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KRIT1 and Reactive Oxigen Species: a novel molecular pathway involved in Cerebral Cavernous Malformations.

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(Article begins on next page)



Discuss the impact of the latest research, concepts and applications of free radicals and antioxidants.

SATELLITE MEETINGS WEDNESDAY, 5 SEPTEMBER 2012			
Regi	HNE Club Satellite Meeting stration: Sherfield Building Concourse Level 1 Meeting Room: Huxley 308		
From 07:00	Registration for HNE Club Satellite Meeting		
08:30 - 08:45	Opening Address - Prof. Peter Eckl (HNE Club Chairman), University of Salzburg, Austria and Dr Corinne M. Spickett, Aston University, UK		
08:45 - 09:15	Session One - Advanced Analytical Strategies for Lipid Oxidation Products Chairs – Dr Corinne M. Spickett, Aston University, UK		
	and Prof. Tilman Grune, University of Jena, Germany Keynote Lecture One - Post-translational Modifications in Disease - Harry Ischiropoulos, SFRBM President, University of Pennsylvania, USA		
09:15 - 09:30	HNE 1 - Novel approach to identify reactive carbonyls derived from proteins and lipids – Maria Fedorova, University of Leipzig, Germany		
09:30 - 09:45	HNE 2 - Isoprostanes and Neuroprostanes, Metabolites of omega-6 and omega-3 PUFAs: Not only Biomarkers of Lipid Peroxidation – Thierry Durand, UMR CNRS 5247 (IBMM), France		
09:45 – 10:00	HNE 3 - Molecular characterization of HDL lipid peroxidation in metabolic syndrome – John Oates, Vanderbilt University, USA	Genetics an Regis	d Epigenetics of Fraility and Ageing Satellite Meeting 10:30 – 13:00 stration: Sherfield Building Concourse Level 1 Meeting Room: Huxley 311
10:00 - 10:30	Refreshment Break – Huxley 344	10:00 - 10:30	Registration for Genetics and Epigenetics of Fraility and Ageing Satellite Meeting
10:30 - 11:00	Session Two - Free Radicals and Aldehydes Chairs - Prof. Henry Forman, University of Southern California, USA, and Prof. Giuseppe Poli, University of Torino, Italy	10:30 - 10:45	Introduction Chairs – Prof. Leocadio Rodríguez Mañas, Hospital Universitario de Getafe, Madrid, Spain and Prof. Howard Bergman, McGill University, Quebec, Canada
	Keynote Lecture Two - Modification of Proteins by Lipid Peroxidation Products - Dennis Petersen, University of Colorado, USA	10:45 – 11:15	The prevalence of frailty syndrome in an older population from Spain: the Toledo study for healthy ageing - Leocadio Rodríguez Mañas, Hospital Universitario de Getafe, Spain
11:00 - 11:15	HNE 4 - The effect of HNE modification on the structure and function of the neuronal protein UCH-L: links to neurodegenerative disease – Sophie Jackson, Cambridge University, UK	11:15 – 11:45	Searching for a Relevant Clinical and Research Concept - Howard Bergman, McGill University, Canada
11:15 - 11:30	HNE 5 - Doxorubicin-induced HNE adduction to ApoA1 in plasma leads to elevated brain-resident TNF-alpha with consequent oxidative stress, mitochondrial dysfunction, and neuronal death: Prevention by MESNA and implications for chemotherapeutic induced cognitive dysfunction ("chemobrain") – D. Allan Butterfield (TBC), University of Kentucky, USA	11:45 – 12:15	The biological basis of frailty and late-life vulnerability – Jeremy D Walston, John Hopkins University School of Medicine, USA
11:30 - 11:45	HNE 6 - A high fructose diet induces protein glycoxidation and HNE protein modifications in rats – Luca Cannizzaro, University of Milan, Italy	12:15 - 12:45	A transgenic approach to understanding age-related loss of muscle mass and function - Anne McArdle, University of Liverpool
11:45 - 13:15	HNE Delegates Lunch and Poster Session – Huxley 344	12:45 - 13:00	Closing Remarks – Lunch is not provided

13:15 - 13:45 13:45 - 14:00 14:00 - 14:15	Session Three - Lipid Peroxida Messengers in Signal Transdu Chairs - Prof. Koji Uchida, Nag and Prof. Neven Zarkovic, Rud Croatia Keynote Lecture Three - Lipid and Redox Signaling - Henry F Southern California, USA HNE 7 - Nrf2/ARE signaling pa factor in mediating cell death neoplastic Apc-mutated color hydroxynonenal (HNE) expose INRA Toulouse, France HNE 8 -Modification of	ation Products as action oya University, Ja jer Boskovic Inst Peroxidation Pre- forman, Universite athway could be resistance in pre- nocytes upon 4- ure – Sabine Dall EU COST (e- eau, CM1001 A	12:00 – 14:00 CTION Satellite M	FRR Editoria Room: SALO	al Board Meeting C 1 Writer's Satelli	g (Invitation only) te Meeting - How to
	phosphatidylethanolamines mediates pro-inflammatory effects of lipid aldehydes – S.S. Davies, Vanderbilt University, USA	14:30 – 17:30 Registration: Sherfield Building Concourse Level 1 Room: Huxley 311		Publish Resear great papers in 1 Ro	ch: Easy tips for writing high impact journals (4:30 – 16:30 hom: RSMG01		
14:15 - 14:45	Refreshment Break	14:00 - 14:30	Registra ACTION	tion for EU COST	CM1001	14:00 - 14:30	Registration for Writer's Satellite Meeting
14:45 - 15:15 15:15 - 15:30	Keynote Lecture Four- Signalling Properties of 4- Hydroxyalkenals formed by Lipid Peroxidation in Diabetes - Shlomo Sasson, Hebrew University of Jerusalem, Israel HNE 9 -Interaction between oxidized lipids and amyloid- β in amplifying neuronal damage in Alzheimer disease – Paola Gamba, University of Torino, Italy	14:30 - 14:45 14:45 - 15:15	 ACTION Satellite Meeting 14:45 Introduction Protein Oxidation and Modification Chairs – Prof. Tilman Grune, University of Jena, Germany and Prof. Caroline Baron, Technical University of Denmark 15:15 Molecular aspects on the selectivity and consequences of protein tyrosine nitration - Rafael Radi, Universidad de la República, Uruguay 		14:30 – 16:30 This useful wor Newman (Elsev Hammelsoe (W Getting publish journal is a tou, researchers. Th an unparallel ir process, giving to write resear the peer review academic publi Aimed at resea more about get discover tips or	kshop is led by Anthony vier) and Pernille /iley- Blackwell) ing in a high impact gh job for junior is workshop will give you asight into the publication you valuable tips in how ch papers, understanding v process and how shing works. rchers looking to find out tting published or to n writing better papers.	
15:30 - 16:00	Session Four – Hermann Esterbauer Award Lecture Chair - Prof. Peter Eckl, University of Salzburg, Austria Puzzles, patterns and LDL: a mass spectrometrist's view – Ana Reis, Aston University, UK	15:15 – 15:45	N-linked oligosaccharides of glycoproteins are altered during aging and are possible regulators of the somatotropic axis- Valerie Van Hooren, University of Gent, Belgium		16:30 - 17:30	Elsevier Publishing Forum (invitation only)	
16:00 - 17:00	HNE Delegates Drinks, Poster Presentations and Awards	15:45 - 16:15	15 Protein oxidation and proteomics – challenges and pitfalls - Adelina Rogowska-Wrzesinska, University of Southern Denmark				
		16:15 – 16:45 Protein modification and MS- detection - Pedro Domingues, Universidade de Aveiro Santiago, Portugal					
		16:45 – 17:15	Evaluati on prote Baron, T Denmar	on of selected an ein oxidation - Ca echnical Universit k	tioxidants roline ty of		
		17:15 - 17:30	Closing	Remarks			

SFRRI MEETING			
Thursday, 6 Sentember 2012			
	SEPRI Conference Registration Onenc		
07:00	Welcome Address (Great Hall)		
08:30 - 08:55	Prof. Ciovanni Mann. Socretany Conoral SEDR International Moo	ting Chairman King's College London LIK	
08.55 00.00	Introduction to SEBBI Trover Slater Lecture (Great Hall)	ting chairman, king s college London, ok	
08:55 - 09:00	Prof. Malcolm Jackson, President SEPP International University	of Livernool LIK	
00.00 00.20	SEPPI Trover Slater Lecture (Great Hall)		
09.00-09.50	Srkki frevor Slater Lecture (Great Hall) Ovidente end Antiovidente in Dielegy A Historical Demonstrive		
	Drof Lester Dacker, University of Southern California, USA		
09.40 - 12.05	Symposium 1 - Translating the Powerbouse: Mitochondrial	Symposium 2 - Phytochemicals (Micronutrients) in Redox	
05.40 12.05	Redox Signaling – snonsored hv:	Signaling- sponsored by:	
	Biochemical Society		
	Advancing Molecular Bioscience	Mars Incorporated	
	Room: Great Hall	Rooms: Huxley 308 and via video link to Huxley 311	
09:40 - 09:45	Introduction	Introduction	
	Chairs – Dr. Michael Murphy, MRC Mitochondrial Biology Unit,	Chairs – Prof. Cesar Fraga, University of Buenos Aires,	
	UK and Prof. Victor Darley-Usmar, University of Alabama, USA	Argentina and Prof. Helmut Sies, Düsseldorf, Germany	
09:45 - 10:10	Beyond Retrograde and Anterograde Signaling: Mitochondrial	Redox modulation of pro-inflammatory and anti-	
	- Nuclear Interactions as a means for Evolutionary Adaptation	inflammatory signaling by chemopreventive phytochemicals –	
	and Contemporary Disease - Scott Ballinger, University of	Young-Joon Surh, Seoul National University, Republic of Korea	
	Alabama, USA		
10:10 - 10:35	Mitochondrial reactive oxygen species increase platelet	Dietary flavonoids: Role of (-)-epicatechin and related	
	activation in Sickle Cell disease - Sruti Shiva, University of	procyanidins in cell signaling - Patricia Oteiza, University of	
	Pittsburgh, USA	California, Davis, USA	
10:35 - 11:05	Refreshment Break		
11:05 - 11:30	Mitochondrial energy metabolism in brain aging and	Nitric oxide regulation by polyphenols: from calcium	
	neurodegeneration - Enrique Cadenas, University of Southern	homeostasis to diabetes and heart failure - Franciso Villarreal,	
	California, Los Angeles, USA	UCSD School of Medicine, USA	
11:30 – 11:55	Neuroprotection by targeting antioxidant lglutamylcysteine	The impact of fruit flavonoids on memory and cognition -	
	to mitochondria - Juan P Bolaños, Universidad de Salamanca,	Jeremy Spencer, University of Reading, UK	
	Spain		
11:55 - 12:05	Closing comments for Symposium 1	Closing comments for Symposium 2	
12:05 - 13:05	Lunch with Poster Presentations	SFRR-Europe Committee Meeting (SALC 1)	
42.05 45.00	Room: Great Hall	Rooms: Huxley 308 and via video link to Huxley 311	
13:05 - 15:00	Symposium 3 - Translating the Powerhouse: Mitochondrial	Symposium 4 - Insulin Resistance and Redox-Modulated	
	Inerapeutics – sponsored by:	Signaling – sponsored by:	
	Seahorse <i>Bioscience</i>	00000	
	6	OLAGEN	
13:05 - 13:10	Introduction	Introduction	
	Chairs – Sruti Shiva, University of Pittsburgh, USA and Prof.	Chairs – Prof. Giuseppe Poli, University of Torino, Italy and	
	Juan P Bolaños, Universidad de Salamanca, Spain	Prof. Juan Sastre, University of Valencia, Spain	
13:10 - 13:35	Mitochondrially targeted antioxidants: a therapeutic strategy	Obesity and low-grade inflammation - Brigitte Winklhofer-	
	- Michael Murphy, MRC Mitochondrial Biology Unit, UK	Roob, Karl-Franzens Universität, Austria	
13:35 - 14:00	Mitochondrial therapeutics in alcohol dependent hepatoxicity	Lipokines and oxysterols: Novel adipose-derived lipid	
	- Victor Darley-Usmar, University of Alabama, USA	hormones linking adipose dysfunction and insulin resistance –	
		Giuseppe Murdolo, University of Perugia, Italy	
14:00 - 14:25	Mitochondrial targets for cardioprotective therapeutics	Importance of insulin resistance to vascular repair and	
	Paul S. Brookes, University of Rochester Medical Center, USA	regeneration – Mark Kearney, University of Leeds, UK	
14:25 - 14:50	Modulating the mitochondrial FOF1-ATPASE as a therapeutic	The role of oxidative stress in insulin signaling and muscle	
0 11.00	strategy for systematic autoimmunity - Gary S. Glick.	damage induced by exercise - Wataru Aoi. Kvoto Prefectural	
	University of Michigan, USA	University, Japan	
14:50 - 15:00	Closing comments for Symposium 3	Closing comments for Symposium 4	
15:00 - 15:30	Refreshment Break		

15:30 – 17:30	Signal Transduction Oral Presentations Co-Chairs: Nesrin Kartal-Ozer (Turkey) Helen Griffiths (UK)	Oxidative Stress in Animals and Plants Oral Presentations Co-Chairs: Grezgorz Bartosz (Poland) Richard Siow (UK)	Antioxidants, Nutrition and Novel Therapies Oral Presentations Co-Chairs: Leopold Flohe (Germany) Roland Stocker (Australia)
15:30 - 15:45	Room: Great Hall O1 Oxidative inactivation of the thioredoxin peroxidase activity of a peroxiredoxin is important for thioredoxin-mediated repair of oxidised proteins and cell survival A.M. Day*, J.D. Brown, S.R. Taylor, I.D. Band, B.A. Morgan, F.A. Veal	Room: Clore TheatreO2 Disulfide stress as a novel type of oxidative stress in acute inflammation M.L. Moreno*1, J. Escobar1, A. Gil1, A. Izquierdo-Álvarez2, A. Martínez-Ruíz2, J. Sastre1, ¹ University of Valencia, Spain, ² Hospital de la Princesa, Spain	Room: Huxley 308 O3 Acetylsalicylic acid induced oxidative modification of ZO-1 reduces the tightness of small intestinal epithelial cell O. Handa*, Y. Naito, A. Fukui, Y. Qin, T. Takagi, T. Yoshikawa, <i>Kyoto Prefectural</i> University of Medicine Japan
15:45 – 16:00	Newcastle University, UK O4 Hyperoxia regulates the degradation of the circadian protein Rev-Erba: implications for cytoprotection M.D. Hinson ² , C. Biswas ¹ , P. La ² , G. Yang ² , P.A. Dennery ^{*1,2} , ¹ University of Pennsylvania, USA, ² Children's Hospital of Philadelphia, USA	O5 Monitoring dynamic compartment- specific changes of glutathione redox state using redox-sensitive YFP sensors A. Banach-Latapy ^{*1,2} , M. Dardalhon ^{1,2} , T. He ^{1,2} , L. Vernis ^{1,2} , R. Chanet ^{1,2} , M.E. Huang ^{1,2} , ¹ CNRS, France, ² Centre Universitaire, France	O6 The endogenous radical scavenger A1M binds to Complex I and protects mitochondrial structure and function; an novel cellular protective mechanism M.G. Olsson ^{*1} , L.W. Rosenlöf ¹ , H. Kotarsky ¹ , M. Mörgelin ¹ , V. Fellman ¹ ^{,2} , B. Åkerström ¹ , ¹ Lund University, Sweden, ² University of Helsinki, Finland
16:00 – 16:15	O7 Understanding the role of Nrf2 signalling in the cellular defence against iron toxicity: Nrf2 protects against dietary iron-induced liver injury S. Silva-Gomes, A.G. Santos, C. Caldas, J.V. Neves, P.N. Rodrigues, T.L. Duarte*, Institute for Molecular and Cell Biology, Portugal	08 Redox regulation in the daily acclimation of chloroplasts to light H. Peled-Zehavi*, I. Dangoor, A. Danon, <i>The Weizmann Institute of Science, Israel</i>	O9 Characterising the effect of novel slow-release H2S donors on pro- inflammatory enzyme activity in human cartilage cells B. Fox*, T. Holland, A. Perry, M.E. Wood, M. Whiteman, <i>University of Exeter, UK</i>
16:15 – 16:30	O10 Nrf2 activation remarkably improves exercise endurance capacity in mice O. Sechang* ¹ , E.W. Warabi ¹ , M.Y. Yamamoto ² , K.T. Tanaka ¹ , J.S. Shoda ¹ , ¹ University of Tsukuba, Japan, ² University of Tohoku, Japan	O11 Peroxisome Proliferator - Activated receptor-α a Key Modulator in Oxidative Stress and Impaired Mitochondrial Function in a Mouse Model of DDC Induced Hepatotoxicity A.P. Nikam*, J. Patankar, E. Schöck, K. Kashofer, K. Zatloukal, P.M. Abuja, Medical University of Graz, Austria	O12 Quercetin Attenuates Aluminum- Induced Apoptosis In Rat Hippocampus, By Preventing Cytochrome c Translocation, Bcl-2 Decrease, Bax Elevation, Caspase-3 And p53 Activation D.R. Sharma* ¹ , A. Sunkaria ¹ , D. Verma ¹ , K.D. Gill ¹ , ¹ Post Graduate Institute of Medical Education and Research, India, ² Post Graduate Institute of Medical Education and Research, India
16:30 - 16:45	O13 Control of ARE-linked gene expression by cytoplasm-nucleus translocational oscillations of Nrf2 M. Xue, H. Momiji, N. Rabbani, G. Barker, D.A. Rand, P.J. Thornalley*, University of Warwick, UK	O14 Higher oxidative stress in human dental pulp stem cells cultured at 21% O2 compared to 5% O2 M. El Alami* ¹ , J.A. Viña ¹ , K.M. Abdelaziz ¹ , V. Bonet-Costa ¹ , R. López Grueso ¹ , G. Olaso ¹ , M. Inglés ¹ , M. Dromant ¹ , R. Edo ¹ , C. Borras ¹ , J. Gambini ¹ , R.C. Siow ² , S.J. Chapple ² , G.E. Mann ² , M. Peñarrocha ¹ , J. Viña ¹ , ¹ Universidad de Valencia, Spain, ² King's College London, UK	O15 (-)-Epicatechin increases systemic Nrf2-dependent response and vascular function in mice M.M. Cortese-Krott* ¹ , T. Krenz ¹ , A. Rodriguez-Mateos ² , F. Oberle ¹ , S. Sivarajah ¹ , M. Kelm ¹ , ¹ Heinrich Heine University, Germany, ² University of Reading, UK
16:45 – 17:00	O16 A conserved prokaryotic region of GCN5L1 is required for mitochondrial acetyltransferase function. I. Scott*, B.R. Webster, M.N. Sack, National Heart, Lung and Blood Institute, USA	O17 Metal ions can hitch a ride with flavonones on glucose transporters E. Vlachodimitropoulou*, P.A. Sharp, G.E. Mann, S. Pardalaki, R.J. Naftalin, <i>King's College London, UK</i>	O18 Quantification of the antioxidant depletion capacity of air pollutants I.N. Katsaiti [*] , H. Walton, F.J. Kelly, <i>King's</i> <i>College London, UK</i>
17:00 – 17:15	O19 A Role for Nox4 in the Regulation of Cardiomyocyte Proliferation in vivo A.C. Brewer*, T.V. Murray, I. Smyrnias, B. Yu, A.M. Shah, <i>King's College London</i> British Heart Foundation Centre of Research Excellence, Cardiovascular Division, London, UK	O20 Impact of ferredoxin:NADP(H) oxidoreductase on redox poise of the glutathione pool and Fenton reaction capacity of thylakoid membranes: a connection to pre-acquired acclimation in Arabidopsis T. Goss, M. Twachtmann, A. Mulkidjanian, H.J. Steinhoff, J.P. Klare*, G.T. Hanke, University of Osnabrueck, Germany	O21 Oxidative stress impaired HIF1a activation: a novel mechanism for increased vulnerability of steatotic hepatocytes to hypoxic stress S. Anavi, N. Budick Harmelin, Z. Madar, O. Tirosh*, The Hebrew University of Jerusalem, Israel

17:15 - 17:30	O22 Reactive oxygen species-mediated regulation of mitochondrial biogenesis in the yeast Saccharomyces cerevisiae. E.D. Yoboue, C. Chevtzoff, M. Rigoulet, A. Devin*, Université Bordeaux Segalen, France	O23 Cholestasis is associated with hepatic microvascular dysfunction and aberrant energy metabolism before and during ischemia-reperfusion M. Heger ^{*1,2} , J.J. Kloek ¹ , X. Marechal ³ , J. Roelofsen ¹ , R.H. Houtkooper ¹ , A.B. van Kuilenburg ¹ , ¹ University of Amsterdam, The Netherlands, ² University of Utrecht, The Netherlands, ³ Lille University Hospital, France	O24 Ionizing radiation induces mitochondrial reactive oxygen species production accompanied by upregulation of mitochondrial electron transport chain function and mitochondrial content under control of the cell cycle checkpoint T. Yamamori*, H. Yasui, M. Yamazumi, Y. Wada, H. Nakamura, O. Inanami, <i>Hokkaido University, Japan</i>	
17.00-18.00			FRBM Editors Meeting (Invitation only) (SALC 1)	
17:30 - 19:00	Drinks with Poster Presentations (Queens Tower Room & Huxley Building 344)			
19:00 - 20:00	Welcome Reception (Queens Tower Room & Huxley Building 344)			

Friday, 7 September 2012				
07:30	Conference Registration Open			
08:30 - 10:30	Symposium 5 - Caught in a Trap: Neutrop	hil Extracellular	Symposium 6 - Reac	tive Oxygen Species Revisited: Promoting
	Traps, Reactive Oxygen Species and Inflan	nmation	Lifespan by Low-dos	e Reactive Oxygen Species
	Room: Huxley 308 and via video link to Hu	ıxley 311	Rooms: Great Hall	
08:30 - 08:35	Introduction		Introduction	
	Chairs - Dr. Paul Cooper, University of Birm	lingham, UK	Chairs – Prof. Michae	el Ristow, University of Jena, Germany and
09.25 00.00	Dr. Snida Yousefi, University of Bern, Switz	erland Sidonondont innoto	Prof. Toren Finkel, N	IH, Baltimore, USA
08:35 - 09:00	immune defence - Arturo Zychlinsky, Max	S-dependent innate	increase mortality in	hence in primary or secondary prevention
	Infection Biology, Germany		Copenhagen, Denma	irk
09:00 - 09:25	The mitochondrial angle: viable granulocy	te extracellular trap	Beyond the oxidativ	e damage theory: Does hyperfunction
	production - Shida Yousefi, University of B	ern, Switzerland	cause ageing in C. el	egans? - David Gems, University College
			London, UK	
09:25 - 09:50	A Novel Rapid NET Release Mechanism w	ithout Neutrophil	Mitohormesis: non-	linear signaling responses to metabolic
00.50.40.45	Death - Paul Kubes, University of Calgary, (Canada	ROS formation - Mic	hael Ristow, University of Jena, Germany
09:50 - 10:15	Neutrophil extracellular traps in the patho	ogenesis of	Oxidants, metabolism and stem cell function - Toren Finkel,	
	Birmingham LIK	inter, oniversity of	National institutes o	r Health, USA
10.15 - 10.30	Closing comments for Symposium 5		Closing comments fo	or Symposium 6
10:30 - 11:00	Refreshment Break - Queens Tower Room	& Huxley Building 344	1	
11:00 - 13:00	Symposium 7 – Peroxiredoxins. Thioredox	ins and Glutathione	Symposium 8 - Redo	x Regulation of RNA and microRNA in
	Peroxidases		Health and Disease	
	Room: Great Hall		Rooms: Huxley 308	and via video link to Huxley 311
11:00 - 11:05	Introduction		Introduction	
	Chairs - Prof. Christine Winterbourn, Unive	rsity of Otago, New	Chairs – Dr Richard S	iow, King's College London, UK and Prof.
11.05 11.20	Zealand and Prof. Junji Yodol, Kyoto Univer	rsity, Japan	Henrik Poulsen, Univ	versity of Copenhagen, Denmark
11:05 - 11:30	Leonold Flobe Otto-von-Guericke-Universit	ität Magdehurg	Conenhagen Denma	rease - Henrik Poulsen, Oniversity of
	Germany	nut mugueburg,	coperinagen, bennie	
11:30 - 11:55	Regulation of steroidogenesis via H2O2-de	ependent, reversible	MicroRNAs regulatir	ng oxidative stress and inflammation in
	inactivation of peroxiredoxin III in mitoch	ondria - Sue Goo	obesity and atheros	clerosis - Paul Holvoet, University of
	Rhee, Ewha Womans University, Republic	of Korea	Leuven, Belgium	
11:55 – 12:20	Thiol-redox compartmentation in the euk	aryotic cell – Michel	MicroRNA Control o	f Wound Angiogenesis – Sashwati Roy,
	Toledano, Gif-sur-Vette, France		Ohio State University	/, USA
12:20 – 12:45	Thioredoxin binding protein-2 (TBP-2)/ Tx	nip/ VDUP with	Circulating microRN	As: cellular origin and biomarker potential
	Masutani, Kvoto University, Janan	activities – Hiroshi	- Manuel Mayr, King	s college London, ok
12:45 - 13:00	Closing comments for Symposium 7		Closing comments fo	pr Symposium 8
13:00 - 14:00	Lunch with Poster Presentations - Queens	Tower Room &	SFRRI Committee M	eeting (Salc 1)
	Huxley Building 344			
14:00 - 14:50	SFRR Europe Lecture (Introduced by Giova	nni Mann, King's Colle	ge London, UK)	
	Proteasome and Lon: A Saga of Sex, Drugs	s, Stress and Ageing		
	Prof. Kelvin J. A. Davies, University of South	hern California, USA		
15.00 - 17.00	Inflammation and Immunity Oral	Cancer and Ageing (Iral Presentations	Cardiovascular Metabolic &
15.00 17.00	Presentations	Co-Chairs: Daniela Ca	aporossi (Italy)	Environmental Disorders I Oral
	Co-Chairs: Yuji Naito (Japan)	Holly van Remmen (USA)	Presentations
	Phyllis Dennery (USA)			Co-Chairs: Frank Kelly (UK)
				Niki Chondrogianni (Greece)
	Room: Clore	Room: Great Hall	-	Room: Huxley 308
15:00 - 15:15	O25 Oxidative stress as a cause for	O26 The effect of re	dox	O27 Heme oxygenase 1 induction in the
	supporting evidences from genetically	interference on the	telomerase activity	ischemia-reperfusion injury in rats is
	modified mice	of normal liver cells	and hepatoma cells	associated with reduced blood-brain
	T. Konno, N. Ohtsuki, N. Kibe,	D.Y. Shi ^{*1,2} , Y.L. Sui ¹ ,	J. Wang ¹ , P.Y. I ¹ ,	barrier breakdown
	S. Tsunoda, Y. Iuchi, J. Fujii*, Yamagata	F.Z. Xie ² , S.L. LIU ² , ¹ S	Shanghai Medical	A. Alfieri ¹ , S. Srivastava ¹ , R.C.M. Siow ¹ ,
	University, Japan	College of Fudan Uni	iversity, China,	M.R. Duchen ² , P.A. Fraser ¹ , G.E. Mann ¹
		⁻ Fudan University, Cl	hina	⁺ Kings College London, UK, ⁺ University
15.15 15.20	029 Modulation of Th1 /Th17	020 Turn or milero	vironmont and	College London, UK
12:12 - 12:30	ozo wodulation of In1/IN1/ equilibrium in vitro by Indicavanthin	oxidative stress inv	vironment and	o so kriut and reactive oxygen species:
	from Opuntia Ficus Indica (I. Mill)	metabolic reprogram	nming and chemo-	a novel molecular pathway involved in
	M. Allegra ^{*1} , L. Rattazzi ² , A. Attanzio ¹ ,	resistance of prostat	te cancer cells	
	L. Tesoriere ¹ , M.A. Livrea ¹ , F.	M.L. Taddei, T. Fiascl	hi, A. Marini,	L. GOITRE, IVI. VIIIORIA-RECIO, V. Cutano, R. Canzoneri, F. Tranani, A. Morina, F.
	D'Acquisto ² , ¹ Università di Palermo,	V. Farini, S. Stinziani,	P. Chiarugi*,	n. Canzonen, c. Mapani, A. Morina, F. Retta* University of Turin Italy
	Italy, ² Queen Mary University of London,	University of Florence	e, Italy	netta , University of Turiil, Ituly

	UK			
15:30 – 15:45	O31 ROS as signalling molecule in TNF-α mediated Nrf2 activation in macrophages A. Fragoulis*, A. Greiber, C. Rosen, T. Pufe, C.J. Wruck, <i>Department of</i> <i>Anatomy and Cell Biology, Germany</i>	O32 Asbestos surface provides a niche for oxidative modification: A novel role of free radicals in carcinogenesis H. Nagai, Y. Okazaki, L. Jiang, S. Akatsuk Y. Yamashita, S. Toyokuni*, <i>Nagoya</i> <i>University, Japan</i>	O33 A dithiol/disulfide redox switch in the dehydrogenase region on Nox2 regulates the assembly of the superoxide-generating NADPH oxidase of phagocytes E. Pick, <i>Tel Aviv University, Israel</i>	
15:45 – 16:00	034 The role of phosphatidylserine externalisation and oxidation in C1q- dependent apoptotic cell clearance M.J. Smallwood* ¹ , S.A. Jewell ² , P.G. Petrov ² , C.P. Winlove ² , P. Eggleton ¹ , P.G. Winyard ¹ , ¹ Peninsula Medical School, Exeter University, UK, ² School of Physics, University of Exeter, UK	O35 Compromised antioxidant enzyme adaptation to cigarette smoke in patients with chronic obstructive pulmonary disease (COPD) R.E. Dove ^{*1} , E. Roos-Engstrand ² , A. Blomberg ² , A. Behndig ² , I.S. Mudway ¹ , ¹ King's College London, UK, ² Umeå University, Sweden	O36 The role of NOX isoforms in ischemia/reperfusion injury of different organs K. Wingler ¹ , K. Radermacher ¹ , P.W.M. Kleikers ^{*1} , S. Altenhoefer ¹ , N. Weissmann ² , H.H.H.S. Schmidt ¹ , ¹ Maastricht University, The Netherlands, ² University Giessen Lung Centre, The Netherlands	
16:00 – 16:15	O37 Sulforaphane decreases neutrophil hyperactivity by reducing intracellular oxidative stress H.K.I. Dias ¹ , M. Milward ² , M. Grant ² , I.L.C. Chapple ² , H.R. Griffiths ^{*1} , ¹ Aston University, UK, ² The University of Birmingham, UK	O38 Eccentric exercise as an oxidant stimulus for studying redox homeostasis: an aging study M.G. Nikolaidis ^{*1} , A. Kyparos ¹ , C. Spanou ¹ , V. Paschalis ² , A.A. Theodorou ³ , G.V. Grivas ¹ , ¹ Aristoth University of Thessaloniki, Greece, ² University of Thessaly, Greece, ³ European University of Cyprus, Cyprus	O39 Nox4-dependent regulation of endoplasmic reticulum stress in cardiac cells C.X. Santos*, A.C. Brewer, M. Zhang, N. Anilkumar, A.M. Ajay, <i>King's College London British Heart Foundation Centre,</i> <i>Cardiovascular Division, UK</i>	
16:15 – 16:30	O40 Peroxiredoxin-6 plays the protective role against intestinal inflammation T.T. Takagi*, Y.N. Naito, T.T. Tsuji, O.H. Handa, H.I. Ichikawa, T.Y. Yoshikawa, <i>Kyoto Prefectural</i> University of Medicine, Japan	O41 Mitochondrial architecture, oxidar production, and redox signaling in malignant mesothelioma cells B.S. Cunniff* ¹ , K. Newick ¹ , J. Stumpff ¹ , J.A. Melendez ² , B. Kalyanaraman ³ , N. Heintz ¹ , ¹ University of Vermont, USA, ² Albany Medical College, USA, ³ Medical College of Wisconsin, USA	nt O42 Cardiac mitochondrial bioenergetics in endotoxemia V. Vanasco, N. Magnani, M.C. Cimolai, L.B. Valdez, P. Evelson, S. Alvarez*, University of Buenos Aires, Argentina	
16:30 – 16:45	O43 Mycoredoxin-1 is one of the missing links in the oxidative stress defense mechanism of <i>Mycobacterium</i> <i>tuberculosis</i> K. Van Laer ^{1,2} , L. Buts ¹ , N. Foloppe ³ , D. Vertommen ⁴ , N.A.J. Van Nuland ^{1,2} , J. Messens ^{*1,2} , ¹ VIB-Vrije Universiteit Brussel, Belgium, ² Brussels Center for Redox Biology, Belgium, ³ Karolinska Institutet, Sweden, ⁴ de Duve Instituut, Belgium	O44 Investigating the intracellular changes in ROS production and adaptive responses in muscle specific SOD1 knockout mice G.K. Sakellariou* ¹ , A. Kayani ¹ , A. Vasilaki ¹ , A. Scott ¹ , H. Van Remmen ² , S. Brooks ³ , A. McArdle ¹ , M.J. Jackson ¹ , ¹ University of Liverpool, Liverpool, UK, ² University of Texas Health Center at Sa Antonio and the Barshop Institute for Longevity and Aging Studies, San Antonio, USA, ³ University of Michigan, USA	e O45 Epigenetic alterations in skeletal muscle metabolism are associated with weight loss resistance B. Beauchamp ^{*1} , S. Ghosh ² , A. Chu ¹ , A. Blais ¹ , K. Rajamanickam ³ , E. Tsai ³ , M.E. Patti ⁴ , M.E. Harper ¹ , ¹ University of Ottawa, Canada, ² North Carolina Central University, USA, ³ Ottawa Hospital Research Institute, Canada, ⁴ Harvard Medical School, USA	
16:45 – 17:00	O46 Distribution of Fe(III) in carotid atherosclerotic plaques and its relation to vulnerability for rupture H. Gustafsson*, M. Norell, M. Hallbäck, M. Lindgren, M. Engström, H. Zachrisson, Linkoping University, Sweden	O47 Role of Nrf2 in neuroblastoma sensitivity to Bortezomib A.L. Furfaro ^{*1} , S. Piras ¹ , M. Passalacqua C. Domenicotti ¹ , M.A. Pronzato ¹ , U.M. Marinari ¹ , L. Moretta ² , N. Traverso ¹ , M. Nitti ¹ , ¹ University of Genoa, Italy, ² Giannina Gaslini Institute, Italy	O48 Histone methylation is regulated by nitric oxide J.R. Hickok, D. Vasudevan, D.D. Thomas*, University of Illinois at Chicago, USA	
17:00 - 18:30	Drinks with Poster Presentations (Queens	rinks with Poster Presentations (Queens Tower Room & SFRR-Europe AGM (17:00 – 18:00) Great Hall		
18:30 – 19:30	Huxley Building 344) IUBMB Jubilee Lecture (Introduced by Jose Vina, Universidad de Valencia, Spain) Nutrient Sensing Pathways and Ageing Prof. Dame Linda Partridge, FRS, University College London, UK and Max Planck Institut, Köln, Germany Room: Great Hall			

Saturday, 8 September 2012				
07:30	Conference Registration Open			
08:30 - 10:30	Symposium 9 - Selenium, Selenoproteins a	and	Symposium 10 - Rea	ctive Nitrogen Species and Reactive
	Type 2 Diabetes: An Unexpected Link		Oxygen Species in C	ardiac Myocyte Signal Transduction
	Room: Great Hall `		Room: Clore	
08:30 - 08:35	Introduction		Introduction	
	Chairs – Prof. Regina Brigelius-Flohe, Germ	an Institute of	Chairs – Prof. Thoma	s Michel, Harvard Medical Hospital,
	Human Nutrition, Germany and Dr. Holger	Steinbrenner,	Boston, USA and Pro	f. Ajay Shah, King s College London, UK
08.35 00.00	Enidemiology of colonium and type 2 diab	otos Margarat	Hudrogon norovido	and differential activation of nitric evide
08.55 - 09.00	Bayman University of Surrey LIK	eles - Margaret	synthases in cardiac	myocytes - Thomas Michel Harvard
			Medical Hospital, US	A
09:00 - 09:25	Selenium and diabetes - evidence from an	imal studies -	In vivo dissection of	redox-regulated protein kinase activation
	Xingen Lei, Cornell University, USA		in the heart - Philip I	Eaton, St Thomas' Hospital London, UK
09:25 - 09:50	Interference of selenium with the carbohy	drate metabolism -	Stretch-induced Nov	2-dependent signal transduction in
	Holger Steinbrenner, University of Düsseldorf, Germany		muscle – Chris Ward	, University of Maryland, Baltimore, USA
09:50 - 10:15	Endoplasmic reticulum-localized selenopro	oteins in insulin	NADPH oxidase-dep	endent regulation of cardiac stress
	resistance - vadim Gladysnev, Brignam & v	vomen's Hospital,	responses - Ajay Sha	n, King's College London, UK
10.15 - 10.30	Closing comments for Symposium 9		Closing comments fo	pr Symposium 10
$10.19 \ 10.90$	Refreshment Break - Queens Tower Room	& Huxley Building 34		symposium to
11:00 - 13:00	Symposium 11 - Protein Oxidation, Proteo	lysis, and Ageing	Symposium 12 – The	e conversion of Redox Signals into Highly
			Specific Zinc Ion Sign	nals
	Room: Great Hall `		Room: Clore	
11:00 - 11:05	Introduction		Introduction	
	Chairs – Prof. Kelvin J. A. Davies, University	of Southern	Chairs – Prof. Wolfga	ang Maret, King's College London, UK and
	California, Los Angeles, USA and Prof. Mich	nael Davies, The	Prof. Christer Hogstr	and, King's College London, UK
11.05 - 11.20	Rearct Research Institute, Australia	ibility Michael	Podov/zinc signal tr	ansoluction in ischomic proconditioning
11.05 - 11.50	Davies The Heart Research Institute Austr	alia	and neuronal cell de	eath - Elias Aizenman, University of
			Pittsburgh, USA	
11:30 - 11:55	Proteasomal regulation in oxidative stress	and ageing - Tilman	Nitric oxide and zinc	-mediated protein assembly in opioid
	Grune, University of Jena, Germany		receptor signaling -	Javier N. Garzon, Instituto Cajal, Spain
11:55 – 12:20	Impairment of proteasome function as a b	iomarker of cellular	Zinc ions as effector	s of environmental oxidative lung damage
	and tissular ageing – Bertrand Friguet, Uni	versité Pierre et	- James M. Samet, U	niversity of North Carolina, USA
42.20 42.45	Marie Curie, France			<u> </u>
12:20 - 12:45	Ageing and Immunoproteasome: More that	an just antigen	Redox blochemistry	of metallothioneins and protein tyrosine
	USA	sity of winnesota,	King's College Londo	n LIK
12.4E 12.00	Closing commonts for Sumposium 11		Closing commonts fo	r Sumposium 12
12.43 - 13.00	Lunch with Poster Presentations - Queens	Tower Room &	Closing comments it	
10.00 11.00	Huxley Building 344		13:00 - 14:00 SFF	R Asia Business Meeting Salc 1
14:00 - 14:50	Informa Award Lecture (Introduced by Hel	en Griffiths, University	/ of Aston, UK)	
	NADPH Oxidases as Mediators of Vascular	Physiology		
	Prof. Kathy Griendling, Emory University Sc	hool of Medicine, Atla	inta, USA	
	Room: Great Hall			
15:00 - 17:00	Neuroscience and Nitric Oxide Oral	Oxidation of Macron	nolecules Oral	Cardiovascular, Metabolic &
	Co-Chairs: Shinya Toyokuni (Janan)	Co-Chairs: Maria Fee	lorova (Germany)	Presentations
	Aldini Giancarlo (Italy)	Lin Mantell (USA)	lorova (Germany)	Co-Chairs: Alison Brewer (UK)
				Mariapaola Nitti (Italy)
	Room: Great Hall	Room: Clore		Room: Huxley 208
15:00 - 15:15	049 Tyrosine modification of b2-tubulin	050 Generation and	Accumulation of	051 Transforming growth factor-B1
15.00 15.15	and its potential nitric oxide signaling in	Cellular 5-Hydroxym	ethylcytosine by	modulates nrf2 redox signalling and
	cardiomyogenesis	redox-active quinon	es	enhances migration of human aortic
	Y.S. Park ¹ , S.K. Kang ¹ , Y.G. Kwon ⁴ ,	B-Z. Zhu, Research C	Center for Eco-	adventitial fibroblasts
	K.P. Kim ² , I. Komuro ³ , S.I. Park ^{*1} , ¹ Korea	Environmental Scien	ces, Chinese	T. Mughal*, M. Parsons, R.C. Siow,
	National Institute of Health, Republic of	Academy of Sciences	s, China	King's College London, UK
	Korea, Konkuk University, Republic of			
	University, Republic of Korea			
15:15 - 15:30	O52 Nitric oxide metabolism plays a	O53 Yeast 20S prote	asome redox forms	O54 Heme oxygenase-1 regulates
	crucial role in visual pattern memory in	generate diverse pe	ptide sets from	mitochondrial coenzyme Q and reactive
	Drosophila	same protein substr	ates	oxygen species formation – possible
	C. CHEN ^{\pm1} , L. LIU ² , Y. LIU ² , Q.L. HOU ¹ ,	M. Demasi ^{*1} , V. Sim	oes^{1} , G.M. Silva ^{1,2} ,	implications for the metabolic
	H.Q. JIANG ⁻ , X. ZHANG ⁺ , ⁻ National	F.C. Gozzo [°] , L.E.S. Ne	etto ⁻ , ⁻ Instituto	reprogramming in response to hypoxia
	² Chinese Academy of Sciences, China,	Butantan, Brazil, US Brazil	r, σιαζιι, υινιζΑΙVIP,	L.J. Commissin, K.H. Chan, G.J. Wagnzal,
	Chinese reduciny of Jerences, China	5. 62.11		J. Ni ¹ , R.G. Midwinter ¹ , H.A. Hamid ¹ .
				D.L. Newington ¹ , Y.T. Lam ² , D.E. James ³ ,

			C.F. Clarke ⁴ , M.K.C. Ng ² , R. Stocker ^{*1} , ¹ University of Sydney, Australia, ² The Heart Research Institute, Australia,	
			³ Garvan Institute of Medical Research, Australia ⁴ University of California, USA	
15:30 - 15:45	O55 Antioxidant defense systems in the human parasite <i>Giardia intestinalis</i>	O56 Decreased expression and increased carbonylation of Haptoglobin	O57 Mechanical stretch-mediated HO-1 upregulation in human mesangial cells:	
	D. Mastronicola ^{*1} , F. Testa ² , E. Forte ² ,	in plasma from MCI and AD subjects:	a role for Nrf2 in redox regulation?	
	M. Falabella ² , P. Sarti ¹ , ² , A. Giuffrè ¹ ,	role of extracellular chaperones in	L. Gnudi [*] , A. Hayward, S. Duggan, K. Price, J. Pap, C. Dessant, R.C.M. Siow	
	Pathology, Italy, ² Sapienza University of	A. Cocciolo ¹ , P. Mecocci ² ,	G.E. Mann, King's College London, UK	
	Rome, Italy	D.A. Butterfield ³ ,		
		M. Perluigi* [*] , ⁻ Sapienza University of Rome, Italy, ² University of Peruaia, Italy,		
		³ University of Kentucky, USA		
15:45 – 16:00	O58 Pepsin is nitrated in the stomach	O59 Fluorescence Detection Method for	060 Diabetes can diminish benefits of	
	acquiring anti-ulcerogenic activity: a novel nitrating pathway involving	Lipid-derived Radical K. Yamada*, F. Mito, Y. Matsuoka.	tree radical scavenging potential of polyphenols in blood	
	dietary nitrite, gut microbiota and	T. Yamasaki, K. Kitagawa, M. Yamato,	J.B. Xiao ^{*1} , Y.X. Xie ² , H. Cao ² , X.Q. Chen ² ,	
	gastric proteins	Kyushu University, Japan	¹ Shanghai Normal University, China,	
	B.S. Rocha [*] , B. Gago, R.M. Barbosa, I.O. Lundberg ² , R. Radi ³ , I. Laraniinha ¹ ,		Central South University, China	
	¹ University of Coimbra, Portugal,			
	² Karolinska Institute, Sweden,			
16:00 - 16:15	Oniversidad de la Republica, Orugudy O61 A carbon monoxide-sensitive	O62 Capturing and quantifying	O63 A novel role of myeloperoxidase in	
	hydrogen sulfide cascade mediates	reversibly oxidised cysteines in the	the induction of endoplasmic reticulum	
	acute hypoxic regulation of the cerebral	myocardium by thiol-disulfide exchange	(ER) stress $(1 - 5)^{1}$	
	M. Kajimura* ^{1,2} , T. Morikawa ¹ ,	M. Puckeridge, M.Y. White,	T.J. Barrett ^{1,2} , C.A. Bursill ^{1,2} , C.L.	
	Y. Yukutake ¹ , M. Suematsu ^{1,2} , ¹ Keio	S.J. Cordwell, The University of Sydney,	Hawkins ^{*1,2} , ¹ Heart Research Institute,	
16.15 16.20	University, Japan, ² JST, Japan	Australia	Australia, ² University of Sydney, Australia	
10.15 - 10.50	drug target for atorvastatin in a dog	autoantibodies against oxidatively	stress response after explosive-type of	
	preclinical model of Alzheimer disease	modified autoantigens in human	moderate resistance training in the	
	E. Barone ^{***} , E. Head ² , D.A. Butterfield ² ¹ Swiss Federal Institute of	autoimmune diseases	elderly R M Beltran Valls ¹ L Dimauro ¹	
	Technology, Switzerland, ² University of	M. Whiteman ¹ , P. Eggleton ¹ , ¹ University	A. Brunelli ¹ , P. Caserotti ² , A. Parisi ¹ ,	
	Kentucky, USA	of Exeter, UK, ² Queen Mary University of	D. Caporossi ^{*1} , ¹ University of Rome	
		London, UK, "University of Oxford, UK	"Foro Italico", Italy, ⁻ University of Southern Denmark, Denmark	
16:30 - 16:45	O67 Dynamic and complex redox-	O68 Effect of annatto-tocotrienols	O69 Increased organ levels of	
	dependent modifications of DJ-1 in	supplementation on the Development	angiotensin II in ren2 rats leads to the	
	stress	of Mammary Tumors in HER-2/neu Transgenic Mice	formation of reactive oxygen species and DNA damage	
	M. Fernandez-Caggiano ^{*1} , E. Schroder ² ,	E. Pierpaoli, V. Viola, A. Barucca,	G. Fazeli [*] , H. Stopper, S. Weissenberger,	
	P. Eaton ² , ¹ INIBIC. CHU A Coruña, Spain,	F. Orlando, F. Galli, M. Provinciali,	C. Makiol, A. Heidland, N. Schupp,	
	Division. St Thomas' Hospital, UK	S. Legnalon ⁺ , University of Perugia, Italy	oniversity of vvurzourg, Germany	
16:45 - 17:00	O70 Nitric oxide dynamics and	071 Soluble mediators from activated	072 Dietary quercetin improves	
	dependent neurovascular coupling in a triple transgenic mouse model of	leukocytes cause oxidative DNA damage	endothelial function and protects	
	Alzheimer disease	N. Schupp ^{*1} , Z. Schmidt ¹ , N. Queisser ¹ ,	knockout mice fed a high-fat diet	
	C.F. Lourenço ^{*1} , R.M. Barbosa ^{1,2} ,	S. Sela ² , ¹ University of Würzburg,	Y. Shen ^{1,3} , N.C. Ward ¹ , J.M. Hodgson ¹ ,	
	E. Cadenas ² , R. Radi ⁴ , J. Laranjinha ^{1,2} ,	Germany, ⁻ Western Galilee Hospital, Israel	Y. Wang ² , R. Stocker ² , K.D. Croft ^{*1} , ¹ University of Western Australia	
	Biology, Portugal, ² University of Coimbra,		Australia, ² University of Sydney,	
	Portugal, ³ University of Southern		Australia, ³ Nanjing University, Australia	
	California, Los Angeles, USA,"Universidad de la Republica, Uruguay			
17:00 - 18:30	Drinks with Poster Presentations (Queens	Tower Room & SFRR	I AGM Meeting (17:00 – 18:00) Great Hall	
40.00	Huxley Building 344)			
19:30 – 23:00	Gaia Dinner(Optional event – entry by tick The Grand Connaught Rooms, 61-65 Great	et tound in delegate badge) Queen Street, London, WC2B 5DA		
	Delegates should make their own travel arrangements – nearest Underground station is Covent Garden / Holborn			

Sunday, 9 Septemb	per 2012	
07:30	Conference Registration Open	
08:15 - 08:25	Introduction to Catherine Pasquier Awards (Great Hall)	
	Prof Nesrin Kartal-Ozer (President Elect SFRR Europe) Marmara	a University, Turkey Great Hall
08:25 - 08:50	Catherine Pasquier Award Winners Lecture (Great Hall)	
	Role of reactive oxygen species in degeneration in ageing mus	scle
	Dr Aphrodite Vasilaki, University of Liverpool, UK	
08:50 - 09:15	Catherine Pasquier Award Winners Lecture (Great Hall)	
	Free Radical biology for medicine: learning from liver disease	
	Dr Gaetano Serviddio, Università di Foggia, Italy	
09:25 - 11:25	Symposium 13 - Free Radicals and Exercise: Where Next	Symposium 14 - Inflammation and Neurodegeneration.
	After Antioxidants	Sponsored by:
		Janssen
		PHARMACEUTICAL COMPANIES
	Room: Great Hall	Room: Huxley 308 and via video link to Huxley 311
09.25 - 09.30	Introduction	Introduction
03.23 03.30	Chairs - Prof. Malcolm Jackson, University of Liverpool, UK	Chairs – Prof. Catarina Oliveira, University of Coimbra.
	and Prof. Michael Reid. University of Kentucky. USA	Portugal and Prof. Guy Brown, University of Cambridge, UK
09:30 - 09:55	The roles of reactive oxygen and nitrogen species in muscle	Prognostic biomarkers of oxidative stress in Alzheimer's
	fatigue - Hakan Westerblad, Karolinska Institut, Sweden	Disease - Allan Butterfield, University of Kentucky, USA
09:55 - 10:20	Adaptations in mitochondria to exercsie training; the role of	Neurovascular and metabolic coupling: diffusible bridging
	free radicals - Jose Vińa, Universidad de Valencia, Spain	supported by nitric oxide - João Laranjinha, University of
		Coimbra, Portugal
10:20 - 10:45	Inflamation and muscle dysfunction: Role of redox signaling	S-nitrosothiols in neurodegeneration - Stuart Lipton,
	- Michael Reid, University of Kentucky, Lexingtonn, USA	Sanford-Burnham Medical Research Institute, USA
10:45 - 11:10	Nitrate/nitrite supplementation, mitochondrial efficiency	Reactive oxygen and nitrogen species in inflammatory
	and exercise capacity - Eddie Weitzberg, Karolinska Institut,	neurodegeneration – Guy C. Brown, University of Cambridge,
	Sweden	UK
11:10 - 11:25	Closing comments for Symposium 13	Closing comments for Symposium 14
11:25 - 11:55	Refreshment Break – Queens Tower Room & Huxley 344	Summarium 1C Clutathianau A Dala in Dadau Cirualina
11:55 - 13:55	and Disease	Symposium 16 - Giulatnione: A Role in Redox Signaling,
		KYOWA
	Room: Great Hall	Room: Huxley 308 and via video link to Huxley 311
11:55 – 12:00	Introduction	Introduction
	Chairs – Dr. Jianhua Zhang, University of Alabama, USA and	Chairs – Prof. Federico Pallardo, Universidad de Valencia,
	Dr. Bradford Hill, University of Louisville, US	Spain and Prof. Brian Day, Denver, USA
12:00 - 12:25	Autophagic response to bioenergetic and oxidative stress -	12:00 – 12:20 Epigenetics and role of glutathione in
	Jianhua Zhang, University of Alabama, USA	redox regulation
		Federico V. Pallardó, Universidad de
		Valencia, Spain
12:25 - 12:50	Autopnagy - a guardian against neurodegeneration - David	12:20 – 12:40 Glutathione in ageing
	Rubinsztein, University of Cambridge, UK	Brian Day, University of Colorado, USA
12.50 - 12.15	Implications of autonbagy for the smooth muscle coll	12:40 – 13:00 Nuclear glutathione and the cell cucle in
12.50 - 15.15	Bradford Hill University of Louisville USA	nlants
		Christien Fover, University of Leeds LIK
13:15 - 13:40	Roles of Sequestosome1/p62 in prevention of obesity	13:00 – 13:20 Glutathione in plant biotic interactions
	hypertension and atherosclerosis - Tetsuro Ishii, University	Alain Puppo, Université Nice, France
	of Tsukuba, Japan	13:20 – 13:40 Compensatory gene expression in
		gluthathione deficient mice: implications
		for ageing and disease susceptibility
		Terrance J. Kavanagh, University of
		Washington, USA
13:40 - 13:55	Closing comments for Symposium 15	Closing comments for Symposium 16