

BMM7 / Res@cnic-sec / Getting to know CNIC Course

Frontiers in Cardiovascular Research Course 2021-2022

Teams Link: [Haga clic aquí para unirse a la reunión](#)

January 10, 2022

14:30-15:00 Welcome by BMM7 coordinators:
Valentín Fuster, José Javier Fuster, Pilar Martín (CNIC) & Teresa González (UAM)

Form and function of the cardiovascular system

15:00-15:45 Cardiovascular disease: Needs and opportunities for translational research
Héctor Bueno, CNIC

January 11, 2022

14:30-15:15 Cardiovascular risk factors associated with cognitive decline and dementia
Marta Cortés Canteli, CNIC

15:15-16:00 Metabolic disorders: Basic and molecular concepts in obesity and diabetes
Guadalupe Sabio, CNIC

January 12, 2022

16:00-17:30 Anatomy and physiology of the heart (II): Basic concepts in cardiac echocardiography: in situ echocardiogram; interpretation of normal heart and basic anomalies
Inés García Lunar, CNIC

January 13, 2022

15:15-16:00 Providing energy to the heart
José Antonio Enríquez, CNIC

January 14, 2022

14:30-16:00 Developmental biology of the heart I
Antoon Moorman, University of Amsterdam

January 17, 2022

14:30-15:15 Developmental biology of the heart II
José Luis de la Pompa, CNIC

January 18, 2022

15:15-16:00 Angiogenesis and its relevance for cardiovascular disease
Rui Benedito, CNIC

Pathology of the cardiovascular system

January 19, 2022

12:00-13:30 Cardiovascular disease: Present and Future
Valentín Fuster, CNIC

January 20, 2022

14:30-15:15 From drug re-purposing to gene therapy: A personalized approach to treat cardiac arrhythmias
Silvia Priori, CNIC

15:15-16:00 Muscle regeneration and aging: rejuvenating strategies
Pura Muñoz, CNIC

January 21, 2022

14:30-15:15 Pathophysiology of atherosclerosis: Insight gained from experimental models
Jacob Fog Bentzon, CNIC

15:15-16:00 Beyond traditional risk factors: acquired mutations as a shared driver of cardiovascular disease and cancer
José J. Fuster, CNIC

January 24, 2022

14:30-16:00 Translational research in myocardial disease: from ischemia/reperfusion injury to cardio-toxicity
Borja Ibáñez, CNIC

January 25, 2022

- 14:30-15:15 Experimental models in cardiovascular research: Cardiac ischemia
Enrique Lara-Pezzi, CNIC
- 15:15-16:00 Experimental models in cardiovascular research: Lentiviral-mediated gene therapy and mouse models of aortic diseases
Juan Miguel Redondo, CNIC

Cardiovascular genetics

January 31, 2022

- 14:30-15:15 Introduction to cardiovascular genetics
Julián Palomino, Hospital 12 de Octubre
- 15:15-16:00 Functional assessment of genetic variants linked to heart disease
Jorge Alegre-Cebollada, CNIC

Population studies: Genomics, epidemiology and clinical trials

February 1, 2022

- 14:30-15:15 Research and development in medicine: The industry's vision
Savion Gropper, Boehringer Ingelheim Pharma GmbH & Co. KG
- 15:15-16:00 The Fuster-CNIC-Ferrer cardiovascular polypill project: A new paradigm in cardiovascular therapeutics innovation
José M^a Castellano, CNIC

February 2, 2022

- 14:30-15:15 Interpreting statistics in clinical trials
Stuart Pocock, CNIC/London School of Hygiene and Tropical Medicine
- 15:15-16:00 Cardiovascular epidemiology: Descriptive, intervention and health promotion studies
Juan Miguel Fernández Alvira, CNIC

February 3, 2022

- 14:30-15:15 How do cells and tissues sense, adapt and respond to mechanical forces? An emerging perspective in biomedicine
Miguel Ángel del Pozo, CNIC

15:15-16:00 Oral antiplatelet treatment in ACS: From bench to bedside
Antonio Fernández-Ortiz, CNIC

Frontiers in cardiovascular research

February 4, 2022

14:30-15:15 A novel circulating microRNA for the detection of acute myocarditis (NEJM 384:2014-27)
Pilar Martín, CNIC

15:15-16:00 Behavioral immune landscapes of inflammation (Nature, in press)
Andrés Hidalgo, CNIC

Practical Workshops

February 7, 2022

14:30-15:00 Introduction Seminar Microscopy Unit
Valeria Caiolfa, CNIC

15:00-15:30 Cardiovascular disease modelling: culture, differentiation and gene editing in mESC and hiPSC
Giovanna Giovinazzo, CNIC

February 8, 2022

GROUP 1: Cell Culture Room
14:30-15:30 Cardiovascular disease modelling: culture, differentiation and gene editing in mESC and hiPSC
Elisa Santos, Belén Prados, CNIC

GROUP 2: Microscopy Unit 2nd Floor West
14:30-15:30 Advance confocal and live cell microscopy
Verónica Labrador, Alfonso Diaz CNIC

GROUP 1: Microscopy Unit 2nd Floor West
15:30-16:30 Advanced confocal and live cell microscopy
Moreno Zamai, Elvira Arza, Olga Gimenez CNIC

GROUP 2: Cell Culture Room
15:30-16:30 Cardiovascular disease modelling: culture, differentiation and gene editing in mESC and hiPSC
Elisa Santos, Belén Prados, CNIC

February 9, 2022

Sótano -3 – Animal pequeño

GROUP 1:

14:30-15:15 Cardiovascular image: RM
Daniel Calle, CNIC

GROUP 2:

14:30-15:15 Cardiovascular image: PET
Lorena Cussó, CNIC

GROUP 1:

15:15-16:00 Cardiovascular image: PET
Lorena Cussó, CNIC

GROUP 2:

15:15-16:00 Cardiovascular image: RM
Daniel Calle, CNIC

February 10, 2022

Seminar Room 2rd Floor

14:30-16:00 Model systems (II): Zebrafish
Eduardo Díaz, María Galardi, CNIC

February 11, 2022

GROUP 1:

14:30-15:15 Visit Animal Facility
Santiago Rodríguez, CNIC

GROUP 2:

15:15-16:00 Visit Animal Facility
Santiago Rodríguez, CNIC

February 14, 2022

Seminar Room 2nd Floor

14:30-16:00 Model systems (I): mouse-transgenesis
Juan de Dios Hourcade, CNIC

February 15, 2022

Seminar Room 3rd Floor

14:30-16:00 Flow cytometry
Beatriz Álvarez, CNIC

February 16, 2022

Seminar Room 3rd Floor

14:30-16:00 Proteomics
Juan Antonio López, CNIC

February 17, 2022

Seminar Room 3rd Floor

14:30-16:00 Genomics
Ana Quintas, Rebeca Álvarez & Nuria Gómez, CNIC

February 18, 2022

Seminar Room 3nd Floor

14:30-16:00 Bioinformatics and Biostatistics
Fátima Sánchez Cabo, Carlos Torroja, CNIC

BMM7 students presentations

February 25, 2022

Seminar Room 3rd Floor

14:30-16:00 Students presentations

Moderators: José Javier Fuster, Pilar Martín and Teresa González (CNIC-UAM)