

# European Iron Club Meeting

18–20 June 2026

Trinity College, Dublin

*Scientific Innovation • Irish Heritage • Iron Through Time and 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**

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## **15:00–17:00 Cultural Introduction and Keynote Lecture**

**Chairs:** Prof Suzanne Cloonan, Prof John Ryan

**15:00-15:05 Welcome Address**

**15:05-16:00: Eibhlin Colgan, Guinness Archive & Heritage Manager, Guinness Storehouse, Dublin**

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

## **16:00-17:00: Keynote Lecture**

**Prof Dan Bradley, Trinity College Dublin, Ireland**

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

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

**Chairs:** Pro Domenico Girelli (Italy), Prof John Ryan (Ireland), Prof Nicole Stoffel (Switzerland), Prof Elena Corradini (Italy)

**17:10-17:20: Alice Kelly, Patient Representative, Ireland**

**Title:** *The Irish Haemochromatosis Experience: Stories, Stigma and Screening*

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

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

**17:35-17:55: Prof Valerie Byrnes, University of Galway and University Hospital Galway, Ireland**

**Title:** *Coeliac disease and hemochromatosis—at the crossroads of iron deficiency and iron overload in Ireland*

**17.55-18.10 Prof Elaine Mc Carthy, University College Cork, Ireland**

**Title:** *Maternal and Infant Iron Nutrition in Ireland: From Pregnancy Screening to Neurodevelopmental Outcomes*

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**18:10 — Welcome Reception**

**Sponsored by:**

Venue: **Business School Lobby**



## Friday, June 19

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**Registration will open at 08:00**

### **08:15–17:00 — Scientific Symposia (Full Day)**

**08:15–08:30: Welcome & Opening Remarks-** Prof Suzanne Cloonan, Prof John Ryan

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#### **08:30–10:20: Iron Immunometabolism: Where Infection Meets Metabolism**

**Chairs:** Prof Hal Drakesmith (UK), Dr Katarzyna Mleczko-Sanecka (Poland), Dr Anthony Martinelli (UK)

**08:30–09:10: Plenary Speaker Prof David Finlay, Trinity College Dublin, Ireland**

**Title:** *Metabolic Wiring of Immunity: How Nutrient Availability Shapes Immune Cell Fate and Function*

#### **09:10–10:20 — Selected from Abstracts Oral Session 1**

**9:10-9:25: Dr Kelsey Voss (USA)**

**Title:** *Tissues Guide Dependence of Regulatory T cells on the Transferrin Receptor*

**9:25-9:40: Prof Hossein Ardehali (USA)**

**Title:** *Iron Depletion Leads to Decreased Anabolism through Epigenetic Changes and an Increase in the TCA Cycle Independent of HIF Pathway*

**9:40-09:55: Dana Costigan (UK)**

**Title:** *Iron Deprivation Counteracts Systemic Autoimmune Inflammation*

**9:55-10:10: Dr Maria G. Ledesma-Colunga (Germany)**

**Title:** *Tfr2 limits macrophage inflammatory metabolism by maintaining NAD<sup>+</sup> homeostasis in intestinal inflammation*

*10:10-10:20 -closing remarks/discussion*

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**Coffee Break (10:20–10:50)**

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#### **10:50-12.45: Iron Homeostasis in Host Defence, Pathogen Restriction, and Cellular Adaptation**

**Chairs:** Prof Francesca Vinchi (USA), Prof Heinz Zoller (Austria), Dana Costigan (UK)

**10:50–11:30 — Plenary Speaker Prof Randi Marie Mohus, St. Olavs Hospital, The Norwegian University of Science and Technology, Norway**

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

**11:30–12:30 — Selected from Abstracts Oral Session 2**

**11.30-11:45: Hannah Murray (UK)**

**Title:** *Cellular Iron Deficiency Impairs Mast Cell Development and Degranulation*

**11:45-12:00: Prof Katarzyna, Mleczko-Sanecka (Poland)**

**Title:** *Iron deficiency drives metabolic adaptation of red pulp macrophages via ferroportin-SYK signaling and BCAA catabolism to enhance erythrophagocytosis*

**12:00-12:15: Hosni Nedjar (France)**

**Title:** *The Battle for Iron between Macrophages and Crohn's Disease Associated Escherichia coli*

**12:15-12:30: Dr Lynne Faherty (Ireland)**

**Title:** *Mitochondrial iron piracy by Streptococcus pneumoniae promotes intracellular macrophage persistence in the lung*

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

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**Lunch (12:45-14:00)-Poster Session 1 & Poster Session 2 (13:00–14:00)**

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**14:00-15:40: New Links in Cellular and Systemic Iron Regulation**

**Chairs:** Prof Elizabeta Nemeth (USA), Prof Andrea Steinbicker (Germany), Stefania Cucinelli (Germany)

**14:00–14:30 — Plenary Speaker Prof Caroline Philpott, National Institute of Health, 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 from Abstracts Oral Session 3**

**14:30-14:45: Dr Mariateresa Pettinato (Italy)**

**Title:** *FKBP12 Bridges Lipid and Iron Metabolism through BMP SMAD Pathway Inhibition in MASLD*

**14:45-15:00: Prof Kostas Pantopoulos (Canada)**

**Title:** *Functional Inactivation of Duodenal Ferroportin by Hepcidin Drives Iron Dependent Degradation of DMT1 in Lysosomes*

**15:00-15:15: Dr Frederic Debre (France)**

**Title:** *Distinct Iron Metabolism Regulation during Cachexia Progression in Murine Models of Intestinal and Pancreatic Cancer*

**15:15-15:30: Dr ZilingHuang (China)**

**Title:** *Mitochondrial iron restriction and ferritin accumulation drive GPRC5A deficiency-mediated ferroptosis resistance in lung adenocarcinoma*

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

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**Coffee Break (15:40–16:10)**

**16:00 GROUP PHOTO- Lobby of Business School**

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### Emerging Technologies: Mapping Iron in Space & Time

**Chairs:** Prof Benoit D'Autréaux (France), Prof Michael Zimmermann (UK/Switzerland), Dr Mayra Vera-Aviles (UK)

**16:10–16:50 — Plenary Speakers**

**16:10-16:30: Prof Nicole Stoffel (Switzerland)**

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

**16:30-16:50: Prof Hal Drakesmith (UK)**

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

**16:50-17:20 - Selected from Abstracts Oral Session 4**

**16:50-17:05: Dr Raphael Buzzi (Switzerland)**

**Title:** *Integrated Spatial Isotope Imaging and Transcriptomics Identify Monocyte Derived Macrophages as Drivers of Iron Clearance and Inflammatory Resolution after Hemorrhagic Stroke*

**17:05-17:20: Prof Charareh Pourzand (UK)**

**Title:** *Next Generation Hydroxypyridinone–Cy5 Mitochondrial Probe for Non Invasive, Dynamic In Vivo Measurement of Labile Iron*

**17:20-17:30-** closing remarks/discussion

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**17:30-17:50 — walk to start of Bloomsday Walking Tour (2h 30m)**

- The meeting point is at **5.50PM** at the [The Gate Theatre, Cavendish Row, Parnell Square E, Dublin 1](#)
- Please note the meeting point is a 20 minute walk from Trinity College.
- The tour will last 2 hours and 30 minutes.

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

**07:00 — Rusty Run (5 km)- meet at 182 Pearse St**

Walkers and Runners welcome!

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



*Scan for Route here*

**Registration will open at 09:00**

**09:15–17:00 — Scientific Symposia**

### SYSTEMS-LEVEL IRON BIOLOGY & TRANSLATION

**09:15-11:05-The Bone–Blood Axis: From Basic Mechanisms to Clinical Disorders of Blood Formation**

**Chairs:** Dr Antonella Nai (Italy), Dr Sandro Altamura (Germany), Ruairadhri Jordan (Ireland)

**09:15–09:45 — Plenary Speaker Prof Stefano Rivella, Children’s Hospital of Philadelphia (CHOP) Research Institute, USA**

**Title:** *Erythroid Control of Systemic Iron During Effective and Ineffective Erythropoiesis*

**09:45–11:05 — Selected from Abstracts Oral Session 5**

**9:45-10:00: Prof Mayka Sanchez (Spain)**

**Title:** *Deciphering the Pathophysiology of Congenital Dyserythropoietic Anaemia Type IIIb: Clinical and Molecular Characterisation*

**10:00-10:15: Prof Karin Finberg (USA)**

**Title:** *Fibroblast Growth Factor 23 Disruption in Sinusoidal Endothelial Cells Reveals Hematopoietic Phenotypes in Mice*

**10:15-10:30: Emanuele Tanzi (Italy)**

**Title:** *Loss of hematopoietic TFR2 enhances erythropoiesis in an erythroid autonomous manner by rewiring cell metabolism*

**10:30-10:45: Dr Martina Saretto (Austria)**

**Title:** *Iron Deficiency Anaemia Impairs Bone Health in Mice*

**10:45-11:00: Prof Yelena Ginzburg (USA)**

**Title:** *Monoferric Transferrin Ameliorates Ineffective Erythropoiesis in MDS Mice*

**11:00-11:05** *closing remarks/discussion*

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**Coffee Break (11:05–11:30)**

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**11:30-13:10: Organ-Level Iron Dysregulation: Mechanisms of Chronic Disease**

**Chairs:** Prof Martina Muckenthaler (Germany), Prof Kostas Pantopoulos (Canada), Elke Pertler (Austria)

**11:30–12:10 -Plenary Speaker Prof Samira Lakhali-Littleton, University of Oxford, UK**

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

**12:10–13:20 — Selected from Abstracts Oral Session 6**

**12.10-12:25: Elke Pertler (Austria)**

**Title:** *Iron Deficiency Anaemia Alters Myocardial Energy Metabolism: Evidence from Experimental Models and Human Imaging*

**12:25-12:40: Prof Oleh Akchurin (USA)**

**Title:** *Myeloid Ferritin Heavy Chain Regulates Iron Mobilization and Drives Anaemia in Chronic Kidney Disease*

**12:40-12:55: Dr Niels Grote Beverborg (Netherlands)**

**Title:** *Ferric Carboxymaltose Modulates Metabolic and Inflammatory Pathways in Heart Failure (AFFIRM AHF)*

**12:55-1:10: Prof Francesca Vinchi (USA)**

**Title:** *Hemolysis Induced Inflammation Aggravates Sickle Hepatopathy by Exacerbating Hepatocyte Fetal Reprogramming and Biliary Injury*

**13:05-13:10** *closing remarks/discussion*

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**Lunch (13:15–14:30)-Poster Session 3 & Poster Session 4 (13:30–14:30)**

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**14:30-16:20: Emerging Approaches to Modernising Iron Medicine**

**Chairs:** Prof Laura Silvestri (Italy), Prof Yelena Ginzburg (USA) Prof Robert Fleming (USA)

**14:30–15:10 Plenary Speaker Prof Nicki Panoskaltzis, Trinity College Dublin, Ireland**

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

**15:10–16:10 — Selected from Abstracts Oral Session 7**

**15:10-15:25 Dr Michela Asperti (Italy)**

**Title:** *Therapeutic potential of sevuparin in chronic kidney disease anaemia: synergistic effects with EPO and molecular insights into renal protection*

**15:25-15:40: Salome Häcki (Switzerland)**

Title: *Bioavailability of Newly Developed Plant Derived Heme Iron Compounds in Iron Deficient Women*

**15:40-15:55: Dr Nicolò De Biase (Italy)**

**Title:** *Hepcidin in Heart Failure: Pathophysiological Determinants and Prognostic Implications*

**15:55-16:05 - closing**  
*remarks/discussion*

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**16:05-16:30: Conference close**

**Prof Suzanne Cloonan, Prof John Ryan**

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**19:00 — Reception with Gala Dinner**

Venue: **Trinity College Dublin Dining Hall, Front Square**

Prebooking required

<https://abbey.eventsair.com/eic-2026/dinner-booking>



Scan for location or follow this link  
<https://maps.app.goo.gl/bftUzngcsJRDAXgw5>

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