Poster Abstracts (continued)

Blue Light Effects, Photochemistry, Luciferase			
I01	Class II DNA photolyase from <i>Arabidopsis thaliana</i> contains FAD as cofactor	Oliver Kleiner, Jens Butenandt, Thomas Carell and Alfred Batschauer	
I02	Occurrence of P-flavin binding protein in <i>Vibrio</i> fischerii and properties of the protein	Sabu Kasai	
I03	Modelling the intermediate IV of the luciferase reaction: characterisation of the complex of 5-decylFMN-4a-OH with <i>Vibrio harveyi</i> luciferase	Benfang Lei, Qizhu Ding and Shiao- Chun Tu	
I04	In DNA photolyase from <i>Anacystis nidulans</i> primary electron transfer from tryptophan to FADH ⁺ is followed by oxidation of a tyrosine residue	Corinne Aubert, Paul Mathis, André P. M. Eker and Klaus Brettel	
I05	DCRY: A <i>Drosophila</i> photoreceptor protein implicated in light entrainment of circadian rhythm	Tomoko Ishiwaka, Akira Matsumoto, Teiichi Tanimura, Shin Togashi, Ryu Ueda and Takeshi Todo	
I06	Isolation and characterization of DNA photolyase/cytochrome family in Zebra fish	Yuri Kobayashi, Tomoko Ishikawa and Takeshi Todo	
Flavoj	Flavoproteins, 3D Structures		
J01	Crystal structures of "unactivated" p- hydroxybenzoate hydroxylase	Michel H. M. Eppink, Willem J. H. van Berkel, Alex Tepliakov and Herman A. Schreuder	
J02	Crystallographic studies of a complex between the ferredoxin-NADP ⁺ -reductase from the cyanobacterium <i>Anabaena</i> PCC7119 and its functional partner	Renaud Morales, Galina Kachalova, Marie-Hélène Charon and Michael Frey	
J03	X-Ray structure of a monomeric α subunit of the sulfite reductase from $E.\ coli$	A. Gruez, D. Pignol, J. L. Ferrer, M. Zeghouf, J. Coves, M. Fontecave and JC. Fontecilla-Camps	
J04	NMR-studies on FMN-binding protein from Desulfovibrio vulgaris (Miyazaki F)	Masaya Kitamura, Hideo Inoue, Edwards Liepinsh and Gottfried Otting	
J05	Crystal structures of the tetraheme flavoprotein enzyme fumarate reductase from <i>Shewanella putrefaciens</i> strain MR1	David Leys, Alexandre Tsapin, Terrance E. Meyer, Michael A. Cusanovich, Yves Guisez Jozef J. Van Beeumen	
J06	Crystallographic analysis of C44S NADH oxidase from the human pathogen <i>Streptococcus pyogenes</i>	T. Conn Mallett, Hiroaki Sakai, Derek Parsonage, Al Claiborne and Tomitake Tsukihara	
J07	A model of the structure of 6-hydroxy-D-nicotine oxidase	William S. McIntyre, Igor Efimov, Louise M. Cunane and Scott Mathews	

J08	Crystal structure of the flavin reductase Fre from Escherichia coli	Margareta Ingelman, S. Ramaswamy, Vincent Nivière, Marc Fontecave and Hans Eklund
J09	Towards the structure of a soluble fumarate reductase	Sara L. Pealing, Paul Taylor, Graeme A. Reid, Stephen K. Chapman and Malcolm D. Walkinshaw
J10	Characterization of two <i>E. coli</i> methylenetetrahydrofolate reductase (MTHFR) mutants, Asp120Asn and Glu28Gln	Elizabeth E. Trimmer, Brian D. Guenther, Martha L. Ludwig and Rowena Matthews
J11	Characterization of glutathione amide reductase from the purple bacterium, <i>Chromatium gracile</i>	Bjorn Vergauwen, Vesna Kostanjevecki, Yves Guissez and Robert Bartsch
J12	Domain structure and kinetic analysis of streptococcal L- α -glycerophosphate oxidase	Véronique Charrier, James Luba, Derek Parsonage and Al Claiborne
J13	Refined 2.1 \mathring{A} structure of the cysteine-sulfenic acid redox center in NADH peroxidase	Joanne I. Yeh, T. Conn Mallett, Edward J. Crane III, Derek Parsonage, Wim G. J. Hol and Al Claiborne
J14	Crystal structure of polyamine oxidase from Zea mays L. at 1.9 Å resolution	Claudia Binda, Alessandro Coda, Riccardo Angelini, Rodolfo Federico, Paolo Ascenzi and Andrea Mattevi
J15	A new functional model for the Escherichia coli sulfite reductase: the $\alpha 1\beta 1$ complex	Jaques Coves, Mahel Zeghouf and Marc Fontecave
Monooxygenases		
Mono	oxygenases	
Mono K01	oxygenases Is charge transfer complex formation essential for reduction of p-hydroxybenzoate hydroxylase?	Barrie Entsch, Mariliz Ortiz- Maldonado and David P. Ballou
	Is charge transfer complex formation essential for	
K01	Is charge transfer complex formation essential for reduction of <i>p</i> -hydroxybenzoate hydroxylase? Catalytic mechanism of 2-hydroxybiphenyl 3-	Maldonado and David P. Ballou Winfried A. Suske, Hans-Peter
K01 K02	Is charge transfer complex formation essential for reduction of <i>p</i> -hydroxybenzoate hydroxylase? Catalytic mechanism of 2-hydroxybiphenyl 3-monooxygenase Purification and some properties of acetophenone	Maldonado and David P. Ballou Winfried A. Suske, Hans-Peter Kohler and Willwm J. H. van Berkel Mariëlle J. H. Moonen, Ivonne M. C. M. Rietjens and Willem J. H. van
K01 K02 K03	Is charge transfer complex formation essential for reduction of <i>p</i> -hydroxybenzoate hydroxylase? Catalytic mechanism of 2-hydroxybiphenyl 3-monooxygenase Purification and some properties of acetophenone monooxygenase Effect of Substrate and Flavin Activation on the Hydroxylation Reaction of <i>p</i> -Hydroxybenzoate Hydroxylase: Studies of Site Directed Mutants	Maldonado and David P. Ballou Winfried A. Suske, Hans-Peter Kohler and Willwm J. H. van Berkel Mariëlle J. H. Moonen, Ivonne M. C. M. Rietjens and Willem J. H. van Berkel Mariliz Ortiz-Maldonado, David P.
K01 K02 K03 K04	Is charge transfer complex formation essential for reduction of <i>p</i> -hydroxybenzoate hydroxylase? Catalytic mechanism of 2-hydroxybiphenyl 3-monooxygenase Purification and some properties of acetophenone monooxygenase Effect of Substrate and Flavin Activation on the Hydroxylation Reaction of <i>p</i> -Hydroxybenzoate Hydroxylase: Studies of Site Directed Mutants Substituted with 8-Cl-FAD Heterologous Expression and Kinetic Characterization of Human Squalene	Maldonado and David P. Ballou Winfried A. Suske, Hans-Peter Kohler and Willwm J. H. van Berkel Mariëlle J. H. Moonen, Ivonne M. C. M. Rietjens and Willem J. H. van Berkel Mariliz Ortiz-Maldonado, David P. Ballou and Vincent Massey

K08	Coenzyme recognition by flavoprotein aromatic hydroxylases	Willem J. H. van Berkel, Michel Eppink and Herman Schreuder	
Flavir	ns and Oxygen, Various		
L01	Kinetics, mechanism and regulation of elementary steps of catalysis of pyruvate oxidase from <i>Lactobacillus plantarum</i>	Kai Tittmann, Ralph Golbik, Sandro Ghisla and Gerhard Hübner	
L02	Studies on the peroxide- reducing system of <i>Thermus aquaticus</i> .	Catriona Logan and Stephen G. Mayhew	
L03	Overproduction of <i>Lactococcus lactis</i> NADH oxidase and its application to metabolic engineering	Derek Parsonage, Michiel Kleerebezem, Iris I. van Swam and Al Claiborne	
L04	Converting a dehydrogenase into an oxidase	Graeme A. Reid, Stephen K. Chapman, Lars Østergaard and Martin L. Goble	
L05	What protein features make p-hydroxybenzoate hydroxylase react rapidly with oxygen?	Willem van Berkel, Michel Eppink, Herman Schreuder, Mariliz Ortiz-Maldonado, David Ballou and Barrie Entsch	
L06	The intermediates involved in the catalytic reaction of cyclohexanone monooxygenase	Dawei Sheng, David P. Ballou and Vincent Massey	
Amine Dehydrogenation			
M01	Substrate inhibition in trimethylamine dehydrogenase	Peter Roberts, Jaswir Basran, Emma K. Wilson, Russ Hille and Nigel S. Scrutton	
M02	Bacterial amine oxidation through horizontal gene transfer from an eukaryotic source	Susann Schenk and Karl Decker	
M03	A novel heterotrimeric flavoprotein involved in bacterial nicotine catabolism	Susann Schenk, André Hoelz and Karl Decker	
M04	High level expression and characterization of recombinant human liver MAO B	Paige Newton-Vinson and Dale E. Edmondson	
M05	A mechanism for monoamine oxidase involving a redox-active disulfide	Rona R. Ramsay	
M06	Involvement of mitochondrial matrix in the holoenzyme formation of dimethylglycine dehydrogenase	Carmen Brizio, Annegret Otto, Ernesto Quagliariello, Roderich Brandsch, Salvatore Passarella and Maria Barile	
M07	Hydrogen tunnelling in amine dehydrogenases from methylotrophic bacteria	Jaswir Basran, Peter Roberts, Michael J. Sutcliffe and Nigel S. Scrutton	
M08	Investigating the mechanism of C-H bond breakage in heterotetrameric sarcosine oxidase from <i>Arthrobacter</i> sp. 1-IN	Richard J. Harris, Rolandas Meskys, Michael Sutcliffe and Nigel S. Scrutton	

M09	The reductive half-reaction of trimethylamine dehydrogenase with trimethylglutamine	Mei-Huei Jang, Jaswir Basran, Nigel S. Scrutton and Russ Hille	
M10	Interaction of FAD analogues with the C406A mutant apoenzyme of human liver monoamine oxidase A	Ravi K. Nandigama and Dale E. Edmondson	
α -Hyd	roxy Acid Dehydrogenases		
N01	X-ray studies of recombinant rat kidney long-chain hydroxy acid oxidase and of the recombinant flavin-binding domain of bakers yeast flavocytochrome \boldsymbol{b}_2	Louise Cunane, Fraser Welsh, John Barton, Zhi-wei Chen, Ahmed Belmouden, K. H. Diêp Lê, Florence Lederer, Steve Chapman, Graeme Reid and F. Scott Mathews	
N02	On the mechanistic value of the dehydrohalogenation reaction of β -halogeno hydroxy acids catalysed by FMN-dependent hydroxy acid-oxidising enzymes: a mutational analysis with flavocytochrome b_2	Sabrina Bodevin and Florence Lederer	
N03	D-lactate dehydrogenase model: mechanism of the oxidation of mandelic acids by functionalized flavin mimics with metal ions	Hideaki Ohshiro, Shin-ichi Kondo and Yumihiko Yano	
N04	(S)-mandelate dehydrogenase from <i>Pseudomonas</i> putida: mechanistic roles of the conserved residues H274 and R277	Isabelle E. Lehoux and Bharati Mitra	
N05	On the role of Asp 180 in L-lactate monooxygenase	Stephen A. Sanders, Ute Müh, Charles H. Williams Jr. and Vincent Massey	
N06	On the mechanism of glucose oxidase	Ben J. L. Williams and Stephen E. J. Rigby	
N07	Reaction mechanism of L-lactate oxidase from Aerococcus viridans	Kazuko Yorita, Toshiyuki Watanabe, Hideo Misaki and Vincent Massey	
N08	The substrate specificity of L-mandelate dehydrogenase	Douglas J. Robertson, Graeme A. Reid and Stephen K. Chapman	
N09	The membrane-associated (S)-mandelate dehydrogenase from <i>Pseudomonas putida</i> : characterization of a highly active, soluble mutant	Yang Xu and Bharati Mitra	
Acyl-CoA Dehydrogenases			
O01	Mechanism-based inactivation of medium-chain Acyl-CoA dehydrogenase by a cytotoxic thioester: bioactivation of 5,6-dichloro-4-thia-5-hexenoyl-CoA	Jennifer F. Baker-Malcom, M. W. Anders and Colin Thorpe	
O02	Synthesis and activity of substrate analogs for glutaryl-CoA dehydrogenase	Shannon L. McKinney, Carrie L. Donley, Gregory K. Sewall, Patricia L. Kultgen and Colleen M. Byron	
O03	Difference raman studies of hexadienoyl-CoA bound to medium chain acyl CoA dehydrogenase	Alasdair F. Bell, Jiaquan Wu, Kim M. Sabaj, Avery W. Stephens, Marian T. Stankovich and Peter J. Tonge	

O04	Redox potential measurements of short chain acyl- CoA dehydrogenase (SCAD) active site mutants	Jackson D. Pellett, Donald F. Becker, James A. Fuchs and Marian T. Stankovich
O05	Interactions of rat acyl-CoA oxidase with substrate analogs used as active-site probes	Haruhiko Tamaoki, Chiaki Setoyama, Kyosuke Sato, Yasuzo Nishina, Kiyoshi Shiga and Retsu Miura
O06	Biochemical characteristics of recombinant human isovaleryl-CoA dehydrogenase pre-treated with ethylenediaminetetraacetate	Al-Walid A. Mohsen and Jerry Vockley
O07	Probing the mechanism of medium chain acyl-CoA dehydrogenase (MCAD) using spectrally active alternative-substrates and products	Teresa R. Lamm and Marian Stankovich
O08	Substrate chain length specificity of acyl-CoA dehydrogenases: studies on different mutants	Burkhard Küchler, Andy Nandy, Abdel Ghany and Sandro Ghisla
O09	Probing the active site of the medium chain acyl-CoA dehydrogenase: 4-OH-cinnamoyl-CoA as a sensitive probe of polarization and ionization	Irina Rudik, Alasdair Bell, Peter Tonge and Colin Thorpe
O10	Substrate polarization of medium chain acyl-CoA dehydrogenase (MCAD)	Avery Stephens, Kim M. Sabaj, Peter J. Tonge and Marian T. Stankovich