEIS	<b>894</b>

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<b>Plant protein families and their relationships to food allergy</b>	P. R. SHEWRY, F. BEAUDOIN, J. JENKINS, S. GRIFFITHS-JONES AND E. N. C. MILLS	<b>906</b>
<b>Clinical importance of non-specific lipid transfer proteins as food allergens</b>	R. VAN REE	<b>910</b>
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<b>Regulation of lipid accumulation in oleaginous micro-organisms</b>	C. RATLEDGE	<b>1047</b>
<b>Mechanistic diversity and regulation of Type II fatty acid synthesis</b>	H. MARRAKCHI, Y.-M. ZHANG AND C. O. ROCK	<b>1050</b>
<b>Investigations into the regulation of lipid biosynthesis in <i>Brassica napus</i> using antisense down-regulation</b>	A. R. SLABAS, A. WHITE, P. O'HARA AND T. FAWCETT	<b>1056</b>

<b>Regulation of mammalian acetyl-CoA carboxylase</b>	M. R. MUNDAY	<b>1059</b>
<b>Regulation of fatty acid synthesis and oxidation by the AMP-activated protein kinase</b>	D. G. HARDIE AND D. A. PAN	<b>1064</b>
<b>Transcription factors acting on the promoter of the rat fatty acid synthase gene</b>	M. SCHWEIZER, K. RÖDER, L. ZHANG AND S. S. WOLF	<b>1070</b>
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## Focused meeting

### Ribozymes and RNA Catalysis

#### Ribozyme mechanisms

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<b>The catalytic mechanism of the hairpin ribozyme</b>	M. J. FEDOR	<b>1109</b>
<b>Hairpin and hammerhead ribozymes: how different are they?</b>	J. M. BURKE	<b>1116</b>
<b>The hammerhead ribozyme</b>	K. F. BLOUNT AND O. C. UHLENBECK	<b>1119</b>
<b>The <i>Neurospora</i> Varkud satellite ribozyme</b>	R. A. COLLINS	<b>1122</b>

#### The Ribosome

<b>Biochemical identification of A-minor motifs within RNA tertiary structure by interference analysis</b>	S. A. STROBEL	<b>1126</b>
<b>Molecular aspects of the ribosomal peptidyl transferase</b>	S. DÖRNER, N. POLACEK, U. SCHULMEISTER, C. PANUSCHKA AND A. BARTA	<b>1131</b>

## Selectivity and Novel RNA-Catalysed Activity

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<b>Mechanism of action of hammerhead ribozymes and their applications <i>in vivo</i>: rapid identification of functional genes in the post-genome era by novel hybrid ribozyme libraries</b>	Y. TAKAGI, E. SUYAMA, H. KAWASAKI, M. MIYAGISHI AND K. TAIRA	<b>1145</b>
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