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 Mª 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

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, Alfonsa 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 2nd 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 3rd 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)