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ΕΘΝΙΚΟ ΙΔΡΥΜΑ ΕΡΕΥΝΩΝ
National Hellenic Research Foundation



In silico and *in vitro* approaches to assess biodegradability and prioritize environmentally friendly chemotypes of synthetic and natural origin”

Friday, 27th March 2026 14:00-17:00 (CET)

This online event will be on the Teams platform

WG1/WG2/WG3/HG7 Workshop of the COST Action CA21111 One Health drugs against parasitic vector-borne diseases in Europe and beyond OneHealthdrugs

The event is open to PhD, young innovators and senior scientists from both academia and pharma

We are excited to announce the workshop “*In silico* and *in vitro* approaches to assess biodegradability and prioritize environmentally friendly chemotypes of synthetic and natural origin” organized in the context of the COST Action 21111 OneHealthdrugs – “One Health drugs against parasitic vector-borne diseases in Europe and beyond” (<https://onehealthdrugs.com>). The COST Action network aims to coordinate the discovery of drugs that stop vector-borne infections in both human and veterinary settings according to the principles of the optimal profile for these organisms, increasing quality and reducing environmental impact.

The workshop is jointly organized by WG1, WG2, WG3 and HG7 and will cover innovative models (*in silico* and experimental) at the interface of drug discovery for VBDs and (eco)toxicology including biodegradability. This collaborative event will provide a platform for scientists, academics, young researchers and industry professionals to share insights, methodologies, advancements, a pipeline and portfolio of approaches in the pursuit of environmentally conscious antiparasitic drug discovery.

Friday 27 th March 2026	
14:00-14:05	Opening remarks: Ulrike Wittig (WG1), Theodora Calogeropoulou (WG2), Guy Caljon (WG3), Sandra Gemma (HG7) Maria Paola Costi (Action Chair)
14:05-14:20	Green Drug Score for ranking compounds from virtual screening approaches in the drug discovery process. - Daniele Aiello Department of Life Science University of Modena and Reggio Emilia
14:20 - 15:00	In vivo evaluation of biodegradation of chemical substances – Gerald Thouand Nantes Université
15:00 – 15:40	Integrating Bioavailability into Persistence Testing to Improve Prospective Environmental Risk Assessment of Organic Chemicals - Jose-Julio Ortega-Calvo Instituto de Recursos Naturales y Agrobiología de Sevilla, CSIC, Spain
15:40 – 16:00	Annotation of compounds using in-silico methods Reagon Karki
16:00 – 16:20	Innovations in bio-assays employed in drug discovery Sheraz Gul Fraunhofer Institute for Translational Medicine & Pharmacology, Germany
16:20 – 16:40	Integration of Metabolite Prediction in the G.A.I.A Platform for Ecotoxicity Assessment Eleni Chontzopoulou Cloudpharm PC, Athens 15125, Greece
16.40 -16.50	Updates on OneHealthDrugs by the Action chair – Prof. Maria Paola Costi Department of Life Science University of Modena and Reggio Emilia
16:50 – 17:00	Discussion and concluding remarks

We invite contributions from researchers and experts within the OneHealth*drugs* network. Abstracts will be selected based on the coherence to the topic and time of application. Other criteria will be country of affiliation, career stage, CA21111 participation and previous funding from the COST Action. Please submit your abstract to Theodora Calogeropoulou (tcalog@eie.gr), Sandra Gemma (gemma@unisi.it), Guy Caljon (Guy.Caljon@uantwerpen.be). The abstract template can be downloaded here https://docs.google.com/document/d/1Q_j8BwtotTUHjzCo9K0CTjghyYG1sBD5/export?format=docx

The event registration requires two steps : 1) create an e-COST account in the www.cost.eu and 2) register here: https://docs.google.com/forms/d/e/1FAIpQLScm_Wwf1iF4ZiCi_WkF_S9VZrRLUTFSJ7FVViFvoPNqxxk_Ug/viewform?usp=publish-editor