

10th European Elastin Meeting PROGRAM

Thursday June 14, 2018

9:00	Opening registration desk and coffee	
9:30	Welcome by dean of Radboud university medical center	Prof.dr. Paul Smits
	Welcome by conference chair	Willeke Daamen PhD
9:50-12:00	Biomaterials & regenerative medicine	Chair: Anand Ramamurthi
9:50-10:20	<i>In vitro</i> assessment of pro-elastogenic and homing properties of BM-MSCs derived smooth muscle cells (BM-SMCs) for AAA therapy	Anand Ramamurthi
10:20-10:40	Immobilized elastin-like recombinamers for smart cell harvesting	Marcos Herrero
10:40-11:00	Making and changing nanoparticles with elastin-like recombinamers for nanomedicine	Jan Pille
11:00-11:20	Biphasic ELR-based matrix for the regeneration of osteochondral lesions: The harmonization of matrix resorption to the different metabolic activity of the embedded cell type	Carlos Rodríguez-Cabello
11:20-11:40	Elastin targeted nanoparticles reverse arterial calcification <i>in vitro</i>	Yvonne Nitschke
11:40-12:00	Elastin-like recombinamer as mucoadhesive: <i>in vitro</i> and <i>in vivo</i> characterization	Alessandra Girotti
12:00-13:10	Lunch	
13:10-15:00	Cellular signaling	Chair: Gerhard Sengle
13:10-13:40	BMP driven mechanisms in aortic aneurysm formation caused by fibrillin-1 deficiency	Gerhard Sengle
13:40-14:00	The elastin receptor complex interacts with CD36 through NEU1 and regulates oxidized LDL uptake in macrophages: potential implication in the proatherogenic effects of elastin-derived peptides	Sébastien Blaise
14:00-14:20	PGC1 α regulates decreased mitochondrial respiration in aneurysmal aortas of fibulin-4 mutant mice	Jeroen Essers
14:20-14:40	Elastin-derived peptides, new factor to promote the development of non-alcoholic steatohepatitis	Sébastien Blaise
14:40-15:00	Fibulin-4 deficiency differentially affects TGF β signaling as well as cytoskeleton structure and dynamics	Joyce Burger
15:00-16:00	Poster session & Tea	
16:00-17:30	Radboud Research Round Plus Keynote speaker	Chairs: Willeke Daamen & Daniela Quaglino
16:00-17:00	Analytical characterization of extracellular matrix with a focus on elastin	Kirk Hansen
17:00-17:30	College Tour	Kirk Hansen
17:30-18:30	Research Café	

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Friday June 15, 2018

9:00 Opening registration desk and coffee

9:30-12:00 Development & Pathology Chair: Zsolt Urban

9:30-10:00	Zebrafish elastin A and elastin B are required for cardiac valve development and juvenile survival	Zsolt Urban
10:00-10:20	Generation and validation of the first complete knockout model of ABCC6a in zebrafish	Matthias van Gils
10:20-10:40	Fibulin-4 and lysyl oxidase in vascular disease	Carmen Halabi
10:40-11:00	Microenvironmental regulation of muscle homeostasis by supramolecular collagen VI and fibrillin-2 networks	Katrin Hildebrandt
11:00-11:20	Mutations in ATP6V1E1 or ATP6V1A cause autosomal recessive cutis laxa	Thatjana Gardeitchik
11:20-11:40	New insights in the pathogenesis of elastic fiber calcification in β -thalassemia patients	Daniela Quagliano
11:40-12:00	Defining the proteomes of healthy and aneurysmal human aorta	Julia Lopez-Guimet

12:00-13:10 Lunch

13:10-15:00 (Supra)molecular structure of elastic fibers Chair: Clair Baldock

13:10-13:40	The structure and regulation of latent TGF β by LTBP1 and fibrillin	Clair Baldock
13:40-14:00	The remarkable sequence conservation of amniote tropoelastins: Important lessons for the sequence-structure-function relationship of elastins	Fred Keeley
14:00-14:20	Molecular mechanisms of tropoelastin's elasticity	Priya Pillai
14:20-14:40	Matrix Metalloproteinases: The fibrillin microfibril clean-up crew?	Sarah Hibbert
14:40-15:00	Coarse-grained model of human tropoelastin assembly	Anna Tarakanova

15:00-16:00 Poster session & Tea

16:00-17:50 Elastic fiber assembly Chair: Dieter Reinhardt

16:00-16:30	Functional relevance of fibulin-4 interactions with latent transforming growth factor β binding protein-4 in the context of fibrillin-1 and fibronectin	Dieter Reinhardt
16:30-16:50	Molecular and supramolecular studies of human tropoelastin sequences	Brigida Bochicchio
16:50-17:10	Allysine in tropoelastin dynamics and assembly	Jazmin Ozsvar
17:10-17:30	Microfibrillar associated protein type 4 (MFAP4) associates with aortic dissection in Marfan syndrome and is essential for elastic fiber assembly	Shaynah Wanga
17:30-17:50	Chronic minoxidil treatment leads to functional improvement and elastic fiber neosynthesis in the aorta of aged mice only, not of adults	Gilles Faury

19:00

Conference dinner at Huize Heyendaal

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Saturday June 16, 2018

9:00

Opening registration desk and coffee

9:30-12:00

Regenerative Medicine

Chair: Tony Weiss

9:30-10:00

Leveraging tropoelastin to accelerate skin wound repair

Tony Weiss

10:00-10:20

Interface tunable elastin-like recombinamer membranes

Miguel
González-Pérez

10:20-10:40

JNK-2 gene silencing multifunctional nanoparticles for augmented vascular elastic matrix regenerative repair

Anand Ramamurthi

10:40-11:00

Raman imaging of elastic fibers and microfibrils

Eva Brauchle

11:00-11:20

Hydrophobic cholesteryl moieties trigger substrate cell-membrane interaction of elastin-mimetic protein coatings *in vitro*

Leander Poocha

11:20-11:40

Elastogenesis in materials-driven heart valve regeneration: The role of macrophages

Anthal Smits

11:40-12:00

Awards and Closing address

Willeke Daamen

12:00-13:00

Lunch



10th European Elastin Meeting

14-16 June **2018**
Nijmegen, The Netherlands

Congress secretariat:
Radboud university medical center
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Chair: Willeke Daamen
Radboud university medical center

Vice chair: Daniela Quaglino
University of Modena and Reggio Emilia

www.radboudumc.nl/elastin2018



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