

EpiLipidNET Newsletter July 2023

Greetings and Aims

Dear EpiLipidNET Community,

This Newsletter aims to be a forum for updates on the COST Action EpiLipidNET (CA 19105) and presentation of ideas and opportunities to further contribute to networking. In this edition we are bringing you news from several meetings and conferences in the first half of 2023 where EpiLipidNET members participated or organized sessions. Our special thanks to Rosário Domingues and Maria Fedorova, Chair and Co-Chair of the Action for their continuous effort in promoting activities and development of EpiLipidNET.



EpiLipidNET at iSLS11

EpiLipidNET members participated in the 11th International Singapore Lipid Symposium on the 21-23 March 2023. We had 3 wonderful days in Singapore and had the opportunity to engage with researchers from different lipid societies and discuss trends and challenges.

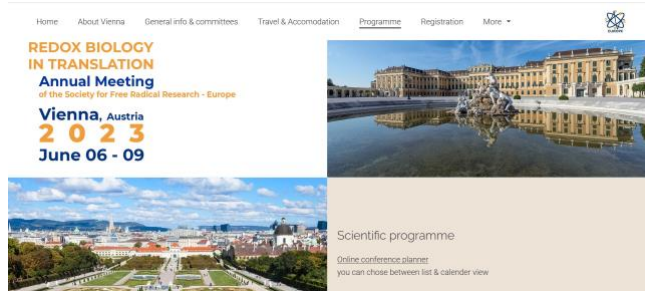


Our COST Action was represented by our chair Rosário Domingues and three Young Researchers and Innovators (YRI): Michaela Vondrácková, Tânia Melo, and Tito Damiani, who disseminated research from our Cost Action, in a session dedicated to EpiLipidNET. We are delighted that Tânia Melo won the best oral presentation.

We would like to thank Markus R Wenk for being an amazing host and our WG1 vice-leader Amaury Cazenave Gassiot for all the support.

Also, a special thanks to @COST for funding these incredible chances for learning and knowledge exchange.

News from the SFRR-E 2023 Meeting and Satellite EpiLipidNET Symposia



The Society for Free Radical Research Europe held its Annual Meeting (“Redox Biology in Translation”) in the beautiful city of Vienna (June 6th to 9th, 2023, <https://www.redoxvienna2023.com/>).

Organized by EpiLipidNET WG4 leader, Prof. Florian Gruber, the meeting was a great success, with inspiring highlights, such as the

Plenary conference delivered by Prof. Masayuki Yamamoto, recipient of the SFRR- E Annual Award. The session was chaired by SFRR-E President, Prof. Juan Sastre and the Chair of the BenBedPhar COST Action CA20121 (<https://benbedphar.org>), Prof. Antonio Cuadrado.

The meeting showcased the active participation of Early Career Researchers from the Society, who form an energetic group promoting networking and passion for science (<https://www.sfrr-europe.org/index.php/sfrr/e-cr-early-career-researcher>). As part of its traditional fostering of young researchers, SFRR-E Young Investigator Awards were announced at the Congress dinner. Sponsored by the SFRR-E, the Oxygen Club of California, and Elsevier, these awards recognize the



best scientific communications and provide bursaries to attend the next SFRR-E meeting to present the development of their work. Congratulations to EpiLipidNET member Palina Nepachalovich, for her award!

EpiLipidNET held two satellite symposia at the SFRR-E meeting: “Multimodal imaging of stress and inflammation” (in collaboration with TissueGnostics), and “The metabolome and the (epi-)lipidome in adaptation to stress”, with great talks by EpiLipidNET members Rosário Domingues, Tânia Melo, Idoia Company and Olga Oskolkova.

The SFRR-E meeting also hosted the Satellite Symposium of the HNE Club, organized by EpiLipidNET co-chair Maria Fedorova, and with the keynote lecture by Prof. Rudolf J. Schaur, who offered a historical perspective of HNE discovery.

News from the EpiLipidNET Working Gropus

Last WG2 meeting (May, 16th) was focused on Oxidized lipids in algae, with excellent talks by Thierry Durand (IBMM - UMR 5247, FR), Angel Gil-Izquierdo, Silvia Montoro (CEBAS-CSIC, ES), and Rosario Domingues (University of Aveiro, PT). In addition, Corinne Spickett (Aston University, UK) presented WG5 activities, which received a positive feedback from WG2 members.

The WG3 participants are currently involved in preparing several review papers and actively engaged in the Blood microsampling ring study (lead – Matej Oresic and Alex Dickens) with 27 participants from 16 countries (14 COST countries).

EpiLipidNET STSM news

EpiLipidNET (CA19105) provides grants to support Short Term Scientific Missions (STSM) with the aim of enabling stays of investigators at foreign research institutions and facilitate networking and knowledge exchange as well as the establishment of new collaborations in the field of lipid and epilipid research. During GP3, EpiLipidNET announced three calls for applications with the last one still being open for submission until July 9th. Up to now, 14 STSM were granted with an overall budget of 30.017 € corresponding to 73% of the overall budget for STSM available in GP3. The beneficiaries of STSM grants during GP3 were equally distributed between Young Researchers and Innovators (YRIs) (i.e., PhD students and post-doctoral researchers under the age of 40), and established researchers and laboratory technicians. Home and host institutions from 14 different countries participated, with 50% of participants coming from Inclusiveness Target Countries (ICTs). The duration of granted STSM varied between 6 days and 2 months with a median duration of 30 days and the granted budgets intended to support travelling, accommodation, and meals ranged between 970 and 4000 € with a median of 2200 €.

In summary, during GP3, the STSM program reached its initially established goals and successfully provided support for research stays relevant to the diverse goals of the working groups established within EpiLipidNET. We hope that during the upcoming months this program will continue to be well-received by researchers working in the field and encourage the submission of applications for the current and upcoming calls (STSM Coordinator Julia Kuligowski & Grant Awarding Coordinator Joanna Godzien).

EpiLipidNET ITC Conference Grants news

During GP3, the ITC Conference Grants Committee received 17 applications for a grant, 15 applications were approved, while 2 applications were rejected as the abstracts were not relevant to EpiLipidNET. Among 15 supported grantees, 7 were YRI and 5 PhD students, 6 male and 9 female, there were 6 oral and 12 poster presentations on 10 different conferences. The total requested amount was 20270 EUR, and the average budget awarded per grant was 1351 EUR. (ITC CG Coordinator Snjezana Petrovic).

Looking forward to the next General Meeting in Toulouse!



The 4rd EpiLipidNET Action Meeting and young researchers and innovators (YRI) workshop will take place in Toulouse (France) from the 10th to the 12th of July 2023 and will bring together the EpiLipidNET community.

<https://epilipidnet.sciencesconf.org/>

We are preparing an exciting program and activities for you. This will be an opportunity to meet new people and exchange new ideas and knowledge and find interesting collaborations. Looking forward to meeting you in Toulouse!

Recent EpiLipidNET Publications

Stefano Bonciarelli, Bruna Neves, Pedro Domingues, Tânia Melo, Laura Goracci, Maria Rosário Domingues. Analysis of Phosphatidylinositol Modifications by Reactive Nitrogen Species Using LC-MS: Coming to Grips with Their Nitroxidative Susceptibility. *J Am Soc Mass Spectrom*, 2023; in press (this is a publication from the work developed during a STSM funded by EpiLipidNET).

Bayona-Hernandez A, Guerra S, Jiménez-Ramírez IA, Sztacho M, Hozak P, Rodríguez-Zapata LC, Pereira-Santana A, Castaño E. LIPRNAseq: a method to discover lipid interacting RNAs by sequencing. *Mol Biol Rep*. 2023. doi: 10.1007/s11033-023-08548-5.

Abraúl M, Alves A, Hilário S, Melo T, Conde T, Domingues MR, Rey F. Evaluation of Lipid Extracts from the Marine Fungi *Emericellopsis cladophorae* and *Zalerion maritima* as a Source of Anti-Inflammatory, Antioxidant and Antibacterial Compounds. *Mar Drugs*. 2023;21(4):199.

Guerra IMS, Ferreira HB, Melo T, Rocha H, Moreira S, Diogo L, Domingues MR, Moreira ASP. Mitochondrial Fatty Acid β -Oxidation Disorders: From Disease to Lipidomic Studies-A Critical Review. *Int J Mol Sci*. 2022 Nov 11;23(22):13933.

Crisuolo A., Nepachalovich P., Garcia-del Rio D.F., Lange M., Ni Z., Baroni M., Cruciani G., Goracci L., Blüher M., Fedorova M. Analytical and computational workflow for in-depth analysis of oxidized complex lipids in blood plasma. *Nat Commun* 2022;13(1):6547.

Special Issues guest edited by EpiLipidNET members

A collaborative Special Issue with EpiLipidNET highlights will be put together towards the end of the Action. Stay tuned!

Marine Drugs (ISSN 1660-3397). Special Issue "Marine Lipids 2023". Guest Editors: R. Calado & R. Domingues. Submission deadline: 30th September 2023. Website: https://www.mdpi.com/journal/marinedrugs/special_issues/4VWLIW3238

Antioxidants (ISSN 2076-3921) Special Issue: "Protein Lipoxidation at the Crossroads between Reactive Lipid Species and Redox Signaling". Guest Editors: D. Pérez-Sala & R Domingues. Submission deadline extended: 15th November 2023. Website: https://www.mdpi.com/journal/antioxidants/special_issues/7D4OIIH7PJ

Antioxidants (ISSN 2076-3921): Special Issue "Redox Homeostasis in Response to Exogenous Stimuli". Guest Editor: M. Jaganjac; Submission deadline: 30th November 2023; Website: https://www.mdpi.com/journal/antioxidants/special_issues/Redox_Homeostasis_in_Response_to_Exogenous_Stimuli

Social Media Activities

EpiLipidNET WG5 is actively working to improve the presence of the Action in Social media. Please contact WG5 members (<https://www.epilipid.net/wg5/>) for posting the most exciting news about our Action:



Twitter: <https://twitter.com/epilipidnet>

LinkedIn: <https://www.linkedin.com/company/epilipidnet/>

Expert map at <https://www.epilipid.net/directory/>

Newsletter: <https://www.epilipid.net/dissemination-outreach/>

News from the “EpiLipidNET constellation”

* Dubrovnik Summer School on Molecular Biosciences in Medicine with the International Oxidative Stress Symposium. University of Dubrovnik, September 11-15, 2023



* 63rd International Conference on the Bioscience of Lipids. Palma de Mallorca, Spain, 2-5 October 2023.
@icbl2023_Palma.

<https://www.ciberobn.es/agenda/63rd-edition-of-the-international-conference-on-the-bioscience-of-lipids-icbl>.

SfRBM - SFRR 2023 Conference



* Society for Free Radical Biology and Medicine and Society for Free Radical Research International Meeting. Punta del Este, Uruguay, 15-18 November 2023.

<https://sfrbm.org/meetings/sfrbm-sfrr>

[2023/conference-preview/](https://www.epilipid.net/2023/conference-preview/)

EpiLipidNET Networking: focus on SFRR-E ECR Subcommittee

In 2021, the Society for Free Radical Research - Europe (SFRR-E) founded the Early Career Researcher Subcommittee (ECR Subcommittee) to encourage an active participation of early-career investigators. The ECR Subcommittee currently consists of 11 SFRR-E members under the age of 40 or less than 10 years after obtaining a PhD and our aim is to bring ECRs into the spotlight. **WEBINAR SERIES:** To support training and education in redox research, the ECR Subcommittee organizes topic-specific seminar series, courses, and workshops aimed at young investigators to facilitate the dissemination of ideas, recent scientific discoveries, methodological breakthroughs, and technological advancements.

MENTORING PROGRAM: To provide support to ECRs, the ECR Subcommittee has established a mentoring program bringing together Junior researchers with Senior researchers. The program runs annually and a new mentoring round will start in January 2024.

SOCIAL MEDIA: The ECR Subcommittee aims to create a vibrant ECR community within the SFRR-E. Building upon the core values of SFRR-E, the ECR Subcommittee aims to facilitate the exchange between researchers and promote ECRs and their research.

Want to contact us?



www.sfrr-europe.org



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Have a nice summer!!

Stay tuned for the new sections on WG groups and Young Researchers and Innovators. If you wish to be featured in the newsletter, either in the existing sections or proposing a new section, or wish to send feedback and information for upcoming Newsletters please contact:

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Dolores Pérez-Sala (dperezsala@cib.csic.es)

Evelina Charidemou, YRI section (charidemou.evelina@ucy.ac.cy)

Thank you!