

Oxidative Stress & Disease

Gordon Research Conference

Redox Biology in Disease and Translational Medicine

March 19-24, 2017

Renaissance Tuscany Il Ciocco

Lucca (Barga), Italy

Chairs: LaDora V. Thompson & Giuseppe Poli

Vice Chairs: Dean P. Jones & Helen R. Griffiths

Meeting Description

The theme for 2017 Oxidative Stress and Disease GRC is "Redox Biology in Disease and Translational Medicine". Its focus is on questions and approaches at the forefront of the field of redox biology with particular emphasis on cutting edge basic research with high translational potential to eliminate disease, improve quality of life and promote healthy longevity. A special effort has been made to highlight important research areas not recently emphasized at other meetings. Topics of emphasis at the 2017 meeting will include: (1) recent insights into ROS/RNS signaling and its translational potential, (2) advances in our understanding of proteostasis and mitochondrial quality in longevity, (3) the role of ROS/RNS in human health, inflammation and disease progression, and (4) initial strategies currently being applied for translation of basic redox biology research discoveries into the clinical realm.

Contributors



Meeting Program

Sunday

- 4:00 pm - 8:00 pm Arrival and Check-in
- 6:00 pm Dinner
- 7:30 pm - 7:40 pm Welcome / Introductory Comments by GRC Site Staff
- 7:40 pm - 9:30 pm **Keynote Session: The Redox Language in Medical Research**
Discussion Leader: **Helmut Sies** (Heinrich Heine University Dusseldorf, Germany)
- 7:40 pm - 7:50 pm Opening Remarks
- 7:50 pm - 8:25 pm **Rafael Radi** (University of the Republic, Uruguay)
"Interplay of Oxygen Radicals, Nitric Oxide and Redox-Active Compounds: Relevance to Human Physiology, Disease and Aging"
- 8:25 pm - 8:40 pm Discussion
- 8:40 pm - 9:15 pm **Harald Schmidt** (Maastricht University, The Netherlands)
"NOX, NOS and sGC as Therapeutic Targets Within a Cluster of Redox-Related Diseases"
- 9:15 pm - 9:30 pm Discussion

Monday

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 12:30 pm **Proteostasis, Autophagy and Longevity**
Discussion Leader: **Kelvin Davies** (University of Southern California, USA)
- 9:00 am - 9:10 am Introduction by Discussion Leader
- 9:10 am - 9:35 am **Richard Morimoto** (Northwestern University, USA)
"Proteostasis in Aging and Disease"
- 9:35 am - 9:50 am Discussion
- 9:50 am - 10:15 am **Ana Maria Cuervo** (Albert Einstein College of Medicine, USA)
"Selective Autophagy in the Fight Against Age-Related Disease"
- 10:15 am - 10:30 am Discussion
- 10:30 am - 11:00 am Coffee Break
- 11:00 am - 11:15 am Selected from Poster Abstracts: **George Rodney** (Baylor College of Medicine, USA)
"Nox2 ROS: Putting a Break on Autophagy"
- 11:15 am - 11:20 am Discussion
- 11:20 am - 11:35 am Selected from Poster Abstracts: **Wei-Xing Zong** (Rutgers University, USA)
"TRIM21 as a Negative Regulator of the p62-Keap1-Nrf2 Pathway"
- 11:35 am - 11:40 am Discussion

- 11:40 am - 11:50 am Introduction by Discussion Leader
- 11:50 am - 12:05 pm Selected from Poster Abstracts: **Mariapaola Nitti** (University of Genoa, Italy)
"Differentiation Impairs Bach1 Dependent HO-1 Activation and Increases Sensitivity to Oxidative Stress in Neuroblastoma Cells"
- 12:05 pm - 12:10 pm Discussion
- 12:10 pm - 12:25 pm Selected from Poster Abstracts: **Steen Vang Petersen** (Aarhus University, Denmark)
"Dynamics of SOD3 Secretion by Stimulated Macrophages"
- 12:25 pm - 12:30 pm Discussion
- 12:30 pm Lunch
- 1:30 pm - 4:30 pm Free Time
- 3:00 pm - 4:00 pm Power Hour
- The GRC Power Hour is an optional informal gathering open to all meeting participants. It is designed to help address the challenges women face in science and support the professional growth of women in our communities by providing an open forum for discussion and mentoring.*
- Organizers: **Grazia Isaya** (Mayo Clinic College of Medicine, USA) and **Carmen Gomez-Cabrera** (University of Valencia, Spain)
- 4:30 pm - 6:00 pm Poster Session
- 6:00 pm - 8:00 pm **Revisiting: The Cross-Talk Between ROS Signaling and Cell Homeostasis**
- Discussion Leader: **Deborah Ferrington** (University of Minnesota, USA)
- 6:00 pm - 6:10 pm Introduction by Discussion Leader
- 6:10 pm - 6:35 pm **Gerald Shadel** (Yale School of Medicine, USA)
"Mitochondrial Stress Signaling in Disease and Immunity"
- 6:35 pm - 6:50 pm Discussion
- 6:50 pm - 7:15 pm **Noriko Noguchi** (Doshisha University, Japan)
"Regulation of Cell Signaling by Lipid Oxidation Products and Antioxidants"
- 7:15 pm - 7:30 pm Discussion
- 7:30 pm - 7:45 pm **Tilman Grune** (German Institute of Human Nutrition, Germany)
"Redox Regulation of Proteostasis"
- 7:45 pm - 7:50 pm Discussion
- 7:50 pm - 8:00 pm General Discussion
- 8:00 pm Dinner

Tuesday

- 7:30 am - 8:30 am Breakfast
- 8:30 am Group Photo
- 9:00 am - 12:30 pm **ROS/RNS in Vascular Aging**
- Discussion Leader: **Giovanni Mann** (King's College London, United Kingdom)
- 9:00 am - 9:10 am Introduction by Discussion Leader
- 9:10 am - 9:35 am **Anne Negre-Salvayre** (INSERM, France)
"Angiogenesis and Oxidized Lipids in Atherosclerosis"
- 9:35 am - 9:50 am Discussion
- 9:50 am - 10:15 am **Anna Csiszar** (University of Oklahoma Health Sciences Center, USA)
"Vascular Aging in the Brain"
- 10:15 am - 10:30 am Discussion
- 10:30 am - 11:00 am Coffee Break
- 11:00 am - 11:25 am **Francisco Laurindo** (Heart Institute (InCor), University of Sao Paulo School of Medicine, Brazil)
"Intra and Extracellular Thiol Isomerases in Disease-Associated Vascular Remodeling"
- 11:25 am - 11:40 am Discussion
- 11:40 am - 11:55 am Selected from Poster Abstracts: **Susan Scheibe** (University of Giessen, Germany)
"The Role of Mitochondrial Reactive Oxygen Species in the Response of the Pulmonary Vasculature to Hypoxia and Right Heart Remodeling"
- 11:55 am - 12:00 pm Discussion
- 12:00 pm - 12:15 pm Selected from Poster Abstracts: **Judit Marsillach Lopez** (University of Washington, USA)
"Paraoxonase-1 Inactivation by Oxidative Stress in Cardiovascular Disease"
- 12:15 pm - 12:20 pm Discussion
- 12:20 pm - 12:30 pm General Discussion
- 12:30 pm Lunch
- 1:30 pm - 4:30 pm Free Time
- 4:30 pm - 6:00 pm Poster Session
- 6:00 pm - 8:00 pm **Mitochondrial Quality and Control in the Diseased Brain**
- Discussion Leader: **Enrique Cadenas** (University of Southern California, USA)
- 6:00 pm - 6:10 pm Introduction by Discussion Leader
- 6:10 pm - 6:35 pm **Marzia Perluigi** (Sapienza University of Rome, Italy)
"Decoding Alzheimer-Like Neurodegeneration from Mitochondrial Defects"
- 6:35 pm - 6:50 pm Discussion

6:50 pm - 7:15 pm	Grazia Isaya (Mayo Clinic College of Medicine, USA) "Mitochondrial Fe-S Cluster Dysfunction in Neurodegenerative Disease"
7:15 pm - 7:30 pm	Discussion
7:30 pm - 7:45 pm	Selected from Poster Abstracts: Christian Gonzalez-Billault (University of Chile, Chile) "Novel Mechanisms Involving Redox Biology Are Essential to Support Axonal Growth"
7:45 pm - 7:50 pm	Discussion
7:50 pm - 8:00 pm	General Discussion
8:00 pm	Dinner

Wednesday

7:30 am - 8:30 am	Breakfast
9:00 am - 12:30 pm	Emerging Challenges: Inflammation and Diseases of the Gut, Lung, Pancreas, Liver Discussion Leader: Juan Sastre (University of Valencia, Spain)
9:00 am - 9:10 am	Introduction by Discussion Leader
9:10 am - 9:35 am	Patricia Oteiza (University of California, Davis, USA) "Dietary Flavonoids in the Treatment of the Inflamed and Leaky Gut"
9:35 am - 9:50 am	Discussion
9:50 am - 10:15 am	Suzanne Cloonan (Weill Cornell Medicine, USA) "Mitochondrial Iron Metabolism in COPD"
10:15 am - 10:30 am	Discussion
10:30 am - 11:00 am	Coffee Break
11:00 am - 11:25 am	Tony Tiganis (Monash University, Australia) "ROS in Liver Disease and Type2 Diabetes"
11:25 am - 11:40 am	Discussion
11:40 am - 11:55 am	Selected from Poster Abstracts: Ross Vlahos (RMIT University, Australia) "ROS in Chronic Lung Diseases"
11:55 am - 12:00 pm	Discussion
12:00 pm - 12:15 pm	Selected from Poster Abstracts: Nesrin Ozer (Marmara University, Turkey) "Endoplasmic Reticulum Stress-Related Signaling and Lipid Metabolism in Non-Alcoholic Fatty Liver Disease"
12:15 pm - 12:20 pm	Discussion
12:20 pm - 12:30 pm	General Discussion
12:30 pm	Lunch
1:30 pm - 4:30 pm	Free Time
4:30 pm - 6:00 pm	<u>Poster Session</u>

6:00 pm - 8:00 pm	Redox Reactions in Infectious Diseases
	Discussion Leader: Carroll Cross (University of California, Davis, USA)
6:00 pm - 6:10 pm	Introduction by Discussion Leader
6:10 pm - 6:35 pm	David Lembo (University of Turin, Italy) "The Broad Antiviral Effect of Oxysterols: Molecular Aspects and Therapeutic Potential"
6:35 pm - 6:50 pm	Discussion
6:50 pm - 7:15 pm	Regina Medvedev (Paul Ehrlich Institute, Germany) "A Radical Virus Needs Radical Strategies – HCV-Induced Oxidative Stress in Viral Biology and Disease"
7:15 pm - 7:30 pm	Discussion
7:30 pm - 7:45 pm	Selected from Poster Abstracts: Rao Papineni (University of Kansas Medical Center / PACT & Health, LLC, USA) "2-Deoxyglucose and Bisphosphonate Show Common Pathways in Its Drug Repurposed Anticancer and Anti-Infection Actions"
7:45 pm - 7:50 pm	Discussion
7:50 pm - 8:00 pm	General Discussion
8:00 pm	Dinner

Thursday

7:30 am - 8:30 am	Breakfast
8:30 am - 9:00 am	<u>Business Meeting</u> <i>Nominations for the Next Vice Chair; Fill in Conference Evaluation Forms; Discuss Future Site and Scheduling Preferences; Election of the Next Vice Chair</i>
9:00 am - 12:30 pm	Redox-Orientated Biotechnology and Medicine
	Discussion Leader: Cesar Fraga (University of Buenos Aires, Argentina)
9:00 am - 9:10 am	Introduction by Discussion Leader
9:10 am - 9:35 am	Elena Batrakova (University of North Carolina at Chapel Hill, USA) "Engineering Exosomes to Deliver a Potent Redox Enzyme Catalase to the Brain"
9:35 am - 9:50 am	Discussion
9:50 am - 10:15 am	Gaetano Serviddio (University of Foggia, Italy) "Therapeutic Implications of Mitochondrial Redox Impairment in Human Disease and Aging"
10:15 am - 10:30 am	Discussion
10:30 am - 11:00 am	Coffee Break
11:00 am - 11:25 am	Giuseppe Valacchi (North Carolina State University, USA) "Modulation of Oxidative Stress Response in Neurodevelopment Disorders. The Case of the Rett Syndrome Variants: MECP2 and CDKL5"

11:25 am - 11:40 am	Discussion
11:40 am - 11:55 am	Selected from Poster Abstracts: Irundika Dias (Aston University, United Kingdom) "Targeted Lipidomic Analysis of Oxysterols in Plasma from Patients with Alzheimer's Disease"
11:55 am - 12:00 pm	Discussion
12:00 pm - 12:15 pm	Selected from Poster Abstracts: Laurent Paardekooper (Radboud Institute for Molecular Life Sciences, The Netherlands) "Lipid Peroxidation Product Ethylene Is a Real-Time Respiratory Marker for Systemic Inflammation"
12:15 pm - 12:20 pm	Discussion
12:20 pm - 12:30 pm	General Discussion
12:30 pm	Lunch
1:30 pm - 4:30 pm	Free Time
4:30 pm - 6:00 pm	<u>Poster Session</u>
6:00 pm - 8:00 pm	Cellular Mechanisms Underlying Oxidative Stress and Exercise Discussion Leader: Jose Vina (University of Valencia, Spain)
6:00 pm - 6:10 pm	Introduction by Discussion Leader
6:10 pm - 6:35 pm	Carmen Gomez-Cabrera (University of Valencia, Spain) "Modulation of ROS Levels as a Strategy to Improve Healthy Aging: The Exercise Model"
6:35 pm - 6:50 pm	Discussion
6:50 pm - 7:15 pm	Malcolm Jackson (University of Liverpool, United Kingdom) "Neuromuscular Defects as a Regulator of Oxidative Stress in Aging Skeletal Muscle"
7:15 pm - 7:30 pm	Discussion
7:30 pm - 7:45 pm	Selected from Poster Abstracts: Alex Wadley (University of Worcester, United Kingdom) "Phenotypic Assessment of Lymphocyte Thiol Reduction Following Acute Exercise: Characterisation of a Highly Reduced CD8+ T Cell Population"
7:45 pm - 7:50 pm	Discussion
7:50 pm - 8:00 pm	General Discussion
8:00 pm	Dinner

Friday

7:30 am - 8:30 am	Breakfast
9:00 am	Departure

Poster List

All posters can be displayed simultaneously throughout the conference week. Display your poster at the board # indicated below. Be available by your poster to present on the days indicated. If your name does not appear in the list, display your poster at the next available board. There is plenty of space available for additional posters.

Present on	Number	Presenting Author	Organization	Co-Authors	Poster title
Mon/Thur	1	Bauerova, Katarina	Institute of Experimental Pharmacology & Toxicology	Bauerová K., Kucharská J., Poništ S., Slovák L., Vancová O., Mihalová D., Gvozdjaková A.	Beneficial effects of coenzyme Q10, ω -3-polyunsaturated fatty acids and their mixture in adjuvant arthritis, on skeletal muscle mitochondria functions and on the levels of α -tocopherol in plasma
Mon/Thur	2	Atzori, Luigi	University of Cagliari	Tronci Laura, Caria Paola, Piras Cristina, Deiana Monica, Vanni Roberta, Atzori Luigi. Department of Biomedical Sciences, University of Cagliari, Cagliari, Italy	Correlation between different genotypes, metabolic alterations and redox state in different thyroid cancer cell lines
Mon/Thur	3	Ekim, Aslihan	TU Dresden		The Role of the <i>S. cerevisiae</i> Sco2p and Its Homologues in Antioxidant Defense Mechanism and Redox Homeostasis
Mon/Thur	4	Gonzalez-Billault, Christian	Universidad de Chile	Wilson C, Muñoz E, Henriquez DR, Palmisano I, Nunez MT, Di Giovanni S and Gonzalez-Billault C	Novel mechanisms involving redox biology are essential to support axonal growth
Mon/Thur	5	Kakimoto, Pamela	Universidade de Sao Paulo, Instituto de Quimica	Pâmela Kakimoto and Alicia Kowaltowski	Is there a role for obesity-related inflammation in mitochondrial liver metabolism?
Mon/Thur	6	Papineni, Rao	KUMC and PACT & Health		2-Deoxyglucose and bisphosphonate shows common pathways in its drug repurposed anticancer and anti-infection actions.
Mon/Thur	7	Scheibe, Susan	University of Giessen	Susan Scheibe, Oleg Pak, Azadeh Esfandiary, Mareike Gierhardt, Akylbek Sydykov, Athanasios Fysikopoulos, Matthias Hecker, Florian Kroschel, Ralph T. Schermuly, Hossein A. Ghofrani, Michael P. Murphy,	The role of mitochondrial reactive oxygen species in the response of the pulmonary vasculature to hypoxia and right heart remodeling
Mon/Thur	8	Thompson, LaDora	College of Health and Rehabilitation Sciences, Boston University	TBD	Does oxidative stress contribute to frailty?

Present on	Number	Presenting Author	Organization	Co-Authors	Poster title
Mon/Thur	9	Ungvari, Zoltan	University of Oklahoma HSC	Ungvari Z, Tarantini S, Valcarcel-Ares MN, Yabluchanskiy A, Springo Z, Fulop GA, Ashpole N, Sonntag W, Csiszar A	Cerebral microhemorrhages in aging: mechanisms and consequences
Mon/Thur	10	Valacchi, Giuseppe	North Carolina State University	Giuseppe Valacchi ¹ , Alessandra Pecorelli ¹ , Carlo Cervellati ² , Joussef Hayek ³	Modulation of oxidative stress response in neurodevelopment disorders. The case of the Rett syndrome variants: MECP2 and CDKL5.
Mon/Thur	11	van der Laan, Kiran	University Medical Center Groningen	SR Hemelaar, SR Hinterding, MV Koot, E Ellermann, FP Perona-Martinez, D Roig, S Hommelet, D Novarina, H Takahashi, M Chang, R Schirhagl.	Viability of aging yeast cells after uptake of ROS-sensing FNDs
Mon/Thur	12	Vang Petersen, Steen	Aarhus University	Lili Hu, Elias D. Zachariae, Ulrike G. Larsen	Dynamics of SOD3 secretion by stimulated macrophages
Mon/Thur	13	Wadley, Alex	University of Worcester	Alex, J. Wadley, Adrian Holliday, Sarah Aldred, Derek Peters, Allain Bueno & Steven, J. Coles	Phenotypic assessment of lymphocyte thiol reduction following acute exercise: characterisation of a highly reduced CD8+ T cell population
Mon/Thur	14	Djukic, Tatjana	Institute of Medical and Clinical Biochemistry	to be submitted at a later date	to be submitted at a later date
Mon/Thur	15	Gil del Valle, Lizette	Instituto de Medicina Tropical "Pedro Kourí" (IPK)	González I (1), Calás V (2), Gravier R (2), Tarinas A (2), Pérez D (2), Reyes A (2), Hernández D (2), León OS (1) Pérez JL (2). (1) IFAI-UH, (2) IPK Havana, Cuba	OXIDANT /ANTIOXIDANT STATUS AND PROGRESSION MARKERS IN HIV/AIDS PATIENT'S BLOOD SAMPLES IN DIFFERENT CLINICAL CONDITIONS AND ANTIRETROVIRAL COMBINATIONS.
Tues/Thur	16	Dubreuil, Michael	Bassik Lab		Identifying Genetic Factors that Modulate Cellular Sensitivity to Oxidative Stress with Genome-Wide shRNA and CRISPR/Cas9 Screens
Tues/Thur	17	Goebel, Christoph	The Campbell Family Institute for Breast Cancer Research at Princess Margaret Hospital	Kubli S., Bassi C., Baniasadi S.P., Tinto P., Wakeham D., Thu K., Pujana M.A., Mak T.W. and Gorrini C.	Oxidative stress activates aryl hydrocarbon receptor to support tumor growth in BRCA1-associated breast cancers

Present on	Number	Presenting Author	Organization	Co-Authors	Poster title
Tues/Thur	18	Gruber, Florian	Medical University of Vienna	Marie-Sophie Narzt, Ionela M. Nagelreiter, Valery N. Bochkov, Julie Latreille, Maria Fedorova, Zhixu Ni, Johannes Grillari, Erwin Tschachler, Florian Gruber	A poly-omic investigation of the effects of ultraviolet light A on primary human keratinocytes
Tues/Thur	19	Hayakawa, Hiroshi	Fukuoka Dental College	Hiroshi Hayakawa, Takashi Ishii, Mutsuo Sekiguchi	Human proteins that recognize oxidative RNA damage
Tues/Thur	20	Kim, Hwa-Young	Yeungnam University		Down-regulation of MsrB3 induces apoptosis in cancer cells through ROS production and activation of the intrinsic mitochondrial pathway
Tues/Thur	21	Marti Andres, Pablo	Universidad de Valencia	P. Martí-Andrés, S. Pérez, I. Finamor, S. Rius-Pérez, J. Sastre	Gamma Glutamylcysteine Prevents the Activation of the JNK Pathways whilst Recovering Protein Phosphatase Levels in Acute Pancreatitis
Tues/Thur	22	Nitti, Mariapaola	University of Genoa	Piras S., Furfaro A.L., Brondolo L., Passalacqua M., Marinari U.M., Pronzato M.A.	Differentiation impairs Bach1 dependent HO-1 activation and increases sensitivity to oxidative stress in neuroblastoma cells
Tues/Thur	23	Oettl, Karl	Medical University of Graz	Vera Fengler, Margret Paar, Sandra Lemesch, Rudolf Stauber, Joachim Enzendorfer, Andras Deak, Maximilian Lirscher, Richard Partl	Redox state of human serum albumin under different pathologies and interventions
Tues/Thur	24	Rius Perez, Sergio	Universidad de Valencia	Sergio Rius-Pérez ¹ , Salvador Pérez ¹ , Isabela Finamor ¹ , Ana-Martínez Tormos ¹ , Pablo Martí-Andrés ¹ , Ángel R. Nebreda ^{2,3} , Raquel Taléns-Visconti ⁴ , Juan Sastre	p38alpha regulates liver antioxidant gene expression via NF-kappaB through an age-dependent mechanism
Tues/Thur	25	Vigna, Luisella	Istituto Auxologico Italiano	Pradotto L.G., Calderoni S., Saccucci S., Fugnanesi V., Walker G.E., Morbin M., Mauro A.	TRANSTHYRETIN (TTR)-RELATED AMYLOIDOSIS: EVALUATION OF TETRAMER STABILIZATION BY ANTIOXIDANT POLYPHENOLS VERSUS CLASSIC THYROXINE-BINDING SITE STABILIZERS AND TTR AGGREGATES CYTOTOXICITY
Tues/Thur	26	Salvador Pascual, Andrea	University of Valencia		TBD
Tues/Thur	27	Tse, Gary	The Chinese University of Hong Kong		TBD

Present on	Number	Presenting Author	Organization	Co-Authors	Poster title
Tues/Thur	28	Wong, Sarah	University of Southern California		TBD
Tues/Thur	29	Go, Young-Mi	Emory University	Dean P. Jones	TBD
Tues/Thur	30	Cross, Carroll E	University of California, Davis	David Z. Silberstein ¹ , Kalimuthu Karuppanan ¹ , Hnin Hnin Aung ² , Ching-Hsien Chen ² , Carroll E. Cross ² , and Karen A. McDonald ¹	Plant-based Production, Purification, and Characterization of Oxidation-Resistant Alpha-1 Antitrypsin
Mon/Wed	31	Casas, Ana	Maastricht University	Ana I Casas, Eva Geuss, Pamela WM Kleikers, Stine Mencl, Manuela G Lopez, Christoph Kleinschnitz, Harald HHW Schmidt	NOX4-dependent neuronal autotoxicity and blood-brain barrier breakdown are essential to explain brain sensitivity to ischemic damage
Mon/Wed	32	Loehr, James	Baylor College of Medicine		Nox2 ROS: initiator or responder to alterations in mechanotransduction of dystrophic diaphragm muscle
Mon/Wed	33	Marsillach Lopez, Judit	University of Washington	Rebecca Richter, Thomas Bukowski, Michael MacCoss, Clement Furlong	Paraoxonase-1 inactivation by oxidative stress in cardiovascular disease
Mon/Wed	34	Remtulla, Ali	Aston University	Irundika Dias, Kiran Shabir, Malin Hultqvist, Therese Lindvall, Peter Olofson and Helen Griffiths	The effect of NOX regulatory compounds on CD4+ T cell activation
Mon/Wed	35	Rodney, George	Baylor College of Medicine		Nox2 ROS: Putting a Break on Autophagy
Mon/Wed	36	Rooney, Matt	Aston University	Paul Davies, Malin Hultqvist, Peter Olofson, Yvonne Perrie, Helen Griffiths	Advanced Adjuvants for Antibody Production
Mon/Wed	37	Eveesson, Frances	Children's Hospital at Westmead / University of Sydney	F. Evesson, H. Best, G. Xu, F. Lemckert, N. Fossat, M. Graham, P. Tam & S.T. Cooper	Determining the role and substrates of PYROXD1; an oxidoreductase underlying congenital muscle disease and essential for cellular viability.
Mon/Wed	38	Lee, Sherry	Northwestern University	Sherry Lee, Robert M. Harmon, Fumihiko Uchida, Toru Yanagawa, Gregory B. Waypa, Paul T. Schumacker, and Kathleen J. Green	Peroxiredoxin 1 promotes epidermal differentiation by stabilizing the cadherin desmoglein 1
Mon/Wed	39	Zong, Wei-Xing	Rutgers University		TRIM21 as a negative regulator of the p62-Keap1-Nrf2 pathway
Mon/Wed	40	Arora, Shvetambri	Bhaskaracharya College of Applied Sciences		The role of Calreticulin Transacetylase in Hypoxia

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Mon/Wed	41	Bartesaghi, Silvina	Universidad de la Republica Uruguay	Silvina Bartesaghi, Nicolás Campolo, Fede Issoglio, Ari Zeida, Tilman Grune, Darío Estrín and Rafael Radi	Oxidative Inactivation of Human Glutamine Synthetase
Mon/Wed	42	El Banna, Nadine	Institut Curie/CNRS/Universite Paris-Sud	Nadine El Banna, Elie Hatem, Amélie Heneman-Masurel, Dorothée Baille, Laurence Vernis, Jean-Michel Camadro, Giuseppe Baldacci, Meng-Er Huang	Investigating redox-based anticancer mechanisms of cisplatin
Mon/Wed	43	Huang, Meng-Er	Institut Curie, CNRS	Elie Hatem, Nadine El Banna, Tiantian He, Amélie Heneman-Masurel, Vanessa Masson, Florent Dingli, Damarys Loew, Meng-Er Huang	Generation of oxidative stress as an anticancer therapeutic strategy
Mon/Wed	44	Jaganjac, Morana/Al-Menhali, Afnan	Anti Doping Lab, Qatar	Afnan Saleh Al-Menhali, Andrey Abramov, Aishah A Latiff	The impact of 4-hydroxynonenal on C2C12 myotubes
Mon/Wed	45	Sparks, Nicole	University of California, Riverside	Walker LM, Bondesson M, zur Nieden NI	Harm-reduction tobacco products interfere with the differentiation of craniofacial bone
Mon/Wed	46	Rashdan, Eyman	Newcastle University	E. Rashdan, M. A. Birch-Machin	Sunscreens and the Effect of Electromagnetic Radiation
Tues/Wed	47	Deiana, Monica	University of Cagliari	Alessandra Incani, Angela Atzeri, Roberto Loi, Simone Calfapietra, Daniela Rossin, Giuseppe Poli, Fiorella Biasi	Effect of dietary oxysterols on tight junctions in the human intestinal Caco-2 cell line
Tues/Wed	48	Dias, Irundika	Aston University	Irundika HK Dias, Ivana Milic, Andrew Devitt, Cristina Polidori, Helen R Griffiths	Targeted lipidomic analysis of oxysterols in plasma from patients with Alzheimer's disease
Tues/Wed	49	Gallardo, Christopher	University of Minnesota	Hector A. Martell-Martinez, Sylvain E. Lesne, Michael K. Lee	Evaluating potential downstream mediators in A-beta-initiated neurodegeneration
Tues/Wed	50	Gamba, Paola	University of Turin	Paola Gamba, Gabriella Testa, Erica Staurengi, Simona Gargiulo, Giuseppe Poli, Gabriella Leonarduzzi	The silver lining of 24-hydroxycholesterol in Alzheimer's disease: the role of sirtuin 1
Tues/Wed	51	Ganguly, Souradipta	University of Calcutta	Souradipta Ganguly, Indranil Gupta and Koustubh Panda	Pulmonary emphysema and vascular remodeling are both triggered by cigarette smoke-induced oxidative stress but routed through diverse cytokine(s) and immune response pathways

Present on	Number	Presenting Author	Organization	Co-Authors	Poster title
Tues/Wed	52	Gargiulo, Simona	University of Turin	Simona Gargiulo, Daniela Rossin, Erica Staurengi, Gabriella Testa, Paola Gamba, Giuseppe Poli, Gabriella Leonarduzzi	PCSK6:a novel marker of plaque instability induced by oxidized lipids
Tues/Wed	53	Hatem, Elie	Institut Curie	Nadine El Banna, Tiantian He, Amélie Heneman-Masurel, Vanessa Masson, Florent Dingli, Damarys Loew, Meng-Er Huang	Generation of oxidative stress as an anticancer therapeutic strategy
Tues/Wed	54	Kadiiska, Maria	NIEHS/NIH	Thomas van't Erve, Ronald P. Mason	Reinterpreting the best biomarker of oxidative stress: The 8-isoPGF2a/PGF2a ratio shows a complex distribution of lipid peroxidation in humans and animal models
Tues/Wed	55	Monti, Sarah	National Heart, Lung, and Blood Institute, NIH	Jon W. Werner-Allen, Ad Bax, Rodney L. Levine	Alpha-synuclein Crosslinked by Pyrrole Linkages Derived from Dopamine
Tues/Wed	56	Orabueze, Ifeoma	University of Lagos	Orabueze, Celestina I; Adesegun, Sunday A; Ota, Duncan A and Coker, Herbert A	EVALUATION OF ANTIMALARIAL AND ANTI-OXIDATIVE STRESS PROPERTIES OF STEMONOCOLEUS MICRANTHUS HARMS (LEGUMINOSEAE) STEM BARK
Tues/Wed	57	Ozer, Nesrin	Marmara University	Ali Sahin, Erdi Sozen, Tugce Demirel, Betul Karademir	Endoplasmic Reticulum Stress-Related Signaling and Lipid Metabolism in Non-Alcoholic Fatty Liver Disease
Tues/Wed	58	Paardekooper, Laurent	Radboud Institute for Molecular Life Sciences	Geert van den Bogaart, Matthijs Kox, Ilse Dingjan, Anne Neerincx, Maura B. Bendix, Martin ter Beest, Frans J.M. Harren, Terence Risby, Peter Pickkers, Nandor Marczin, Simona M. Cristescu	Lipid peroxidation product ethylene is a real-time respiratory marker for systemic inflammation
Tues/Wed	59	Corrales-Diaz Pomatto, Laura	University of Southern California	TBD	TBD
Tues/Wed	60	Elbatrik, Mahmoud	Maastricht University		TBD
Tues/Wed	61	Ingles de la Torre, Marta	University of Valencia		TBD