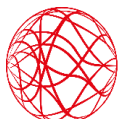


Details of the organizer:

Imre Lengyel, PhD
Senior Lecturer (QUB) and Honorary Senior Lecturer (UCL)
The Wellcome-Wolfson Building
Centre for Experimental Medicine
School of Medicine, Dentistry and Biomedical Science
Queen's University Belfast
97 Lisburn Road
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Telephone: +44 (0) 28 9097 6027
Email: i.lengyel@qub.ac.uk
skype address: imrelengyel

Web: <http://www.qub.ac.uk/research-centres/CEM/>
Location: The QUB Campus Finder Map can be found [here](#)

Latest news items: <http://www.fightforsight.org.uk/news-and-views/articles/science-blog/overview-drs-imre-lengyel-and-alan-stewart-on-amd/>

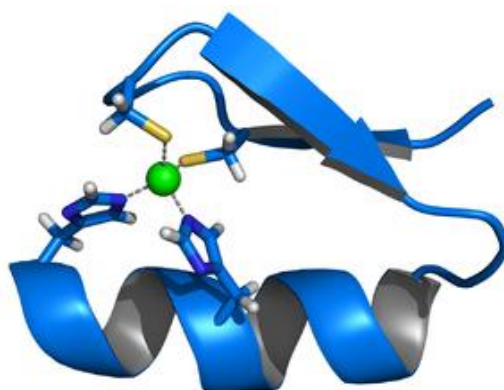


Zinc-Net Management Committee Meeting

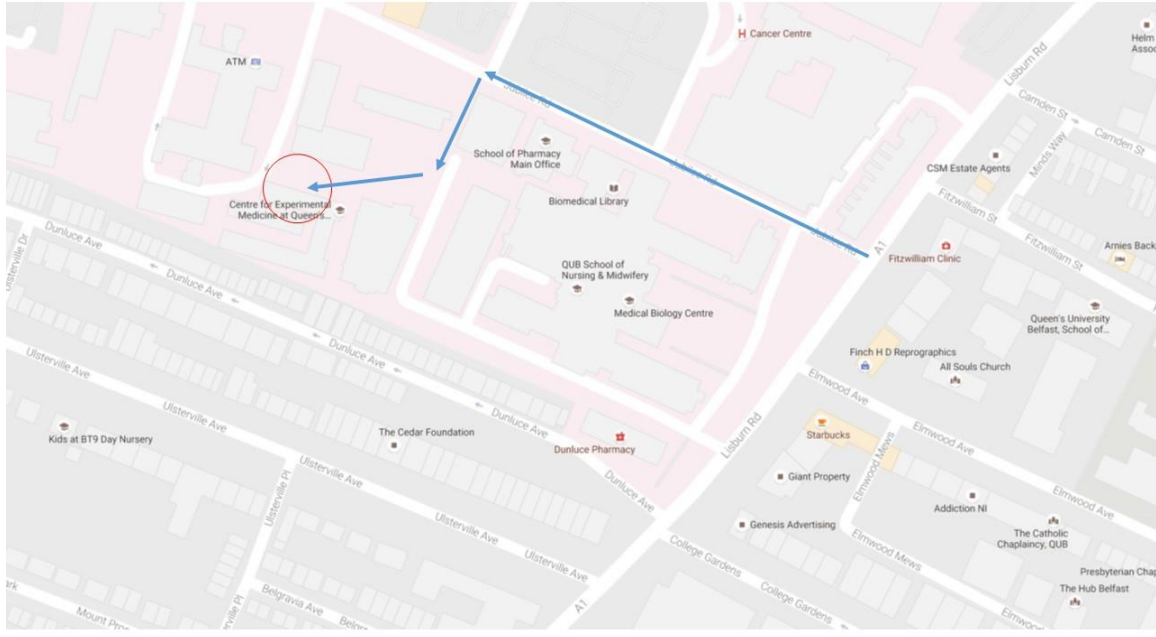
And

Zinc-Net/Zinc-UK Conference

21st and 22nd of November 2016
Centre of Experimental Medicine
The Queen's University Belfast
UK



How to find CEM from Lisburn road



Look for the red globe



DAY ONE

9.00-9.30 Registration with coffee and biscuits for MC members only

9.30-12.00 MC Meeting and

12.00-13.00 Registration with Sandwich Lunch

13.00 Announcements

Imre Lengyel

Opening of the meeting

Professor Jose Bengoechea

Director of the Centre of Experimental Medicine

Queens's University Belfast

Nicola Lowe

Zinc-Net and the conference with the International Society of Zinc Biology in Cyprus

Irina Korichneva

Zinc-UK in Amiens: a proposal

13.30-14.15 Plenary Speaker

Title: Zn interaction with MG53 for cell membrane repair and tissue regeneration

Author: Jianjie Ma

Department of Surgery, Ohio State University

14.15-14.30 Talk

Title: Investigating the role of protein phosphorylation in zinc signaling using a combination of stable transfection, quantitative phosphoproteomics and molecular biology

Authors: Jakub Trojnar, Tine D.L. Rasmussen and Tine E. Thingholm

Department of Biochemistry and Molecular Biology, University of Southern Denmark

14.30-15.00 Talk

Title: Structural and functional features of the C-terminal cytoplasmic domain of ZnT8

Authors: Douglas Parsons, Christer Hogstrand & Wolfgang Maret

King's College London, Metal Metabolism Group, Diabetes & Nutritional Sciences Division, Faculty of Life Sciences & Medicine

15.00-15.30 Coffee Brake

15.30-15.45 Talk

Title: Challenges to newly weaned piglets in relation to zinc supply

Authors: Karoline Blaabjerg and Hanne Damgaard Poulsen

Department of Animal Science, Aarhus University, Foulum, Tjele, Denmark

15.45-16.00 Talk

Title: Zinc Transporters and Endoplasmic Reticulum Stress in Human Failing Heart

Authors: Erkan Tuncay, Aysegul Durak, Belma Turan

Department of Biophysics, Ankara University, Faculty of Medicine, Ankara, Turkey

16.00-16.15 Talk

Title: Plant architecture, auxin homeostasis and phenol content in seedlings of *Arabidopsis thaliana* grown in a Zn/Cd-enriched medium

Authors: Adriano Sofo, Rocco Bochicchio, Mariana Amato, Laura Fattorini, Angela Velocchia, Maria Maddalena Altamura, Nunzia Rendina, Maria Nuzzaci, Antonio Scopa

School of Agricultural, Forestry, Food and Environmental Sciences (SAFE), Università degli Studi della Basilicata, Italy.

16.15-16.30 Talk

Title: A central role for zinc in bacterial virulence

Authors: Andrea Battistoni

Department of Biology, University of Rome Tor Vergata, Rome, Italy

16.30-16.45 Talk

Title: TBC

Author: Irina Korichneva

Université de Picardie Jules Verne, Amiens, France

16.45-17.30 Plenary Speaker

Title: Preventing cell division in cancer: think Zinc

Author: Kathy Taylor

Breast Cancer Molecular Pharmacology Group, School of Pharmacy and Pharmaceutical Sciences, Cardiff University, UK

17.30-20.00 Poster with wine and buffet dinner

DAY TWO

8.30-9.00 Registration with Coffee and biscuits

9.00-9.45 Plenary Speaker

Title Mineralomics: a new research perspective

Author: Sergio Bertazzo

Lecturer in Mineralomics, University College London, Department of Medical Physics and Biomedical Engineering

9.45-10.00 Talk

Title: Zinc supplementation induces antigen-specific regulatory T cells by upregulation of Foxp3 and KLF-10, and downregulation of IRF-1 expression

Authors: Martina Maywald and Lothar Rink

Institute of Immunology, Faculty of Medicine, RWTH Aachen University, Aachen, Germany

10.00-10.15Talk

Title: Phosphorylated zip7 as a biomarker for anti-hormone resistant breast cancer

Authors: Silvia Ziliotto, Anna Gobbato, Julia M.W. Gee, Kathryn M. Taylor

Breast Cancer Molecular Pharmacology Group, School of Pharmacy and Pharmaceutical Sciences, Cardiff University, UK

10.15-10.30 Talk

Title: The zinc-binding tubulin polymerization promoting protein tppp/p25 in the retina

Authors: Judit Oláh, Robert G Tripon, Tajwar Nasir, Lajos Csincsik, Judit Ovádi and Imre Lengyel

Institute of Enzymology, Hungarian Academy of Sciences, Budapest, Hungary, Institute of Ophthalmology, University College London, London, UK, Department of Histology, University of Medicine and Pharmacy, Tîrgu Mureş, Romania

10.30-11.00 Coffee Break

11.15-11.30 Talk

Title: In vitro-studies to investigate the impact of mucins on intestinal zinc resorption

Authors: Maares Maria, Duman Ayşe, Keil Claudia, Haase Hajo

Department of Food Chemistry and Toxicology, Technical University of Berlin

11.30-11.45 Talk

Title: Characterisation of the β -cell SLC39A transcriptome

Authors: Rebecca Tarrant, Wolfgang Maret, Christer Hogstrand

King College London, UK



11.45-12.00 Talk

Title: Regulation of endoplasmic reticulum and mitochondrial free Zn²⁺ level with ZIP7 in hyperglycemic cardiomyocytes

Authors: Erkan Tuncay, Verda Bitirim, Aysegul Durak, Gaelle R. J. Carrat, Guy A. Rutter, Belma Turan

Department of Biophysics, Ankara University, Faculty of Medicine, Ankara, Turkey, Section of Cell Biology and Functional Genomics, Division of Diabetes Endocrinology and Metabolism, Department of Medicine, Imperial College London, UK

12.15-13.00 Plenary Speaker

Title: Zinc and Infection and Immunity

Author: Lothar Rink

Institute of Immunology, Faculty of Medicine, RWTH Aachen University, Aachen, Germany

13.00-14.00 Sandwich lunch

14.00- Networking and grant preparation

Poster

Title: Zn(II) complexes with Schiff bases decrease significantly viability and proliferation of human cancer cells

Authors: Radostina Alexandrova¹, Milena Glavcheva¹, Lora Dyakova², Milena Georgieva³, Desislav Dinev¹, Tanya Zhivkova¹, Boyka Andonova-Lilova¹, Abedulkadir Abudalleh¹, George Miloshev³, Gabriela Marinescu⁴, Daniela-Cristina Culita⁴, Luminita Patron⁴, Radostina Alexandrova¹

¹Institute of Experimental Morphology, Pathology and Anthropology with Museum, Bulgarian Academy of Sciences, ²Institute of Neurobiology, Bulgarian Academy of Sciences, ³Institute of Molecular Biology, Bulgarian Academy of Sciences, ⁴Institute of Physical Chemistry "Ilie Murgulescu", Bucharest, Romania

Poster

Title: The ZIP3 and CDF1 transporters, two proteins that allow Leishmania parasites to acquire zinc in a highly regulated way

Authors: Sandra Carvalho¹, Teresa Leão¹, Elyne Backx¹, Ana M. Tomás^{1,2,3}

¹3S - Instituto de Investigação e Inovação em Saúde, Universidade do Porto, Portugal, ²Instituto de Biologia Molecular e Celular, Portugal, ³ICBAS, Instituto de Ciências Biomédicas Abel Salazar, Portugal.

Poster

Title: Molecular mechanisms underlying Zn hyperaccumulation in plants

Authors: Stephan Clemens

University of Bayreuth, Germany

Poster

Title: Intracellular zinc dynamics in the human fungal pathogen *Candida albicans*

Authors: Aaron Crawford, LE Lehtovirta-Morley, Duncan Wilson.

Aberdeen fungal group, MRC centre for Medical Mycology, The School of Medicine, Medical Sciences and Nutrition, University of Aberdeen

Poster

Title: Zinc assimilation by the human fungal pathogen *Candida albicans*

Authors: Aaron Crawford, Laura E Lehtovirta-Morley, Dhara Malavia, Bader Alawfi, Omran Alamir, Duncan Wilson

Aberdeen Fungal Group, MRC Centre for Medical Mycology, School of Medicine, Medical Sciences and Nutrition, University of Aberdeen.

Poster

Title: The effects of zinc supplementation on autophagy in primary human foetal retinal pigment epithelial cells

Authors: Eszter Emri^{1,2}, Lajos Csincsik^{1,2}, Xinyi Yang², János Kriston-Vizi³, Robin Ketteler³ and Imre Lengyel^{1,2}

¹ Centre for Experimental Medicine, School of Medicine, Dentistry and Biomedical Sciences, Queen's University Belfast, United Kingdom; ²Ocular biology and Therapeutics, University College London, London, United Kingdom; ³Bioinformatics Image Core at Laboratory for Molecular Cell Biology, Medical Research Council, University College London, London, United Kingdom

Poster

Title: Dietary zinc intake and risk of type 2 diabetes mellitus: a systematic review and meta-analysis

Authors: J.C. Fernández-Cao, M. Warthon-Medina, V. Hall Moran, V. Arija, L. Serra-Majem and N.M. Lowe

Nutrition and Public Health Unit, Faculty of Medicine and Health Sciences, Universitat Rovira i Virgili, Reus, Spain

Poster

Title: Distribution of Zn and MMP-11 in Breast Cancer Tissues by LA-MS

Authors: María Luisa Fernández Sánchez, Raquel Fernández de Vega, Jorge Pisonero, Noemí Eiró, Francisco J. Vizoso, Uwe Kars and Alfredo Sanz Medel
Department of Physical and Analytical Chemistry, University of Oviedo, Spain

Poster

Title: Biochemical responses and oil quality parameters in olive plants and fruits exposed to airborne zinc pollution

Authors: Radhia Fourati^a, Antonio Scopa^b, Chedlia Ben Ahmed^a, Ferjani Ben Abdallah^a, Roberto Terzano^c, Concetta Eliana Gattullo^c, Ignazio Allegretta^c, Fernanda Galgano^b, Marisa Carmela Caruso^b, Adriano Sofo^{b,*}

^aFaculty of Sciences, University of Sfax, Road of Soukra km 4 - BP n° 802, 3038 Sfax, Tunisia.

^bSchool of Agricultural, Forestry, Food and Environmental Sciences, University of Basilicata, Viale dell'Ateneo Lucano, 10, 85100 Potenza, Italy.

^cDepartment of Soil, Plant and Food Sciences, University of Bari, Via Amendola 165/A, 70126, Bari, Italy.

Poster

Title: Status of plant available zinc and iron and their inputs from irrigation waters into soils cultivated with olive trees in Pylos area, Greece

Authors: Karyotis Th, E. Hatzigiannakis, G. Arampatzis, A. Panagopoulos, S. Stathaki, K. Karyoti, I. Vrouchakis, S. Repas, E. Tziritis, A. Zavra, D. Tsekoura, Ch. Kalogianni

Hellenic Agricultural Organization "Demeter" - Soil and Water Resources Institute, Sindos GREECE

Poster



Title: Free Fatty Acids Alter Plasma Zinc Speciation via an Allosteric Switch on Serum Albumin: Implications for Zinc Bioavailability

Authors: Siavash Khazaipoul,¹ Omar Kassar,¹ Jin Lu,² Adamu H. Adamu,² James P. Barnett,² Claudia A. Blindauer,² Alan J. Stewart¹

¹School of Medicine, University of St Andrews, St Andrews, United Kingdom.

²Department of Chemistry, University of Warwick, Coventry, United Kingdom.

Address correspondence to: sk69@st-andrews.ac.uk

Poster

Title: Photoassimilates mobilization and nutrients accumulation in biofortified grains of *Triticum aestivum* L cv Roxo

Authors: Mara Mourinho¹, Inês Pataco¹, Karliana Oliveira^{1,5}, Inês Ramos⁶, João Pelica¹, Ana S. Almeida², José C. Ramalho^{1,3}, Ana R. Costa², Ana S. Bagulho², Paula Scotti-Campos², José N. Semedo², Benvindo Macãs², José Coutinho², Nuno Pinheiro², Conceição Gomes², Ana Ribeiro^{1,3}, António E. Leitão^{1,3}, Isabel P. Pais², Maria M. Silva⁴, Fernando H. Reboredo¹, Maria F. Pessoa¹, José. P. Santos⁶, Mauro Guerra⁶, Maria L. Carvalho⁶ and Fernando C. Lidon¹

¹GeoBioTec, DCT, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa (FCT/UNL), Caparica, Portugal. ²Unid. Investigação em Biotecnologia e Recursos Genéticos, Inst. Nac. Inv. Agrária e Veterinária, I.P. (INIAV), Oeiras, Portugal. Unidade de Biotecnologia e Recursos Genéticos, Instituto Nacional de Investigação Agrária e Veterinária, I.P. (INIAV), Apartado 6, 7350-591 Elvas/Quinta do Marquês, Av. República, Oeiras, Portugal.

³Grupo Interações Planta-Ambiente & Biodiversidade (PlantStress&Biodiversity), Linking Landscape, Environment, Agriculture and Food, (LEAF), Dept. Recursos Naturais, Ambiente e Território (DRAT), Instituto Superior de Agronomia (ISA), Universidade de Lisboa (ULisboa), Oeiras, Portugal. ⁴ESE Almeida Garrett, Grupo Univ. Lusófona, COFAC, Rua de S. Paulo n.º. 89, Lisbon, Portugal. ⁵Bolsista da CAPES – Processo 153113-1 – CAPES Fundação, Ministério da Educação do Brasil, Brasília-DF 70040-020, Brasil. ⁶Laboratório de Instrumentação, Engenharia Biomédica e Física da Radiação (LIBPhys-UNL), Departamento de Física, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Caparica, Portugal.

Poster

Title: Biofortification of *Triticum aestivum* flour with Zn: implications at a nutritional level

Authors: Mara Mourinho¹, Inês Pataco¹, Karliana Oliveira^{1,5}, João Pelica¹, Ana S. Almeida², José C. Ramalho^{1,3}, Carlos Galhano¹, Ana R. Costa², Ana S. Bagulho², Paula Scotti-Campos², José N. Semedo², Benvindo Macãs², José Coutinho², Nuno Pinheiro², Conceição Gomes², Ana Ribeiro^{1,3}, António E. Leitão^{1,3}, Isabel P. Pais², Maria M. Silva⁴, Fernando H. Reboredo¹, Maria F. Pessoa¹ and Fernando C. Lidon¹

¹GeoBioTec, DCT, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa (FCT/UNL), Caparica, Portugal. ²Unid. Investigação em Biotecnologia e Recursos Genéticos, Inst. Nac. Inv. Agrária e Veterinária, I.P.

(INIAV), Oeiras, Portugal. Unidade de Biotecnologia e Recursos Genéticos, Instituto Nacional de Investigação Agrária e Veterinária, I.P. (INIAV), Apartado 6, 7350-591 Elvas/Quinta do Marquês, Av. República, Oeiras, Portugal. ³Grupo Interações Planta-Ambiente & Biodiversidade (PlantStress&Biodiversity), Linking Landscape, Environment, Agriculture and Food, (LEAF), Dept. Recursos Naturais, Ambiente e Território (DRAT), Instituto Superior de Agronomia (ISA), Universidade de Lisboa (ULisboa), Oeiras, Portugal. ⁴ESE Almeida Garrett, Grupo Univ. Lusófona, COFAC, Rua de S. Paulo n.º. 89, Lisbon, Portugal. ⁵Bolsista da CAPES – Processo 153113-1 – CAPES Fundação, Ministério da Educação do Brasil, Brasília-DF 70040-020, Brasil.

Poster

Title: Assessing post-translational modifications of SLC39A transporters and targeting to prevent cancer growth

Authors: Ogle O, Ziliotto S, Taylor KM

Breast Cancer Molecular Pharmacology Group, School of Pharmacy and Pharmaceutical Sciences, Cardiff University, UK

Poster

Title: Influence of Various Types of Compost on Zinc (Zn) Concentration in Pumpkin (*Cucurbita pepo* L.) Seeds

Authors: Dr. Grazina Palaityte, dr. Erika Kubiliene, dr. Saulius Marcinkonis
Vilniaus kolegija/University of Applied Sciences, Research Council of Lithuania, Vilnius, Lithuania, e.kubiliene@spf.viko.lt

Research location: training nursery garden of Vilniaus kolegija/University of Applied Sciences, Faculty of Agrotechnologies, Lithuania.

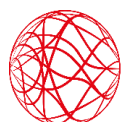
Poster

Title: Deposition of nutrients in biofortified grains and nutritional characteristics of semolina *Triticum durum* cv Marialva

Authors: Inês Pataco¹, Mara Mourinho¹, Karliana Oliveira^{1,5}, Inês Ramos⁶, João Pelica¹, Ana S. Almeida², José C. Ramalho^{1,3}, Ana R. Costa², Ana S. Bagulho², Paula Scotti-Campos², José N. Semedo², Benvindo Macãs², José Coutinho², Nuno Pinheiro², Conceição Gomes², Ana Ribeiro^{1,3}, António E. Leitão^{1,3}, Isabel P. Pais², Maria M. Silva⁴, Fernando H. Reboredo¹, Maria F. Pessoa¹, José. P. Santos⁶, Mauro Guerra⁶, Maria L. Carvalho⁶ and Fernando C. Lidon¹

¹GeoBioTec, DCT, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa (FCT/UNL), Caparica, Portugal. ²Unidade Investigação em Biotecnologia e Recursos Genéticos, Inst. Nac. Inv. Agrária e Veterinária, I.P. (INIAV), Oeiras, Portugal. Unidade de Biotecnologia e Recursos Genéticos, Instituto Nacional de Investigação Agrária e Veterinária, I.P. (INIAV), Apartado 6, 7350-591 Elvas/Quinta do Marquês, Av. República, Oeiras, Portugal.

³Grupo Interações Planta-Ambiente & Biodiversidade (PlantStress&Biodiversity), Linking Landscape, Environment, Agriculture and Food, (LEAF), Dept. Recursos Naturais, Ambiente e Território (DRAT), Instituto Superior de Agronomia (ISA), Universidade de Lisboa (ULisboa),



Oeiras, Portugal. ⁴ESE Almeida Garrett, Grupo Univ. Lusófona, COFAC, Rua de S. Paulo n.º. 89, Lisbon, Portugal. ⁵Bolsista da CAPES – Processo 153113-1 – CAPES Fundação, Ministério da Educação do Brasil, Brasília-DF 70040-020, Brasil. ⁶Laboratório de Instrumentação, Engenharia Biomédica e Física da Radiação (LIBPhys-UNL), Departamento de Física, Faculdade de Ciências e Tecnologia, Universidade Nova de Lisboa, Caparica, Portugal.

Poster

Title: A zinc-gated ion channel controls gut acidity and growth rate in *Drosophila*

Authors: Redhai, Siamak

MRC Clinical Sciences Centre, Imperial College London, UK

Poster

Title: Regulation of coagulation by zinc: characterisation of zinc-dependent heparin neutralisation by fibrinogen and histidine-rich-glycoprotein.

Authors: Amélie I. Sobczak, Kondwani Katundu, Omar Kassar, Claudia A. Blindauer, Alan J. Stewart

School of Medicine, University of St Andrews, St Andrews, United Kingdom

Poster

Title: Characterisation of variability in plasma metabolome in rats fed diets with different level of zinc

Authors: Shaobo Zhou¹, Manfred Beckmann², Ou Ou³, Margaret Gordon³, Guijie Wang¹, John Draper², John Beattie³

¹Institute of Biological and Environmental Science and Technology (iBEST), University of Bedfordshire; ²Institute of Biological, Environmental & Rural Sciences (IBERS), Aberystwyth University; ³Rowett Institute of Nutrition and Health, Aberdeen University.

Poster

Title: Zn²⁺ and Cu²⁺ interactions with cyclam derivatives of cytosine

Authors: Željka Ban Valentina, Ključarić Dijana Saftić, Josipa Matić, Biserka Žinić and Renata Kobetić

Laboratory for Biomolecular Interactions and Spectroscopy, Division of Organic Chemistry and Biochemistry, Ruđer Bošković Institute, Zagreb, Croatia