13:00 The effect of a modified LDL, called electronegative LDL, on cardiomyocytes.
Sonia Benítez (IIB Sant Pau; CIBERDEM, Barcelona, Spain)

13:30-14:30 Lunch time

IV Session (Cell Biology and Physiopathology/ Signalling in Cardiovascular Disease)

Chairpersons: Jose Luis Sánchez Quesada and Noemi Rotllan

14:30 Endothelial cell homeostasis in response to shear stress.
Muriel Laffargue (INSERM, Toulouse, France)
15:00 Genomic studies to inform cardiovascular disease.
Maria Sabater (IIB Sant Pau, Barcelona, Spain)
15:30 PCSK9: A Role below lipid lowering.
Maria Borrell (IIB Sant Pau; CIBERCV, Barcelona, Spain)
16:00 PCSK9 inhibitors alter the distribution of macrophage-derived cholesterol efflux to familial hypercholesterolemia lipoproteins and promote in vivo macrophage-specific reverse cholesterol transport.
Carla Borràs (IIB Sant Pau; CIBERDEM, Barcelona, Spain)

16:15-16:45 Coffee break

16:45 Lipidomics analysis on plasma HDL, LDL, and VLDL purified from atherosclerotic patients with advanced carotid lesions.
Antonio J Lepedda (University of Sassari, Italy)
17:00 Extraction, characterization, and in vitro anticoagulant activity of acidic glycans purified from marine invertebrates.
Giovanni Nieddu (University of Sassari, Italy)

18:00 LIAC Meeting

21:00 Gala Dinner

SATURDAY (October 7th, 2023)

Visit to CAVA in Sant Sadurni d'Anoia

Scientific Organizing Committee

Brigida Bochicchio
(University of Basilicata, Potenza, Italy)
Vicenta Llorente Cortes
(CSIC-IIB Sant Pau; CIBERCV, Barcelona, Spain)
Joan Carles Escolà
(IIB Sant Pau; CIBERDEM, Barcelona, Spain)
Noemi Rotllan
(IIB Sant Pau; CIBERDEM, Barcelona, Spain)
José Luís Sánchez Quesada
(IIB Sant Pau; CIBERDEM, Barcelona, Spain)
José Guerra
(IIB Sant Pau; CIBERCV, Barcelona, Spain)
Lina Badimon
(IIB Sant Pau; CIBERCV, Barcelona, Spain)
Cristina Rodríguez
(IIB Sant Pau; CIBERCV, Barcelona, Spain)

Venue: IIB Sant Pau - Conference Room of the 11th pavillion (antic Convent)
c/Sant Antoni M Claret 167
08025 Barcelona

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Latinorum Investigatorum de Arteriis Colloquium
The Latin Society for Vascular Research

XXXVIII Latinorum Investigatorum de Arteriis Colloquium Research Symposium

4th - 7th October 2023
Barcelona (Spain)

WEDNESDAY (October 4th, 2023)

16:00 OPENING SESSION "Science and Philosophy"
Antonio Mario Tamburro Inaugural Lecture:
Kiss and Run and Social Contacts in Health and Disease.
Carles Enrich (University of Barcelona, Barcelona, Spain)

17:00 Visit "Recinte Modernista Sant Pau Barcelona"

18:30 Wine and Cheese Battle at the entrance of the Pavillion 11th "antic Convent"

THURSDAY (October 5th, 2023)

09:00 IIB Sant Pau Inaugural Lecture
The influence of elastin on vascular cell phenotypes during vessel wall development.
Robert Mecham (Washington University School of Medicine in St.Louis, USA)

I Session (Biomaterials and tissue engineering)

Chairpersons: Valerie Samouillan and Vicenta Llorente.

10:00 Hyaluronan-elastin based scaffolds in vascular tissue engineering: A chemical Approach.
Antonio Laezza (University of Basilicata, Potenza, Italy)
10:30 Elastin-silk based material.
Raul Machado (University of Minho, Portugal)

11:00 Coffee break

11:30 Tissue adhesives based on elastin-like recombinamers.
Sergio Acosta (G.I.R. BIOFORGE, University of Valladolid, Spain)
12:00 Supercharged elastin-like polypeptides with bactericidal properties.
Maria Puertas (G.I.R. BIOFORGE, University of Valladolid, Spain)
12:30 Bioadhesive microcapsules a new cellular treatment for the diffuse cartilage lesions.
Desiré Venegas (G.I.R. BIOFORGE, University of Valladolid, Spain)
12:45 Characterization and validation of the chimeric resilin-elastin-fibroin bioinspired polypeptide as biomaterial for regenerative medicine.
Antonio Vico (G.I.R. BIOFORGE, University of Valladolid, Spain)

13:00 - 14:00 Lunch time

II Session (Biomaterial and Tissue Engineering)

Chairpersons: Brigida Bochicchio and José Carlos Rodríguez Cabello

14:00 Morphological aspects and mechanisms of aging of vascular elastic fibers as revealed by early and recent technological advances - A critical overview.
Michel Spina (Padua University, Italy)
14:30 Textile-reinforced elastin-like recombinamers as a platform for cardiovascular implants.
Alicia Fernández (RWTH Aachen University, Germany)
15:00 Improvement of the aorta elastic properties by a synthetic elastic protein in elastin-haploinsufficient mice.
Gilles Faury (University of Grenoble, France)
15:30 Tissue engineered vessels as tridimensional model for biomechanical in vivo studies.
Èlia Bosch Rué (IIB Sant Pau, Barcelona, Spain)

16:00 Coffe break

16:30 Bioconjugation of carbohydrates to gelatin sponges as improved scaffolds for 3D cell cultures.
Antonietta Pepe (University of Basilicata, Italy)
17:00 3D printing and modelling in Cardiology.
Abdel Hakim Moustafa (IIB Sant Pau, Barcelona, Spain).
17:15 Exploring the interactions of elastin peptides with model membranes by numerical simulations
Manon Ragouilliaux (Reims Champagne-Ardenne University, France)
17:30 Effect of electrostatic interactions on protein coacervates based on elastin-like recombinamers.
Julio Fernández (G.I.R. BIOFORGE, University of Valladolid, Spain)
17:45 In vitro and in vivo evaluation of ELR-based membrane as wound dressing.
Diana Juanes (G.I.R. BIOFORGE, University of Valladolid, Spain)

FRIDAY (October 6th, 2023)

III Session (Cardiovascular Signalling and Modeling)

Chairpersons: Joan Carles Escolà and Sonia Benítez

09:00 Physical and biochemical alterations of heart tissues and lipoproteins induced by hypercholesterolemia; inhibitory effects of the LRP1-based immunotherapy.
Valerie Samouillan (Paul Sabatier University, Toulouse, France)
09:30 Unveiling at nanoscale the elasticity of individual aortic fiber during ageing and pathophysiological conditions: role in aortic stiffness.
Laurent Duca (Reims Champagne-Ardenne University, France)
10:00 Ultrastructural and immunohistochemical detection of hydroxyapatite nucleating role by rRNA and nuclear chromatin derivatives in pro-calcific aortic valve interstitial cell cultures and ex vivo mineralized valve leaflets.
Antonella Bonetti (University of Udine, Italy)
10:30 Targeting cholesteryl ester accumulation in the heart improves cardiac insulin response.
Aleyda Benitez (CSIC, Barcelona, Spain)
11:00 Novel pharmacological approaches in abdominal aortic aneurysm: Insights from NR4A3 transgenic mice.
Cristina Rodríguez (IIB Sant Pau; CIBERCV, Barcelona, Spain)

11:30 Coffee break

12:00 Targeting RhoA isoprenylation and signalling: the cardioprotective power of statins beyond lipid lowering
Gemma Vilahur (IIB Sant Pau; CIBERCV, Barcelona, Spain)
12:30 Novell therapeutic inhibition of miRNAs in an atherosclerosis pre-clinical model.
Noemi Rotllan (IIB Sant Pau; CIBERDEM, Barcelona, Spain)