



28-31 October 2024 Reims, France



12th European Elastin Meeting

Program

Monday 28th 12:00 Registration opened

Opening

Chairs Antonietta PEPE (Potenza, Italy)

Manuel DAUCHEZ (Reims, France)

14:00-14:10 Opening words

Laurent DEBELLE, chair (Reims, France)

14:10-15:00 Opening lecture

Bob MECHAM (Saint Louis, MO, USA)

Paradigm or paradox: What (we think) we know about

elastin.

15:00-15:30 Coffee break

Young Investigators

Chairs: C. Sofia SALAZAR SILVA (Halle, Germany) Manon RAGOUILLIAUX (Reims, France)

Senior researchers are welcome.

Semon researchers are welcome.			
15:30-15:50	Roman KRYMCHENKO (Nijmegen, The Netherlands) Effects of solubilized elastin preparations on in vitro wound healing parameters		
15:50-16:10	C. Sofia SALAZAR SILVA (Halle, Germany) Investigating the regulation of elastogenesis by studying gene expression and crosslinking in an in vitro model system		
16:10-16:30	Manon RAGOUILLIAUX (Reims, France) Domain 36 of tropoelastin interacts with model membranes		
16:30-16:50	Nawara OSMAN (Montréal, Canada) Understanding the vascular pathophysiology caused by the dominant C19F mutation in matrix Gla protein		
16:50-17:10	Camille DEPENVEILLER (Paris, France) Deciphering the dynamic behavior of elastin polypeptides through mesoscopic simulations		
17:10-17:30	Cassie PARKS (Baltimore, USA) Pathogenic variation in fibrillin-2 confers susceptibility to spontaneous cerebrospinal fluid leaks through impairment of cellular adhesion		

Tuesday 29th Fundamental research

Chairs Stéphanie BAUD (Reims, France)

Christian SCHMELZER (Halle, Germany)

08:30-09:10 Plenary lecture

Sylvie RICARD-BLUM (Lyon, France)

Structure and interactions of the cross-linking enzyme lysyl

oxidase and its propeptide

09:10-09:30 Featured communication

Régis POMÈS (Toronto, Canada)

Uncovering the structural and physical basis for the

mechanical properties of elastin

09:30-09:50 Featured communication

Richard WITTEBORT (Louisville, USA)

Elastin Recoil Is Driven by the Hydrophobic Effect

10:00-10:20 Coffee break

10:20-10:40 Oral communication

Uliana BASHTANOVA (Cambridge, UK)

Investigation of elastin structure and dynamics by solid state

NMR in native hydrated extracellular matrix

10:40-11:00 Oral communication

Pascal MAURICE (Reims, France)

Identification of C5aR as a new interaction partner of

membrane sialidase NEU1: potential implication of the elastin receptor complex in the regulation of the complement system

11:00-11:20 Oral communication

Steffen LÜTKE (Cologne, Germany)

Characterization of new functional interactions of hemicentins

within the elastin/fibrillin microfibril network

11:20-11:40 Oral communication

Alexis DAVID (Tours, France)

New selective inhibition mechanism of cathepsin S elastolytic

activity by exopolysaccharides from marine bacteria

11:40-12:00 Oral communication

Sean REICHHELD (Toronto, Canada)

An experimentally determined conformational ensemble reveals atomic-level details of structure and disorder in tropoelastin

12:00-13:15 Lunch

13:15-14:30 Poster session

Elastogenesis and diseases

Chairs	Beth KOZEL (Columbus, OH, USA) Gerhard SENGLE (Cologne, Germany)	
14:30-15:10	Plenary lecture Dieter REINHARDT (Montréal, Canada) Molecular mechanisms of accessory elastogenic proteins	
15:10-15:30	Featured communication Gilles FAURY (Grenoble, France) Pharmacotherapeutic strategies to prevent or cure elastic fiber damages and improve arterial elasticity	
15:30-15:50	Featured communication Gert WENSVOORT (Koekange, The Netherlands) Human C-peptide is a ligand of the elastin receptor complex	
16:00-16:20	Coffee break	
16:20-16:40	Oral communication Carine LE GOFF (Paris, France) Loss of function variants of ADAMTSX involved in a new syndrome related to Marfan syndrome	
16:40-17:00	Oral communication Carmen HALABI (Saint Louis, USA) Cell-specific role of lysyl oxidase in the vasculature	
17:00-17:20	Oral communication Francesco Demetrio LOFARO (Modena, Italy) Calcification of elastin: data from a cell-free model	
17:20-17:40	Oral communication Sara PROCKNOW (Saint Louis, USA) Deletions upstream of eln cause elastin insufficiency	
17:40-18:00	Oral communication Mira Yasemin GÖKYILDIRIM (Giessen, Germany) Lung elastin dysregulation leads to lung emphysema via induction of cell senescence	
18:00-18:10	Patients point of view Marie-Claude BOITEUX (Cutis Laxa Internationale, France)	
19:00	Reception in Reims City Hall	

Wednesday 30 th	Biomaterials and repair		
	Chairs	Katja SCHENKE-LAYLAND (Tübingen, Germany) José Carlos RODRIGUEZ CABELLO (Valladolid, Spain)	
	08:30-09:10	Plenary lecture Christian SCHMELZER (Halle, Germany) Engineering Elastin: a biomimetic approach to materials design	
	09:10-09:30	Featured communication Willeke DAAMEN (Nijmegen, The Netherlands) Designing biomaterials that induce elastic fibre regeneration	
	09:30-09:50	Featured communication Antonietta PEPE (Potenza, Italy) Multicomponent bioactive electrospun scaffold as versatile toolbox for biomedical applications	
	10:00-10:20	Coffee break	
	10:20-10:40	Oral communication Shan LU (London, UK) Effect of elastin-derived peptides on tenocytes behaviour and collagen production	
	10:40-11:00	Oral communication Julio FERNANDEZ-FERNANDEZ (Valladolid, Spain) Molecular interactions governing the assembly and phase behavior of elastin-like recombinamers	
	11:00-11:20	Oral communication Michael SHERRATT (Manchester, UK) Tetra-peptide matrikines modulate epithelial cell migration and gene expression	
	11:20-11:40	Oral communication Elisabeth GARANGER (Pessac, France) Post-modifications of recombinant elastin-like polypeptides towards bioactive (nano)materials and self-assemblies	
	11:40-12:00	Oral communication Desiré VENEGAS BUSTOS (Valladolid, Spain) Advancing regenerative therapies: elastin-like recombinamer hydrogels for degenerative joint diseases	
	12:00-13:00	Lunch	
	13:00-14:00	Poster session	
	14:30-19:00	Social events Visit of VRANKEN-POMMERY domain & Visit of the Notre-Dame cathedral or free afternoon	
	19:00-20:30	Champagne tasting	
	21:00	Gala diner Communications and posters prizes ceremony	

Thursday 31st Workshops for future directions & Young investigators meeting

09:00-10:15 Topic #1 Funding opportunities and networking

Chairs Philippine HENRY (Reims, France)

Laurent DUCA (Reims, France)

10:15-10:45 Coffee break

10:45-12:00 Topic #2 Educational network

Chairs Vanessa FENEUIL (Reims, France)

Michael SHERRATT (Manchester, United Kingdom)

12:00-12:15 Conclusion words

12:15-13:15 Lunch

13:30 Departures

Conference Chair

Laurent DEBELLE, University of Reims Champagne Ardenne, France

International Organizing Committee

Katja SCHENKE-LAYLAND, University of Tuebingen, Germany Brigida BOCHICCHIO, University of Potenza, Italy Michael J. SHERRATT, University of Manchester, United Kingdom José Carlos RODRIGUEZ CABELLO, University of Valladolid, Spain Laurent DEBELLE, University of Reims Champagne Ardenne, France

Local Organizing Committee

Stéphanie BAUD

Nicolas BELLOY

Sébastien BLAISE

Manuel DAUCHEZ

Laurent DEBELLE

Laurent DUCA

Stéphane JAISSON

Jessica JONQUET-PREVOTEAU

Pascal MAURICE

Location

Centre International de Séjour 21 chaussée Bocquaine 51100 Reims, France https://www.cis-reims.com

Site

https://elastin2024.sciencesconf.org/

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matrihealth

matrihealth is a start-up company based in Halle, Germany, focused on producing high-quality elastin and elastin derivatives from natural resources. Our products offer the ideal complement for advanced biomaterials, tissue engineering, and the development of elastin-based products. Our mission is to make elastin accessible to the market at reasonable prices and high quality through an industrial production process to further enable cosmetics, food, and medical applications.