# Wednesday May 21th

02:00pm - 02:30pm "Introduction and welcoming"

Antoine Muchir, Inserm, Paris, France

## Session | Laminopathic lipodystrophy

Chairs: Giovanna Lattanzi, Estelle Nobécourt

02:30pm – 02:45pm	"LMNA mutations and FPLD – new data" Ferruccio Santini, University Hospital of Pisa, Italy
02:45pm – 03:00pm	"A lipidomic score to reassess BMI in patients with FPLD2" Estelle Nobécourt, CHU de Nancy, France
03:00pm – 03:15pm	"New Developments on FPLD in Men"  David Araújo-Vilar, University of Santiago de Compostela, Spain

03:15pm - 03:30pm	"Sclerostin and bone metabolism in FPLD2"						
	Marie-Christine Vantyghem, Centre Hospitalier Universitaire de Lille,						
	France						

03:30pm – 03:45pm	Epicardial fat in metabolic laminopathies" Sénédicte Gaborit, Aix- Marseille University, Inserm, Marseille, France				
03:45am - 04:20am	Coffee Break and Poster Viewing				

04:20pm - 04:40pm	"Spatial chromatin rearrangement in lipodystrophic laminopathies"
	Philippe Collas, University of Oslo, Norway

04:40pm - 05:00pm	"Molecular signatures, physiological features and response to insult in				
	cells isolated from perifacial adipose tissue of Dunnigan patients"				
	Margherita Maffei, National Council of Research, Pisa, Italy				

05:00pm – 05:20pm	"How adipocytes are lost in FPLD2?"					
	Ormand Macdougald, University of Michigan, United States of America					

05:20pm – 05:40pm	"Metabolic similarities between EDMD and lipodystrophy"
	Eric Schirmer, University of Edinburgh, United Kingdom

05:40pm – 06:00pm	"Lipodystrophy	in	laminopathies:	unraveling	brown	and	white
adipocyte	behavior in relevant body districts"						
	Giovanna Lattanzi, Institute of Molecular Genetics, Bologna, Italy					У	

8:00pm - 11:30pm Conference Gala Dinner

#### Session | Common features among laminopathies

Chair: to be determined

9:00am - 9:15am "DNA double-stranded breaks, a hallmark of aging, defined at the

nucleotide resolution, are increased and associated with transcription

in the cardiac myocytes in LMNA-cardiomyopathy"

Ali J Marian, University of Texas Health Sciences Center, Houston,

United States of America

9:15am - 9:30am "Cardiac metabolic alteration in LMNA cardiomyopathy"

Wilfried LeGoff, Sorbonne University, Inserm, Paris, France

9:30am - 9:45am "Role of lipodystrophy in Hutchinson-Gilford progeria syndrome and

therapeutic opportunities"

Vicente Andres, Centro Nacional de Investigaciones Cardiovasculares

Carlos III (CNIC), Madrid, Spain

9:45am - 10:30am Coffee Break and Poster Viewing

#### Session | Pathogenesis of laminopathies (1)

Chais: Antoine Muchir

10:30am - 10:45am "Vascular alterations in Hutchinson-Gilford progeria syndrome: role of

vascular smooth muscle and endothelial cells"

Ignacio Benedicto, Centro de Investigaciones Biológicas Margarita Salas

(CIB-CSIC), Madrid, Spain, Spain

"Endothelial lamin A/C down regulation drives age associated vascular 10:45am - 11:00am

dysfunction and cardiovascular disease"

Iñigo Ruiz de Lara, Centro Nacional de Investigaciones Cardiovasculares

Carlos III (CNIC), Madrid, Spain

11:00am - 11:15am "Proteome wide identification of the endogenous ADP-ribosylome of

cardiac tissue in LMNA cardiomyopathy"

Deena Marie Lesli Pedrioli, Zurich University, Switzerland

"Splicing alterations in EDMD and different muscular dystrophies" 11:15am - 11:30am

Vanessa Todorow Yale University, Boston, United States of America

"Nuclear envelope alterations in different muscular dystrophies – 11:30am - 11:45am

tertiary nuclear envelopathies?"

Peter Meinke, University of Munich, Germany

11:45am - 12:00pm "Subtype specific iPSC derived cardiomyocytes to unravel distinct cellular and molecular mechanisms of LMNA cardiomyopathy"

Cecilia Thairi, Humanitas Cardio Center, Milan, Italy

12:00pm - 01:15pm Lunch and Poster Viewing

#### Session | Pathogenesis of laminopathies (2)

Chair: Anne Bertrand

01:15pm – 01:30pm "Nuclear and cytosplamic alterations in a Nestor Guillarmo Progeria C.elegans model"

Adrian Fragoso Luna, Universidad Pablo de Olavide, Sevilla, Spain

01:30pm – 01:45pm "Getting to the heart of LMNA dilated cardiomyopathy – identifying early disease drivers through a multi-level transcriptomics approach"

Noam Zurela Sopilniak, Cornell University, Ithaca, NY, USA

**01:45pm – 02:00pm** "Role of POLD1 in HGPS cells"

Camilla Cerchier, Unit of Bologna, Bologna, Italy

02:00pm – 02:15pm "Characterization of cardiac models from an isogenic allelic series of LMNA mutated hiPSC lines generated using the novel and highly efficient targeting platform, STRAIGHT-IN"

Viviana Meraviglia, Leiden University Medical Center (LUMC), 2333 ZA Leiden, The Netherlands

02:15pm – 02:45pm Coffee Break and Poster Viewing

### Session | Clinical phenotypes

Chair: Gisèle Bonne

02:45pm – 03:15pm "Persistent unmet needs in the prevention of sudden death in Laminopathies"

Karim Wahbi, APHP, Paris, France

03:15pm – 03:45pm "OPALE, Obervatory of PAtients with Laminopathies & Emerinopathies: a patient registry for disease natural history and deciphering of Genotype-phenotype relations." Gisèle Bonne, Inserm, Paris, France

03:45pm – 04:15pm "LAMIN: the LMNA mutation registry of North America"

Gabrielle Monaco, Duke University School of Medicine, Durham, USA

**04:15pm – 04:45pm** "Current major development efforts towards the cure for Progeria" Leslie Gordon, Progeria Research Foundation

#### Session | Pathogenesis of laminopathies (3)

Chair: Bruno Cadot

**05:00pm – 05:15pm** "CardioLaminopaty lessons learned: from skin to heart"

Rogier Veltrop, Maastricht University, The Netherlands

05:15pm - 05:30pm "Why is lamin cardiomyopathy a perfect storm for arrythmias"

David Hutchings, University of Manchester, United Kingdom

05:30pm – 05:45pm "Microtubules forces drive nuclear damage in LMNA cardiomyopathy"

Daria Pavlov, Weizmann Institute of Science, Israel

05:45pm - 06:00pm "Tackling nuclear shape abnormalities as therapy in LMNA

cardiomyopathy"

Antoine Muchir, Inserm, Paris, France

Friday May 23rd

### Session | Towards patients

Chair: Rogier Veltrop

09:00am – 09:15am "Targeting inflammatory pathways to ameliorate cellular and

organismal decline in laminopathies"

Susana Gonzalo, Saint Louis University, United States of America

09:15am - 09:30am "CRISPR/cas9 system to correct mutations in EDMD1 patient's cells:

generation of in vitro models to identify biomarkers for EDMD"

Alessandra Recchia, University of Modena and Reggio Emilia, Modena,

Italy

09:30am - 09:45am "An AAV gene therapy functional cure for LMNA dilated

cardiomyopathy"

John Lee, Nuevocor

09:45am - 10:00am "From Screens to Therapeutics: How DREAMS Uses AI to Unlock Drug

Targets and Repositioning Opportunities"

Nicolas Maignan, Kantify

**10:00am - 10:15am** Break

10:15am – 10:30am "Developmental origins of LMNA-cardiomyopathy"

Francesca Rochais, Aix Marseille University, Inserm, Marseille, France

**10:30am – 10:45am** *"Genome editing in LMNA cardiomyopathy"* 

Jean-Sébastien Hulot, Hôpital Européen Georges Pompidou, Paris,

France

# Session | Patient's organizations and round tables

Chair: LMNA cardiac

10:45am - 01:00pm