4th PhD Symposium

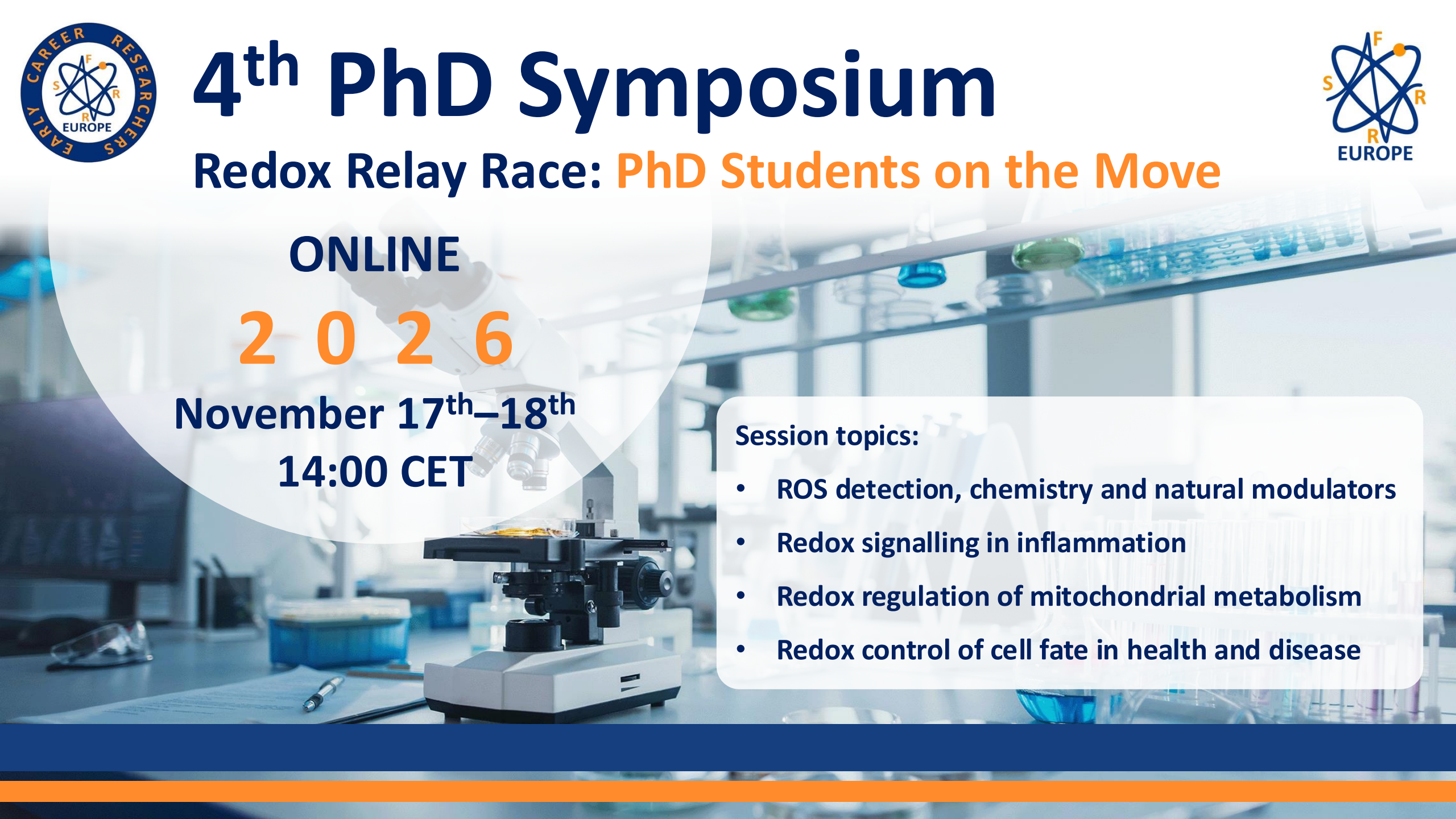
Redox Relay Race: PhD Students on the Move

ONLINE

2026

November 17th–18th

14:00 CET



Session topics:

- ROS detection, chemistry and natural modulators
- Redox signalling in inflammation
- Redox regulation of mitochondrial metabolism
- Redox control of cell fate in health and disease

Discover our SFRR-E ECR activities

Learn, share your research and connect

ECR webinar series

Emerging leaders in redox biology
First Tuesday each month, 15:00 CET

Skills webinars

Grant writing, career transitions, science outreach and communication

ECR Editorial mentoring

Gain hands on experience in editorial work

SFRR-E Newsletter

Monthly news, events and opportunities for ECRs

ECR mentoring program

Career guidance from experienced mentors

ECR networking events

Meet PhD students and postdocs
Games and prizes included

Meet the Professors

Build connections through an informal networking game

ALL ECRs ARE WELCOME!!!

Stay connected!!!

Linktree
linktr.ee/SFRRE

Instagram
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LinkedIn
linkedin.com/company/sfrr-e-ecr/

Website
sfrr-europe.org/index.php/ecr-committee

4th PhD Symposium

Redox Relay Race: PhD Students on the Move

Dates and venue

17th November 2026
18th November 2026
Online only event

Daily programme

First session: 14:00–15:00 CET
Break: 15:00–16:00 CET
Second session: 16:00–17:00 CET

Presentation format

Five-minute flash talk followed by two minutes of questions from the audience.

Organisers and contact

SFRR-E Early Career Researchers (ECR) Committee
ecr@sfrr-europe.org

Redox Half Time: ECR networking

One-hour informal break between sessions. Grab a coffee and chat with fellow ECRs and ECR Committee members.

Presentation prize and certificates

Free registration for the SFRR-E Annual Meeting 2027 in Porto. Certificates will be issued for all participants.

Guidelines for the preparation of the flash talks

Each speaker has seven minutes in total:

5 minutes for the oral presentation

2 minutes for questions immediately afterwards

- **Extra questions will be also posted on each session's LinkedIn post. Speakers will answer them after the event.**

Please keep strictly to your allocated time!

Preparing your presentation

Keep the research question, approach, main findings and conclusions clear and concise.

Online participation

Check your microphone and screen sharing in advance. Keep your microphone muted when you are not speaking.

Platform: Zoom | Meeting ID - 864 6973 1540 | Passcode - 433382

OVERVIEW PROGRAMME

Redox Relay Race: PhD Students on the Move

Time (CET)	Tuesday, 17th November	Wednesday, 18th November
14:00–15:00	**Session I** ROS detection, chemistry and natural modulators *7 speakers*	**Session III** Redox regulation of mitochondrial metabolism *7 speakers*
15:00–16:00	**Redox Half Time** ECR Networking	**Redox Half Time** ECR Networking
16:00–17:00	**Session II** Redox signalling in inflammation and disease *6 speakers*	**Session IV** Redox control of cell fate in development and disease *7 speakers*

SCIENTIFIC PROGRAMME

	4th PhD Symposium **Tuesday, 17 November 2026** Online · All times CET (UTC+1)
14:00–14:05	**Welcome** **Timoteo Marchini** (Vascular Immunology Laboratory, Department of Cardiology and Angiology, University Heart Center Freiburg, Faculty of Medicine, University of Freiburg, Germany) **Jose Manuel Ugalde** (INRES-Chemical Signalling, University of Bonn, Germany)
	ROS detection, chemistry and natural modulators - Session I *Chairs: **Julia Vorhauser** (Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm, Sweden) and **Jose C Casas-Martinez** (Discipline of Physiology, School of Pharmacy and Medical Sciences, University of Galway, Galway, Ireland)*
14:05–14:12	**Edward Jijie** *(Department of Chemistry, University of York, United Kingdom)* **A novel model system for investigating radical oxidation of biomolecules in the solid phase**
14:12–14:19	**Emma Herbst** *(RPTU Kaiserslautern-Landau)* **Nanodiamond-Based Detection of Free Radicals in Solution**
14:19–14:26	**Isadora Medeiros** *(Institute of Chemistry, University of São Paulo - São Paulo, Brasil)* **PxIII-roGFP2: A Novel Tool To Real-time Detection Of Organic Hydroperoxides In Living Cells**
14:26–14:33	**Miriam Molina-Escobar** *(Group of Antioxidants, Free Radicals and Nitric Oxide in Biotechnology, Food and Agriculture, Department of Stress, Development and Signaling in Plants, Estación Experimental del Zaidín (Spanish National Research Council, CSIC), Granada, Spain)* **Carotenoid biosynthesis pathway in pepper (Capsicum annuum L.) fruits is differentially modulated by nitric oxide (NO) through redox post-translational modifications**
14:33–14:40	**Maria Gkasdrogka** *(Department of Biochemistry and Biotechnology, University of Thessaly, 41500 Larissa, Greece)* **Variety and agronomy tune the redox-modulating bioactivity of Greek olives.**
14:40–14:47	**Lucija Burić** *(Department of Biomedical Engineering, University Medical Center Groningen, Antonius Deusinglaan 1, 9713 AV Groningen, The Netherlands)* **FND-based T_1 relaxometry for investigating free-radical-associated responses in neutrophils and future application to sepsis.**
14:47–14:54	**Jorge Taboada** *(Group of Antioxidants, Free Radicals and Nitric Oxide in Biotechnology, Food and Agriculture, Department of Stress, Development and Signaling in Plants, Estación Experimental del Zaidín (Spanish National Research Council, CSIC), Granada, Spain)* **Ripening modulation in sweet pepper (Capsicum annuum L.) fruits by exogenous melatonin treatment**
14:54–15:00	Discussion and session closing
15:00–16:00	**Redox Half Time: ECR Networking**

SCIENTIFIC PROGRAMME

	4th PhD Symposium **Tuesday, 17 November 2026** Online · All times CET (UTC+1)
16:00–16:05	**Session introduction** **Timoteo Marchini** (Vascular Immunology Laboratory, Department of Cardiology and Angiology, University Heart Center Freiburg, Faculty of Medicine, University of Freiburg, Germany) **Jose Manuel Ugalde** (INRES-Chemical Signalling, University of Bonn, Germany)
	Redox signalling in inflammation and disease - Session II *Chairs: **Jose C Casas-Martinez** (Discipline of Physiology, School of Pharmacy and Medical Sciences, University of Galway, Galway, Ireland) and **Julia Vorhauser** (Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm, Sweden)*
16:05–16:12	**Selene Del Duca** *(Department of Environmental and Prevention Sciences, University of Ferrara, Ferrara, Italy)* **NLRP3 inflammasome as a new player in Microplastic cutaneous toxicity**
16:12–16:19	**Lila Lopez-Montañana** *(Universidad de Buenos Aires, Facultad de Farmacia y Bioquímica Instituto de Bioquímica y Medicina Molecular Prof. Alberto Boveris (IBIMOL, UBA-CONICET), Buenos Aires, Argentina)* **IgG-enriched protein aggregates induced by the mixture Cu(II) and ascorbic acid trigger oxidative burst in human macrophages**
16:19–16:26	**Helen Hemmling** *(Department of Biomedical Sciences, Faculty of Health and Medical Sciences, University of Copenhagen, Copenhagen, Denmark)* **Characterisation of the protein composition and histone modification in neutrophil and eosinophil extracellular traps.**
16:26–16:33	**Samuel Fulco** *(Department of Environmental and Prevention Sciences, University of Ferrara, Ferrara, Italy)* **In vitro analysis of the efficacy of NLRP3 inflammasome inhibitors as a potential therapeutic approach for Rett syndrome**
16:33–16:40	**Antonio Manuel Montes-Osuna** *(Maimonides Biomedical Research Institute of Córdoba (IMIBIC), Spain. Dept. Of Biochemistry and Molecular Biology, University of Córdoba, Spain, Reina Sofía University Hospital Córdoba, Spain)* **Antioxidant enzyme peroxiredoxin 6 is released by astrocytes and promotes neuronal death in neurodegeneration models**
16:40–16:47	**Yanislav Hrytseniuk** *(University Medical Center Mainz, Department for Cardiology 1, Molecular Cardiology, Mainz, Germany)* **Impact of short-term shisha smoke exposure on heme metabolism pathway and mitochondrial respiration in mice – role of carbon monoxide**
16:47–17:00	Discussion and session closing
17:00	End of Day 1

SCIENTIFIC PROGRAMME

	4th PhD Symposium **Wednesday, 18 November 2026** Online · All times CET (UTC+1)
14:00–14:05	**Session introduction** **Timoteo Marchini** (Vascular Immunology Laboratory, Department of Cardiology and Angiology, University Heart Center Freiburg, Faculty of Medicine, University of Freiburg, Germany) **Jose Manuel Ugalde** (INRES-Chemical Signalling, University of Bonn, Germany)
	Redox regulation of mitochondrial metabolism - Session III *Chairs*: ***Cristina Mas-Bargues*** *(Physiology Department, Faculty of Medicine, University of Valencia, Spain) and* ***Julia Vorhauser*** *(Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm, Sweden)*
14:05–14:12	**Wendy Quilumbaquin** *(Universidad de Buenos Aires, CONICET, Instituto de Bioquímica y Medicina Molecular (IBIMOL), Facultad de Farmacia y Bioquímica , Argentina. Universidad de Buenos Aires, Facultad de Farmacia y Bioquímica , Departamento de Ciencias Químicas , Cátedra de Fisicoquímica , Buenos Aires-Argentina)* **Bioenergetic and oxidative alterations in pancreatic acinar cells at different stages of endotoxemia**
14:12–14:19	**Néstor Jiménez-Cañete** *(Department of Physiology, Faculty of Pharmacy, University of Valencia, Spain)* **MFN2 deficiency precipitates early-onset pancreatic fibrosis during acute pancreatitis in mice**
14:19–14:26	**Sara Melija** *(Department of Environmental and Prevention Sciences, University of Ferrara, Ferrara, Italy)* **Alterations in ER–Mitochondria Calcium-Handling Machinery in Rett Syndrome: A Potential Role for Redox Imbalance**
14:26–14:33	**Serena S Özturk** *(Research Programs Unit, Stem Cells and Metabolism, University of Helsinki, 00290 Helsinki, Finland)* **Mitochondrial genome instability disrupts brown adipose tissue through pseudohypoxia-iron-NAD^+ axis**
14:33–14:40	**A. Valar** *(Laboratory of Molecular Cardiology, Department of Cardiology 1, University Medical Center of the Johannes Gutenberg-University, Mainz, Germany)* **Subchronic Aircraft Noise Exposure Alters Mitochondrial Complex I Function and Cardiometabolic Regulation in Mouse Models**
14:40–14:47	**Manuela Hidalgo** *(Biomedicine Research Institute Sols-Morreale (IIBM, CSIC-UAM), Madrid, Spain)* **Loss of mitochondrial plasticity negatively impacts on HCC development in the context of MASLD.**
14:47–14:54	**Alberto Ortiz-Olivencia** *(Department of Biochemistry and Molecular Biology, University of Córdoba. Córdoba, Spain. Maimónides Biomedical Research Institute of Córdoba (IMIBIC). Córdoba, Spain)* **Loss of PRDX6 Phospholipase A2 Activity Sensitizes Hepatocarcinoma Cells to Ferroptosis and Impairs Mitophagy**
14:54–15:00	Discussion and session closing
15:00–16:00	**Redox Half Time: ECR Networking**

SCIENTIFIC PROGRAMME

	4th PhD Symposium **Wednesday, 18 November 2026** Online · All times CET (UTC+1)
16:00–16:05	**Session introduction** **Timoteo Marchini** (Vascular Immunology Laboratory, Department of Cardiology and Angiology, University Heart Center Freiburg, Faculty of Medicine, University of Freiburg, Germany) **and Jose Manuel Ugalde** (INRES-Chemical Signalling, University of Bonn, Germany)
	Session IV: Redox control of cell fate in development and disease *Chairs*: ***Julia Vorhauser*** *(Department of Medical Biochemistry and Biophysics, Karolinska Institutet, Stockholm, Sweden) and* ***Jose C Casas-Martinez*** *(Discipline of Physiology, School of Pharmacy and Medical Sciences, University of Galway, Galway, Ireland)*
16:05–16:12	**Atefeh Moradi** *(Department of Life Sciences, University of Trieste, Italy)* **Mitochondrial Remodeling and Functional Dysregulation Across Neuronal Maturation in Rett Syndrome: Implications for Ox-Inflammatory Signaling**
16:12–16:19	**Eva Martín-Prieto** *(Department of Physiology and Pharmacology, University of Salamanca, Salamanca, Spain. Institute of Neurosciences of Castilla y León (INCYL), Salamanca, Spain)* **Oxidative eustress in skeletal muscle: implications for glucose uptake under physiological and insulin-resistant conditions**
16:19–16:26	**James William A** *(Division of Cancer Research, School of Medicine, Faculty of Health, University of Dundee, Dundee, UK)* **Nrf2 activation sensitises cancer cells to the quinone-containing Hsp90 inhibitor 17-DMAG.**
16:26–16:33	**Ángel Ortiz-Alcántara** *(Dept. of Biochemistry and Molecular Biology, University of Córdoba, Spain. Maimónides Biomedical Research Institute of Córdoba (IMIBIC), Spain)* **Distinct roles of PRDX6 peroxidase and phospholipase A2 activities in redox homeostasis, oncogenic signaling and migration of HepG2 cells**
16:33–16:40	**Anna Hampel** *(Institute of Biological Chemistry, Faculty of Chemistry, University of Vienna, Währinger Str. 38, 1090 Vienna, Austria University of Vienna, Vienna Doctoral School in Chemistry (DoSChem), Währinger Str. 42, 1090 Vienna, Austria)* **Defining the Effects of Methionine Oxidation in α-Synuclein**
16:40–16:47	**Carmen Chiaradia** *(Department of Motor, Human and Health Sciences, Research Area: Biochemistry and Molecular Biology – Biochemistry of Movement, University of Rome " Foro Italico", Piazza L. de Bosis 6, 00135 Rome, Italy)* **Effects of Extra-Virgin Olive Oil Polyphenols on the Skeletal Muscle System Under Oxidative Stress: Sustainable Extraction and In Vitro Assessment During C2C12 Myogenic Differentiation**
16:47–16:54	**Dustin Schilling** *(Max-Planck-Institute for Polymer Research, Mainz, Germany Max Planck Graduate Center with the Johannes Gutenberg University of Mainz (MPGC))* **Using an organelle-targeted radical generation system to understand the subcellular regulation of ferroptosis**
16:54–17:00	Discussion and session closing
17:00	End of the symposium



The award will be announced on

1st December 2026

during the ECR webinar

See you next year at the

5th PhD Symposium

THANK YOU FOR BEING PART OF THE 4th PhD SYMPOSIUM

SFRR-E Early Career Researchers (ECR) Committee