

European Iron Club Meeting

18–20 June 2026

Trinity College, Dublin

Scientific Innovation • Irish Heritage • Iron Through Time & Society

Scientific Committee

Suzanne Cloonan, Trinity College Dublin

John Ryan, RCSI, Dublin

Heinz Zoller, Innsbruck Medical University

Hal Drakesmith, Oxford

Katarzyna Mleczko-Sanecka, The International Institute of Molecular and Cell Biology in Warsaw

Samira-Lakhal Littleton, Oxford

Lynne Faherty, Trinity College Dublin

Bill Zhang, Weill Cornell Medicine, NYC

Igor Theurl, Innsbruck Medical University and Labor Diagnostik Tirol Innsbruck

Sandro Altamura, Ruprecht-Karls University, Heidelberg

Martina Rauner, University of Dresden

Thursday, June 18

14:00–15:00 — Registration & Welcome Coffee

15:00–16:00 — Cultural Introduction

Speaker: *Eibhlin Colgan, Guinness Archivist, Guinness Storehouse, Dublin*

Title: *“Guinness Is Good for You: Iron, Advertising & Public Health in 1920s–30s Ireland”*

A lively narrative linking Irish history, iron myths, and the intersection of science and public imagination.

16:00–17:00 — Opening Keynote Lecture

Speaker: *Prof. Dan Bradley, Trinity College Dublin*

Title: *“Iron in our Bloodline: Ancestral Hemochromatosis and the Iron Age Genome”*

A compelling scientific keynote that connects ancient population genomics with modern iron phenotypes

17:00–18:00 Lightning Session: Iron at the Crossroads of Heritage & Biology

- Archaeological biomarkers of iron metabolism
- Historical epidemiology of iron intake
- Evolutionary pressures on iron traits

17:10-17:20: Speaker(s) 1: Patient Experience

Speaker: *Margaret Mullet, Irish Hemochromatosis Association IHA*

Patient Representative

Talk Title: *“The Irish Haemochromatosis Experience: Stories, Stigma & Screening”*

17:20-17:35: Speaker 2: Dr Edmund Gilbert, Royal College of Surgeons, Ireland

Talk Title: *“Mapping the Celtic Iron Genome: Haemochromatosis Risk Through Irish Ancestry”*

17:35-17:55: Speaker 3: Prof Valerie Byrnes, University Hospital Galway,

Talk Title: “Coeliac disease and hemochromatosis—at the crossroads of Iron deficiency and iron overload in Ireland”

17.55-18.10 Speaker 4: Prof Elaine Mc Carthy, University College Cork

Talk Title: “Maternal and Infant Iron Nutrition in Ireland: From Pregnancy Screening to Neurodevelopmental Outcomes”

18:10 — Welcome Reception

Sponsored by:

Venue: **Business School Lobby**



Friday, June 19

Full Scientific Day + Bloomsday Event

08:30–17:00 — Scientific Symposia (Full Day)

DAY 1 — THE HOST AS AN IRON LANDSCAPE

08:15–08:30 — Welcome & Opening Remarks

PLENARY BLOCK 1 — Iron Immunometabolism: Where Infection Meets Metabolism

08:30–09:10: —*Plenary Invited Speaker*

Speaker name: Prof. Dave Finlay, Trinity College Dublin

Title: Metabolic Wiring of Immunity: How Nutrient Availability Shapes Immune Cell Fate and Function “Iron, Immunometabolism & the Inflamed Tissue Niche”

09:10–10:20 — Selected Oral Session 1

9:10-9:25: Short talk 1: Tissues Guide Dependence of Regulatory T cells on the Transferrin Receptor, Dr Kelsey Voss, University Of Virginia, USA

9:25-9:40: Short talk 2: Iron Depletion Leads to Decreased Anabolism through Epigenetic Changes and an Increase in the TCA Cycle Independent of HIF Pathway, Prof. Hossein Ardehali, The University of Arizona, USA

9:40-09:55: Short talk 3: Iron Deprivation Counteracts Systemic Autoimmune Inflammation, Ms Dana Costigan, University Of Oxford, UK

9:55-10:10: Short talk 4: Tfr2 limits macrophage inflammatory metabolism by maintaining NAD⁺ homeostasis in intestinal inflammation? Dr Maria G. Ledesma-Colunga, Dresden University Of Technology, Germany

10:10-10:20 -closing remarks-discussion

Coffee Break (10:20–10:50)

PLENARY BLOCK 2 — Iron Homeostasis in Host Defence, Pathogen Restriction, and Cellular Adaptation

10:50–11:30 — *Plenary Invited Speaker*

Prof. Randi Marie Mohus Senior consultant Anesthesiology and Intensive care, St. Olavs hospital, Researcher, Gemini Centre Sepsis Research, NTNU, Trondheim, Norway,

Title: “Iron Status and Infection Susceptibility: Epidemiological Insights from Population-Based Studies”

11:30–12:30 — Selected Oral Session 2

11:30-11:45: Short talk 5: Cellular Iron Deficiency Impairs Mast Cell Development and Degranulation, Ms Hannah Murray, University Of Oxford, UK

11:45-12:00: Short talk 6: Iron deficiency drives metabolic adaptation of red pulp macrophages via ferroportin-SYK signaling and BCAA catabolism to enhance erythrophagocytosis, Prof Katarzyna, Mleczko-Sanecka, International Institute Of Molecular And Cell Biology In Warsaw (IIMCB), Poland

12:00-12:15: Short talk 7: The Battle for Iron between Macrophages and Crohn’s Disease Associated *Escherichia coli*, Mr Hosni Nedjar, Collège de France, France

12:15-12:30: Short talk 8: Mitochondrial Iron Piracy: Fuelling Macrophages to Fail, Dr. Lynne Faherty, Trinity College Dublin, Ireland

12:30-12:45 -closing remarks-discussion

Lunch (12:45-14:00)

Poster Session 1 & Poster Session 2 (13:00–14:00)

PLENARY BLOCK 3 — New Links in Cellular and Systemic Iron Regulation

14:00–14:30 — *Plenary Invited Speaker*

Speaker: Caroline Philpott, NIH, USA

Title: Catastrophic Iron Deficient Crypt Cell Death in Mice Lacking Poly C Binding Proteins 1 and 2 in Intestinal Epithelium

14:30–15:30 — Selected Oral Session 3

14:30-14:45: Short talk 9: FKBP12 Bridges Lipid and Iron Metabolism through BMP SMAD Pathway Inhibition in MASLD, Dr Mariateresa Pettinato, Vita-Salute San Raffaele University, Italy

14:45-15:00: Short talk 10: Functional Inactivation of Duodenal Ferroportin by Hepcidin Drives Iron Dependent Degradation of DMT1 in Lysosomes, Prof Kostas Pantopoulos, Lady Davis, Institute for Medical Research and McGill University, Canada

15:00-15:15: Short talk 11: Distinct Iron Metabolism Regulation during Cachexia Progression in Murine Models of Intestinal and Pancreatic Cancer, Dr Frederic Debre , University Rennes, France,

15:15-15:30: Short talk 12: Mitochondrial iron restriction and ferritin accumulation drive GPRC5A deficiency-mediated ferroptosis resistance in lung adenocarcinoma, Dr ZilingHuang, Department of Pathology, Fudan University Shanghai Cancer Center, China

15:30-15:40 -closing remarks-discussion

Coffee Break (15:40–16:10)

PLENARY BLOCK 4 — Emerging Technologies: Mapping Iron in Space & Time

16:10–16:50 — *Plenary Invited Speakers*

16:10-16:30: Dr Nicole Stoffel; ETH Zurich

Title: *Assessing Human Iron Kinetics Using Stable Iron Isotopic Techniques*

16:30-16:50: Dr Hal Drakesmith, Oxford University

Title: *Single-Cell Iron Quantification: Resolving Iron Homeostasis and Function Across Immune Cell Populations*

16:50-17:05: Short talk 13: Integrated Spatial Isotope Imaging and Transcriptomics Identify Monocyte Derived Macrophages as Drivers of Iron Clearance and Inflammatory Resolution after Hemorrhagic Stroke, Dr Raphael Buzzi, University Of Zurich

17:05-17:20: Short talk 14: Next Generation Hydroxypyridinone–Cy5 Mitochondrial Probe for Non Invasive, Dynamic In Vivo Measurement of Labile Iron, Prof Charareh Pourzand, University Of Bath, UK.

17:20-17:30 -Closing remarks

17:30 — Bloomsday Walking Tour (2h 45m)

Follow some of the wanderings traced out by **Leopold Bloom** more than 100 years ago, walking through segments of Bloom's iconic walk in Dublin on 16th June 1904. See the real-life connections and inspirations James Joyce used in Ulysses including where Bloom enjoyed his lunch of a Gorgonzola sandwich and glass of Burgundy. Let our professional guides take you through the city that inspired Joyce so much.

Pre booking essential - [Book Now!](#)

For those who would like to keep the evening going, we have prepared a guide to some traditional Irish pubs nearby, many of which feature live music to keep the party going. Please see the suggested venues here: [Explore Nearby Pubs with Live Music](#)

Saturday, June 20

Final Scientific Day + Gala Dinner

07:00 — Rusty Run (5 km)

We are happy to introduce the EIC 2026 Rusty Run. A 5K run around Dublin city centre giving you the opportunity to explore the city centre, network with other delegates and have some fun. All fitness levels welcome. More details coming soon to register.

08:30–09:15 -EIC Business Meeting (Invite only)

09:15–17:00 — Scientific Symposia

DAY 2- SYSTEMS-LEVEL IRON BIOLOGY & TRANSLATION

PLENARY BLOCK 5 — The Bone–Blood Axis: From Basic Mechanisms to Clinical Disorders of Blood Formation

09:15–09:45 — *Plenary Invited Speaker*

Speaker: Stefano Rivella- Children's Hospital of Philadelphia (CHOP) Research Institute, USA

Title: Erythroid Control of Systemic Iron: Mechanisms Linking Bone Marrow Niches to Effective and Ineffective Erythropoiesis

09:45–11:05 — Selected Oral Session 5- Iron in Haematopoiesis & Immune Regulation

9:45-10:00: Short talk 15: Deciphering the Pathophysiology of Congenital Dyserythropoietic Anaemia Type IIIb: Clinical and Molecular Characterisation, Prof Mayka Sanchez, Universitat Internacional de Catalunya, Spain

10:00-10:15: Short talk 16: Fibroblast Growth Factor 23 Disruption in Sinusoidal Endothelial Cells Reveals Hematopoietic Phenotypes in Mice, Prof Karin Finberg, Yale School Of Medicine, USA.

10:15-10:30: Short talk 17: Loss of hematopoietic TFR2 enhances erythropoiesis in an erythroid autonomous manner by rewiring cell metabolism. Mr Emanuele Tanzi, San Raffaele University, Italy

10:30-10:45: Short talk 18: Iron Deficiency Anaemia Impairs Bone Health in Mice, Dr Martina Saretto, Medical University Innsbruck, Austria

10:45-11:00: Short Talk 19: Monoferric Transferrin Ameliorates Ineffective Erythropoiesis in MDS Mice, Prof Yelena Ginzberg, Icahn School Of Medicine At Mount Sinai, USA

11:00-11:05 Closing remarks

Coffee Break (11:05–11:30)

PLENARY BLOCK 6 — Organ-Level Iron Dysregulation: Mechanisms of Chronic Disease

11:30–12:10 -Plenary Invited Speaker

Samira Lakhali-Littleton: University of Oxford

Title: Organ-Level Iron Homeostasis: Mechanistic Links to Chronic Cardiovascular and Metabolic Disease

12:10–13:20 — Selected Oral Session 6

12.10-12:25: Short talk 20: Iron Deficiency Anaemia Alters Myocardial Energy Metabolism: Evidence from Experimental Models and Human Imaging. Ms Elke, Pertler, Medical University of Innsbruck, Austria

12:25-12:40: Short talk 21: Myeloid Ferritin Heavy Chain Regulates Iron Mobilization and Drives Anaemia in Chronic Kidney Disease, Ms Chantalle Campbell, Weill Cornell Medicine, USA

12:40-12:55: Short talk 22: Hpcidin in Heart Failure: Pathophysiological Determinants and Prognostic Implications, Dr Nicolò De Biase, University of Pisa, Italy.

12:55-1:10 Short talk 23: Hemolysis Induced Inflammation Aggravates Sickle Hepatopathy by Exacerbating Hepatocyte Fetal Reprogramming and Biliary Injury, Prof. Francesca Vinchi, Emory University School Of Medicine, USA

13:05-13:10 Closing remarks

Lunch (13:15–14:30)

Poster Session 3 & Poster Session 4 (13:30–14:30)

PLENARY BLOCK 6 — Emerging Approaches to Modernising Iron Medicine

14:30–15:10 Plenary Invited Speaker 6

Nicki Panoskaltis, Trinity College Dublin

Title: 3D Hematopoietic Organomics: Capturing Metabolic Shifts to Advance Future Iron Medicine

15:10-15:25 Short talk 24: Therapeutic potential of sevuparin in chronic kidney disease anaemia: synergistic effects with EPO and molecular insights into renal protection, Dr Michela Asperti eCampus University, Novedrate (Como), Italy,

15:25-15:40: Short talk 25: Bioavailability of Newly Developed Plant Derived Heme Iron Compounds in Iron Deficient Women. Ms Salome Häcki, ETH Zurich, Switzerland

15:40-15:55: Short talk 26: Siderophore-Based Probes for Infection Imaging Exploiting a Trojan Horse Strategy in Pathogen Iron Metabolism. Dr Klaudia Szczerba, University of Wroclaw, Poland

15:55-16:10: Short talk 27: Ferric Carboxymaltose Modulates Metabolic and Inflammatory Pathways in Heart Failure (AFFIRM AHF), Dr Niels Grote Beverborg University Medical Center Groningen, The Netherlands

16:10-16:20 -Closing remarks

16:20-16:45: Conference close

18:30/19:00 — Reception Drink with Gala Dinner

Venue: **Trinity College Dublin Dining Hall**

Prebooking required.
