

Intermediate Filaments

Gordon Research Conference

Intermediate Filaments as the Platform to Underpin the "Social Network" of Cells and Tissues

June 24-29, 2018

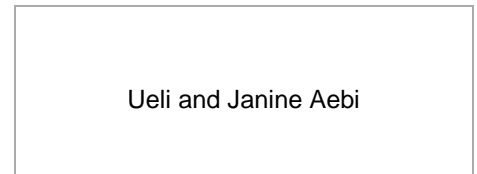
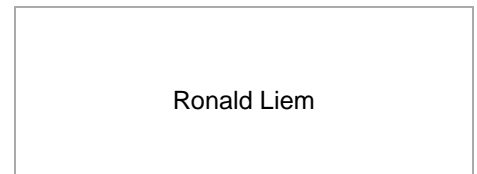
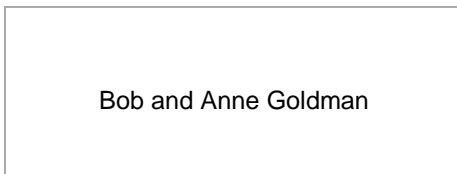
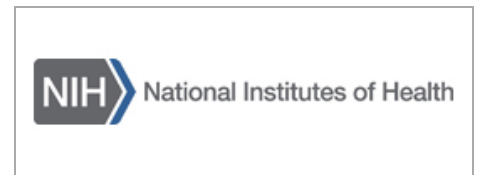
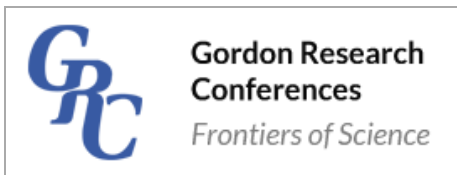
Renaissance Tuscany Il Ciocco

Lucca (Barga), Italy

Chair: Milos Pekny

Vice Chairs: Jan Lammerding and Roy A. Quinlan

Contributors



Meeting Program

Sunday

- 4:00 pm - 8:00 pm Arrival and Check-in
- 6:00 pm Dinner
- 7:30 pm - 7:40 pm Welcome / Introductory Comments by GRC Site Staff
- 7:40 pm - 9:30 pm **IFs as Critical Regulators in Health and Disease**
- Discussion Leaders: **Milos Pekny** (University of Gothenburg, Sweden) and **Diana Toivola** (Åbo Akademi University, Finland)
- 7:40 pm - 8:00 pm Introduction by Discussion Leader: IFs in Health and Disease: Unifying Themes, Emerging Concepts
- 8:00 pm - 8:25 pm **Pierre Coulombe** (University of Michigan, USA)
"Newly Defined Roles for Keratins in and Around the Nucleus"
- 8:25 pm - 8:35 pm Discussion
- 8:35 pm - 9:00 pm **Valerie Weaver** (University of California, San Francisco, USA)
"Tissue Rheology in Disease Pathogenesis"
- 9:00 pm - 9:10 pm Discussion
- 9:10 pm - 9:30 pm General Discussion

Monday

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 12:30 pm **CNS: IFs in Neurodegeneration, Neuroplasticity and Regeneration**
- Discussion Leader: **Sandrine Etienne-Manneville** (Institut Pasteur, CNRS, France)
- 9:00 am - 9:15 am **Tracy Hagemann** (University of Wisconsin-Madison, USA)
"Targeting GFAP as a Treatment Strategy in Alexander Disease"
- 9:15 am - 9:25 am Discussion
- 9:25 am - 9:40 am **Elly Hol** (Brain Center Rudolf Magnus, UMC Utrecht, The Netherlands)
"GFAP and Reactive Gliosis in Neurodegenerative Diseases"
- 9:40 am - 9:50 am Discussion
- 9:50 am - 10:05 am **Ulrika Wilhelmsson** (University of Gothenburg, Sweden)
"Astrocyte IFs as a Target in Neurodegenerative Diseases"
- 10:05 am - 10:15 am Discussion
- 10:15 am - 10:45 am Coffee Break
- 10:45 am - 11:00 am **Ming-Der Perng** (National Tsing Hua University, Taiwan)
"Posttranslational Regulation of GFAP and Stress Responses in Neurodegeneration"
- 11:00 am - 11:10 am Discussion

- 11:10 am - 11:20 am **Rachel Battaglia** (University of North Carolina at Chapel Hill School of Medicine, USA)
"Aberrant Processing of GFAP in Alexander Disease"
- 11:20 am - 11:25 am Discussion
- 11:25 am - 11:40 am **Robert Zorec** (University of Ljubljana, Slovenia)
"Cytoplasmic IFs and Vesicle Trafficking in Astrocytes"
- 11:40 am - 11:50 am Discussion
- 11:50 am - 12:00 pm **Dolores Perez-Sala** (Consejo Superior de Investigaciones Científicas (CSIC), Spain)
"GFAP as an Antenna Sensing the Oxidative Stress"
- 12:00 pm - 12:05 pm Discussion
- 12:05 pm - 12:20 pm **Ronald Liem** (Columbia University, USA)
"Abnormal Neurofilament Inclusions in Neuropathies"
- 12:20 pm - 12:30 pm Discussion
- 12:30 pm Lunch
- 1:30 pm - 4:30 pm Free Time
- 3:00 pm - 4:00 pm Power Hour
- The GRC Power Hour is an optional informal gathering open to all meeting participants. It is designed to help address the challenges women face in science and support the professional growth of women in our communities by providing an open forum for discussion and mentoring.*
- Organizer: **Cecilia Sahlgren** (Åbo Akademi University, Finland)
- 4:30 pm - 6:00 pm Poster Session
- 6:00 pm - 8:00 pm **Intermediate Filaments, the Immune System and Repair**
- Discussion Leaders: **Natasha Snider** (University of North Carolina at Chapel Hill, USA) and **Birgit Lane** (Skin Research Institute of Singapore, Singapore)
- 6:00 pm - 6:15 pm **Nirit Mor-Vaknin** (University of Michigan, USA)
"The Two-Edged Sword of Inflammation: Connection to IFs"
- 6:15 pm - 6:25 pm Discussion
- 6:25 pm - 6:45 pm **Andrei Gudkov** (Roswell Park Comprehensive Cancer Center, USA)
"Secreted Vimentin as a Biomarker of Senescence and Its Recognition by Innate Immune System"
- 6:45 pm - 6:55 pm Discussion
- 6:55 pm - 7:05 pm **Martin Gregor** (Institute of Molecular Genetics of the ASCR, v.v.i., Czech Republic)
"Plectin Controls Intestinal Epithelial Barrier"
- 7:05 pm - 7:10 pm Discussion
- 7:10 pm - 7:20 pm **Georgia Schäfer** (University of Cape Town, South Africa)
"Non-Filamentous Vimentin Protein Binds to HPV16 Pseudovirions and Dampens Infection in a Murine Model"
- 7:20 pm - 7:25 pm Discussion

7:25 pm - 7:35 pm	Franziska Lautenschlaeger (Leibniz Institute for New Materials, Germany) "The Role of Vimentin in Leukocyte Amoeboid Migration"
7:35 pm - 7:40 pm	Discussion
7:40 pm - 7:55 pm	Rudolf Leube (RWTH Aachen University, Germany) "Assembly, Disassembly and Transport of Keratin Intermediate Filaments"
7:55 pm - 8:00 pm	Discussion
8:00 pm	Dinner

Tuesday

7:30 am - 8:30 am	Breakfast
8:30 am	Group Photo
9:00 am - 12:30 pm	Intermediate Filaments in Cell Differentiation, Adhesion, Migration and Senescence Discussion Leaders: Karen Ridge (Northwestern University, USA) and John Eriksson (Turku Centre for Biotechnology / University of Turku / Åbo Akademi University, Finland)
9:00 am - 9:15 am	Robert Goldman (Northwestern University, USA) "IFs: Modulators of Stress Responses and Cell Energetics in Critical Times"
9:15 am - 9:25 am	Discussion
9:25 am - 9:40 am	Masaki Inagaki (Mie University School of Medicine, Japan) "Vimentin and Desmin Phosphorylation: Implications for Ontogenesis and Diseases"
9:40 am - 9:50 am	Discussion
9:50 am - 10:00 am	Joe Swift (Wellcome Trust Centre for Cell-Matrix Research, United Kingdom) "Mechanosensitivity of Mesenchymal Stem Cells (MSCs) Is Abrogated in Senescence, Coincident with Changes at the Nuclear Lamina"
10:00 am - 10:05 am	Discussion
10:05 am - 10:35 am	Coffee Break
10:35 am - 10:45 am	Susana Gonzalo (Saint Louis University, USA) "Mechanisms Underlying Genomic Instability in Laminopathies"
10:45 am - 10:50 am	Discussion
10:50 am - 11:00 am	Emma van Bodegraven (Brain Center Rudolf Magnus, UMC Utrecht, The Netherlands) "GFAP Alternative Splicing in Astrocytoma and MAPLK Signaling"
11:00 am - 11:05 am	Discussion
11:05 am - 11:15 am	Pascale Bomont (Institute for Neurosciences of Montpellier (INM), France) "Fish-ing for Neurofilament Dynamics in Disease"
11:15 am - 11:20 am	Discussion
11:20 am - 11:35 am	Sandrine Etienne-Manneville (Institut Pasteur, CNRS, France) "IFs, the Rest of the Cytoskeleton and Migration"
11:35 am - 11:45 am	Discussion

11:45 am - 12:00 pm	Cecilia Sahlgren (Åbo Akademi University, Finland) "Vimentin Regulation of Notch Signaling During Vascular Remodeling"
12:00 pm - 12:10 pm	Discussion
12:10 pm - 12:30 pm	Poster Previews
12:30 pm	Lunch
1:30 pm - 4:30 pm	Free Time
4:30 pm - 6:00 pm	<u>Poster Session</u>
6:00 pm - 8:00 pm	Heart and Muscle Control in Human Diseases
	Discussion Leaders: Elly Hol (Brain Center Rudolf Magnus, UMC Utrecht, The Netherlands) and Rudolf Leube (RWTH Aachen University, Germany)
6:00 pm - 6:15 pm	Gisele Bonne (Sorbonne Université / INSERM UMRS974, France) "Laminopathies: Unveiling the Pathophysiology"
6:15 pm - 6:25 pm	Discussion
6:25 pm - 6:40 pm	Howard Worman (Columbia University, USA) "Lamins in Cardiomyopathies: Partners, Interactions, Mechanisms and Model Interventions"
6:40 pm - 6:50 pm	Discussion
6:50 pm - 7:00 pm	Tyler Kirby (Cornell University, USA) "Lamin Mutations Cause Mechanically-Induced Nuclear Envelope Rupture and DNA Damage in Muscle Fibers"
7:00 pm - 7:05 pm	Discussion
7:05 pm - 7:15 pm	Delphine Larrieu (University of Cambridge, United Kingdom) "NAT10 Inhibition Normalizes HGPS Cells by Rebalancing the Transportin-1 Nuclear Import Pathway"
7:15 pm - 7:20 pm	Discussion
7:20 pm - 7:30 pm	Giulio Agnetti (Johns Hopkins University, USA) "Desmin Aggregation and O-GlcNacylation in Ischemia Reperfusion Injury"
7:30 pm - 7:35 pm	Discussion
7:35 pm - 7:45 pm	Brian Russo (Massachusetts General Hospital, USA) "Intermediate Filaments Activate a Bacterial Secretion System"
7:45 pm - 7:50 pm	Discussion
7:50 pm - 8:00 pm	General Discussion
8:00 pm	Dinner

Wednesday

- 7:30 am - 8:30 am Breakfast
- 9:00 am - 12:30 pm **Regulating the Cell Microenvironment and Mechanotransduction**
- Discussion Leaders: **Jan Lammerding** (Cornell University, USA) and **Clarissa Koch** (Northwestern University, USA)
- 9:00 am - 9:20 am **Kristian Franze** (University of Cambridge, United Kingdom)
"Soft or Stiff? Determinants and Consequences of Tissue-Dependent Rheological Properties of Scars"
- 9:20 am - 9:30 am Discussion
- 9:30 am - 9:50 am **Yosef Gruenbaum** (Hebrew University of Jerusalem, Israel)
"Rheology of Cell Nucleus: From Physics to Understanding Disease Mechanisms"
- 9:50 am - 10:00 am Discussion
- 10:00 am - 10:15 am **Dennis Discher** (University of Pennsylvania, USA)
"Mechanosensing of Cell Nucleus in Development and When Things Go Wrong"
- 10:15 am - 10:25 am Discussion
- 10:25 am - 10:55 am Coffee Break
- 10:55 am - 11:05 am **Oscar Stassen** (Eindhoven University of Technology, The Netherlands)
"Vimentin and Notch Signalling in the Regulation of Vascular Homeostasis"
- 11:05 am - 11:10 am Discussion
- 11:10 am - 11:20 am **Laura Virtanen** (University of Turku, Finland)
"Modelling of LMNA-Related Dilated Cardiomyopathy with iPSC-Derived Cardiomyocytes"
- 11:20 am - 11:25 am Discussion
- 11:25 am - 11:40 am Late-Breaking Topic
- 11:40 am - 11:50 am Discussion
- 11:50 am - 12:05 pm **Eric Schirmer** (University of Edinburgh, United Kingdom)
"Lamin A Molecular Compression and Sliding as Mechanisms Behind Nucleoskeleton Elasticity"
- 12:05 pm - 12:15 pm Discussion
- 12:15 pm - 12:30 pm Poster Previews
- 12:30 pm Lunch
- 1:30 pm - 4:30 pm Free Time
- 4:30 pm - 6:00 pm Poster Session

6:00 pm - 8:00 pm	From Intermediate Filament Structure to Diseases
	Discussion Leaders: Gisele Bonne (Sorbonne Université / INSERM UMRS974, France) and Thomas Magin (Leipzig University, Germany)
6:00 pm - 6:15 pm	Roland Foisner (Medical University of Vienna, Austria) "Lamins and Chromatin Organization"
6:15 pm - 6:25 pm	Discussion
6:25 pm - 6:35 pm	Luke Lairson (The Scripps Research Institute, USA) "A Vimentin Targeting Small Molecule Induces Mitotic Catastrophe in Mesenchymally Transformed Cancers"
6:35 pm - 6:40 pm	Discussion
6:40 pm - 6:50 pm	Joel Nyström (Åbo Akademi University, Finland) "Loss of Keratin 8 Induces Deregulation of Caveolin-1 and Diminished Caveolar and Mitochondrial Ca ²⁺ Responses in Colonic Epithelial Cells"
6:50 pm - 6:55 pm	Discussion
6:55 pm - 7:10 pm	Pavel Hozak (Institute of Molecular Genetics of the ASCR, v.v.i., Czech Republic) "Lipid-Containing Nuclear Structures in Genome Regulation"
7:10 pm - 7:20 pm	Discussion
7:20 pm - 7:30 pm	Justin Jacob (Johns Hopkins Bloomberg School of Public Health, USA) "Keratin 17: A Novel Regulator of Nuclear Morphology and Chromatin Organization"
7:30 pm - 7:35 pm	Discussion
7:35 pm - 7:50 pm	Ohad Medalia (University of Zurich, Switzerland) "Nuclear Lamins: Deciphering the Structure Helps to Infer the Function"
7:50 pm - 8:00 pm	Discussion
8:00 pm	Dinner

Thursday

7:30 am - 8:30 am	Breakfast
8:30 am - 9:00 am	<u>Business Meeting</u> <i>Nominations for the Next Vice Chair; Fill in Conference Evaluation Forms; Discuss Future Site and Scheduling Preferences; Election of the Next Vice Chair</i>
9:00 am - 12:30 pm	Intermediate Filament Biology: Connecting the Laboratory with the Clinic
	Discussion Leaders: Yosef Gruenbaum (Hebrew University of Jerusalem, Israel) and Ming-Der Perng (National Tsing Hua University, Taiwan)
9:00 am - 9:15 am	John Eriksson (Turku Centre for Biotechnology / University of Turku / Åbo Akademi University, Finland) "IFs as Determinants of Cellular Organization, Migration and Wound Healing"
9:15 am - 9:25 am	Discussion

- 9:25 am - 9:40 am **Karen Ridge** (Northwestern University, USA)
"Vimentin and the Innate Immunity"
- 9:40 am - 9:50 am Discussion
- 9:50 am - 10:05 am **Natasha Snider** (University of North Carolina at Chapel Hill, USA)
"Pharmacological Targeting of IFs"
- 10:05 am - 10:15 am Discussion
- 10:15 am - 10:45 am Coffee Break
- 10:45 am - 11:00 am **Birgit Lane** (Skin Research Institute of Singapore, Singapore)
"Targeting Keratins in Skin Diseases"
- 11:00 am - 11:10 am Discussion
- 11:10 am - 11:25 am **Pavel Strnad** (University Hospital Aachen, Germany)
"Keratins in Liver Diseases"
- 11:25 am - 11:35 am Discussion
- 11:35 am - 11:45 am **Sophie Zinn-Justin** (CEA, France)
"A Molecular Description of the Interaction Between Lamin A/C, Emerin, BAF and DNA"
- 11:45 am - 11:50 am Discussion
- 11:50 am - 12:00 pm **Clarissa Koch** (Northwestern University, USA)
"Vimentin Is Required for the Innate Immune Response Following Influenza A Virus Infection"
- 12:00 pm - 12:05 pm Discussion
- 12:05 pm - 12:30 pm Poster Previews
- 12:30 pm Lunch
- 1:30 pm - 4:30 pm Free Time
- 4:30 pm - 6:00 pm Poster Session
- 6:00 pm - 8:00 pm **Metabolic Regulation, Mitochondria and Intermediate Filaments**
Discussion Leaders: **Pascale Bomont** (Institute for Neurosciences of Montpellier (INM), France) and **Oscar Stassen** (Eindhoven University of Technology, The Netherlands)
- 6:00 pm - 6:15 pm **Yassemi Capetanaki** (Biomedical Research Foundation, Academy of Athens, Greece)
"Desmin and the Control of Mitochondrial Homeostatis"
- 6:15 pm - 6:25 pm Discussion
- 6:25 pm - 6:40 pm **Thomas Magin** (Leipzig University, Germany)
"Kelch Proteins as Caretakers of Keratins During Tissue Homeostasis and Disease"
- 6:40 pm - 6:50 pm Discussion

6:50 pm - 7:00 pm	Jasmine Robinson (University of North Carolina at Chapel Hill, USA) "Widespread Accumulation and Aggregation of IF Proteins During Mammalian Aging and Partial Reversal by Lifelong Caloric Restriction"
7:00 pm - 7:05 pm	Discussion
7:05 pm - 7:15 pm	Fang Cheng (Sun Yat-Sen University, China / Åbo Akademi University, Finland) "The Role of Vimentin in Lipid Metabolism"
7:15 pm - 7:20 pm	Discussion
7:20 pm - 7:35 pm	Diana Toivola (Åbo Akademi University, Finland) "Keratins and Mitochondrial Morphology, Motility and Function"
7:35 pm - 7:45 pm	Discussion
7:45 pm - 8:00 pm	General Discussion
8:00 pm	Dinner

Friday

7:30 am - 8:30 am	Breakfast
9:00 am	Departure

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Poster List

All posters can be displayed simultaneously throughout the conference week. Display your poster at the board # indicated below. If your name does not appear in the list, display your poster at the next available board. There is plenty of space available for additional posters.

#	Name	Organization	Co-Authors	Poster Title
1	Agnetti, Giulio	Johns Hopkins University	Koen Raedschelders ¹ , Steven An ² , Natasha Zachara ² , Silvia Cetrullo ³ , Stefania D'Adamo ³ , Flavio Flamigni ³ , Jennifer Van Eyk ¹ , David Graham ² , Giulio Agnetti ^{2,3} 1Cedar-Sinai Hopsital, Beverly Hills, CA,	Desmin aggregation and O-GlcNacylation in ischemia reperfusion injury
2	Antfolk, Daniel J.M.	Åbo Akademi	Marika Sjöqvist, Adolfo Rivero-Muller, Fang Cheng, Nicole van Engleand, Oscar Stassen, Kimmo Isoniemi, Camille Duran, Rasmus Niemi, Carlijn Bouten, Kayla Bayless, John Eriksson, Cecilia Sahlgren	Vimentin regulates Notch signaling during angiogenesis
3	Battaglia, Rachel A	University of North Carolina at Chapel Hill School of Medicine	Rachel Battaglia, Parijat Kabiraj, Karina Kinghorn, Laura Herring and Natasha Snider	Functional crosstalk between phosphorylation and caspase proteolysis underlie aberrant processing of GFAP in Alexander Disease and reveal CK2 as a novel disease target
4	Bomont, Pascale L	Institute for Neurosciences of Montpellier (INM)	Bomont P. Lescouzeres L. and Mysiak K. Atip-Avenir team, INSERM-U1051, INM, Montpellier University, France. pascale.bomont@inserm.fr	Fish-ing for Neurofilament dynamics in disease
5	Cheng, Fang	Åbo Akademi University & SYSU	Meng Wang, Arun Venu, Simon Pfisterer, Elina Ikonen, Karen Ridge, Robert Goldman, John Eriksson	The role of vimentin in lipid metabolism
6	Crasto, Silvia	Institute of Genetic and Biomedical Research, National Research Council (IRGB-CNR,)Milan Unit	Silvia Crasto ^{1,2} , Nicolò Salvarani ² , Michele Miragoli ^{2, 3} , Marianna Paulis ^{1,2} , Alessandro Bertero ⁴ , Marta Mazzola ¹ , Alberto Forni ⁵ , Matteo Dal Ferro ⁶ , Paolo Kunderfranco ¹ , Aleksandra Kostina ⁷ , Anna Ma	iPSC cardiac models of laminopathies: Investigation of morphological, functional and molecular defects
7	Cusseddu, Davide	University of Sussex	Stephanie Portet, Anotida Madzvamuse	TBD
8	de Leeuw, Rebecca	University of Zurich	Rebecca de Leeuw, Yosef Gruenbaum, Ohad Medalia	Towards a high-resolution structure of lamins and the nuclear lamina
9	Escudeiro Lopes, Sara Eliana	Institute of Molecular Genetics of the Czech Academy of Sciences, v.v.i.	Sara Escudeiro-Lopes, Vlada V. Philimonenko, Lenka Jarolimová, and Pavel Hozák	Characterization of Lamin A / Phosphatidylinositol-4,5-bisphosphate complex

#	Name	Organization	Co-Authors	Poster Title
10	Foisner, Roland	Medical University of Vienna	Attila Kiss and Sema Osmanagic-Myers	Progerin expression in nuclei of endothelial cells causes cardiovascular pathology through an impaired mechanoresponse
11	Fuchs, Peter	University of Vienna	to be submitted at a later date	to be submitted at a later date
12	Gilbert, Hamish T J	University of Manchester	Hamish T.J. Gilbert, Venkatesh Mallikarjun, Oana Dobre, Mark R. Jackson, Robert Pedley, Andrew P. Gilmore, Stephen M. Richardson and Joe Swift	Nuclear decoupling is part of a rapid protein-level cellular response to high-intensity mechanical loading
13	Gonzalo, Susana	Saint Louis University	Ray Kreienkamp, Simona Graziano, Nuria Coll-Bonfill, Gonzalo Bedia-Diaz	Mechanisms underlying genomic instability in laminopathies
14	Gregor, Martin	Institute of Molecular Genetics, ASCR	Kalendova A., Buresova P., Sarnova L., Havelkova H., Koubkova G., Skarda J., Pacha J.4, Dürrbeck Ch., Sedlacek R., Wiche G., Fabry B., Gregor M.	Plectin controls intestinal epithelial barrier through hemidesmosome stability
15	Hagemann, Tracy L	University of Wisconsin-Madison	Tracy Hagemann, Berit Powers, Curt Mazur, Albee Messing	Targeting GFAP as a Treatment Strategy in Alexander Disease
16	Hnia, Karim	INSERM DRTLS	Gavriilidis C, Laredj L, Solinhac R, Messaddeq N, Viaud J, Laporte J, Sumara I, Hnia K	Intermediate filament proteostasis in skeletal muscle: molecular actors and implication in diseases
17	Holm, Emilia	Åbo akademi university		To be submitted at a later date
18	Hozak, Pavel	Institute of Molecular Genetics ASCR, v.v.i.	Margarita Sobol, Vlada Philimonenko, Sukriye Yildirim, Livia Ulicna, Veronika Faberova, Ilona Kalasova, Pavel Hozak	Lipid-containing nuclear structures in genome regulation
19	Jaalouk, Diana Elias	American University of Beirut	Ranim Daw, Dima Diab El Harakeh, Lara Kamand, Georges Nemer, Jan Lammerding, Marwan Refaat, and Diana E. Jaalouk	Hic-5 Deregulation in Lamin A/C and Emerin – Associated Myopathies
20	Jacob, Justin T	Johns Hopkins Bloomberg School of Public Health	Justin T. Jacob (1), Dr. Michael J. Matunis (1), and Dr. Pierre A. Coulombe (1-3)	Keratin 17: A novel regulator of nuclear morphology and chromatin organization
21	Jorgacevski, Jernej	University of Ljubljana	Maja Potokar, Marjeta Lisjak, Marko Kreft and Robert Zorec	AQP4e surface expression and rapid cell volume changes in astrocytes are regulated by vesicle mobility
22	Kirby, Tyler J	Cornell University	Ashley Earle, Gregory Fedorchak, Philipp Isermann, Jineet Patel, Sushruta Iruvanti, Jan Lammerding	Lamin mutations cause mechanically-induced nuclear envelope rupture and DNA damage in muscle fibers
23	Koch, Clarissa M	Northwestern University	Clarissa M Koch, Kishore Annakella, Jennifer Davis, Hiam Abdala-Valencia, Deborah R Winter, Karen M Ridge	Vimentin is required for the innate immune response following influenza A virus infection

#	Name	Organization	Co-Authors	Poster Title
24	Kong, Linghai	UW-Madison	Jeffrey R. Jones, Michael G. Hanna, IV, Brianna Hoffman, Robert Krencik, Robert Bradley, Jeea Choi, Matthew Doers, Marina Dubovis, Tracy Hagemann, Scott G. Canfield, Mohammad Amin Sherafat, Anita Bhat	Parsing Functional Consequences of Mutated GFAP via Alexander Disease iPSCs
25	Lähdeniemi, Iris	Åbo Akademi University	Iris A.K. Lähdeniemi, Petra Miiikkulainen, Laura P. Mairinoja, Tove Grönroos, Terhi O. Helenius, Aruna Ghimire, Karen M. Ridge, Panu Jaakkola, Diana M. Toivola	Keratins are upregulated during hypoxia and modulate the hypoxia signaling pathway in colonic epithelia
26	Lairson, Luke L	The Scripps Research Institute		A vimentin targeting small molecule induces mitotic catastrophe in mesenchymally transformed cancers
27	Laly Aguedo, Ana C	Blizard Institute, Barts and the London, Queen Mary University of London		The keratin cytoskeleton as a regulator of keratinocyte mechano-sensing
28	Larrieu, Delphine	University of Cambridge	Delphine Larrieu, Emmanuelle Viré, Samuel Robson, Sophia Y. Breusegem, Tony Kouzarides and Stephen P. Jackson	NAT10 inhibition normalizes HGPS cells by rebalancing the Transportin-1 nuclear import pathway
29	Lattanzi, Giovanna	CNR Institute of Molecular Genetics	to be submitted at a later date	to be submitted at a later date
30	Lautenschlaeger, Franziska	Leibniz Institute for New Materials	Luiza Stankevics1, Divyendu Thalla1, Zahra Mostajeran1, Emmanuel Terriac1, Fang Cheng2, Marta Urbanska3, John Eriksson2, Franziska Lautenschläger1.	The role of vimentin in leukocyte amoeboid migration
31	Lehmann, Sonja	Institute of Molecular and Cellular Anatomy, RWTH Aachen University	Sonja Lehmann, Reinhard Windoffer, Nicole Schwarz, Rudolf E. Leube	Automated tracking of keratin granules reveals effect of non-muscle myosin II on granule motility
32	Lilina, Anastasia	KU Leuven	Sergei Strelkov	Structural studies of intermediate filaments
33	Machowska, Magdalena	University of Wroclaw	Bearzi C, Piekarowicz K, Madej-Pilarczyk A, Rzepecki R	Reprogramming of fibroblasts from patients with EDMD1 to induced pluripotent stem cells.
34	Madhusudhan, Mallur S	Indian Institute of Science Education and Research, Pune	Neelesh Soni	The near-atomic level structural model of the K5-K14 intermediate filament.
35	Maninova, Miloslava	Institute of Molecular Genetics, AS CR	Maninová M. and Fišerová J., Uhlířová J., Šebestová L., Merten A.L., Friedrich O., Hozák P.	The role of protein TPR in the integrity of the nuclear lamina

#	Name	Organization	Co-Authors	Poster Title
36	Mariani, Richard A	Rutgers University Newark	Richard A. Mariani, Gregory F. Weber	14-3-3 recruits keratin intermediate filaments to mechanically sensitive cell-cell contacts
37	Minin, Alexander A	Institute of Protein Research, Russian Academy of Sciences	Sofia S. Endzhevskaya	The role of vimentin IFs in cell migration.
38	Moch, Marcin	University Hospital, RWTH Aachen University	Nicole Schwarz, Reinhard Windoffer, Rudolf E. Leube	Keratin filaments polymerize at nascent desmosomes with subsequent bundling and stabilization upon desmosome maturation
39	Mor-Vaknin, Nirit	University of Michigan	Mor-Vaknin N., Yue Y., Saha A., Danielle, M., Greenson J., Kao J.Y., Grace Y. Chen and Markovitz D.M.	The Pro-inflammatory Role for Vimentin in the Colon
40	Nyström, Joel	Åbo Akademi University	Keshav Thapa, Ilari Pulli, Kid Törnquist and Diana M. Toivola	Loss of keratin 8 induces deregulation of caveolin-1 and diminished caveolar and mitochondrial calcium responses in colonic epithelial cells
41	Padiath, Quasar S	University of Pittsburgh	TBD,	A model for the spatial organization of the nuclear lamina
42	Pajares, Maria A	Centro de Investigaciones Biologicas (CSIC)	Sofía Duarte, Álvaro Viedma-Poyatos, Elena Navarro, Alma E. Martínez, María A. Pajares, Dolores Pérez-Sala	Interaction of vimentin filaments with the mitotic cortex requires the tail domain
43	Perez-Sala, Dolores	Consejo Superior de Investigaciones Científicas (CSIC)	Andreia Mónico, Sofia Duarte, Eva Griesser, Maria Fedorova, María A. Pajares	Electrophilic and oxidative modifications of vimentin uncover new possibilities for regulation
44	Perng, Ming-Der	National Tsing Hua University	Ni-Hsuan Lin, Albee Messing	Characterization of a panel of monoclonal antibodies recognizing specific epitopes on GFAP
45	Piekarowicz, Katarzyna	University of Wrocław	Katarzyna Piekarowicz, Daria Filipczak, Magdalena Machowska, Agnieszka Madej-Pilarczyk, Ryszard Rzepecki	Investigating a molecular background of Emery-Dreifuss muscular dystrophy type 1
46	Portet, Stephanie	University of Manitoba	John Dallon (BYU, Provo, Utah, USA) , Cecile Leduc and Sandrine Etienne-Manneville (Institut Pasteur, Paris, France)	Transport of intermediate filaments in cells
47	Potokar, Maja	University of Ljubljana	Miša Korva, Jernej Jorgacevski, Tatjana Avšič-Zupanc, Robert Zorec	Rat Astrocytes Resist Infection with Tick-Borne Encephalitis Virus

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48	Prechova, Magdalena	Institute of Molecular Genetics of the ASCR	Katerina Nepomucka ¹ , Magdalena Prechova ¹ , Oldrich Benada ² , Gerhard Wiche ³ , Martin Gregor ¹ ¹ Dept. of Integrative Biology, IMG CAS, Prague, CZ, ² Dept. of Transgenic Models of Diseases, IMG CAS, Prague,	Plectin confers mechanical stability of biliary epithelium
49	Rato, Leila S	Turku Centre for Biotechnology	Leila Coelho Rato, Artur Padzik, Ponnuswammy Mohanasundaram, Fang Cheng, Peter James, John Eriksson	Proteomic analysis of the vimentin signalling interactome during mTOR mediated cell size regulation
50	Robinson, Jasmine A	UNC Chapel Hill	Melinda Lian, Helen Willcockson, Rachel Battaglia, Natasha T. Snider	Widespread accumulation and aggregation of IF proteins during mammalian aging and partial reversal by lifelong caloric restriction
51	Russo, Brian C	Massachusetts General Hospital	Jeffrey K. Duncan, Alexandra L. Wiscovitch, Austin C. Hachey, Marcia B. Goldberg	Intermediate filaments activate a bacterial secretion system
52	Rzepecki, Ryszard	University of Wroclaw	Rzepecki R.*, Palka M., Tomczak A. Machowska M., Piekarowicz K., Jablonska J. Rzepecka D.	Remodeling of lamin protein complexes on chromatin during stress.
53	Schäfer, Georgia G	University of Cape Town	Carse S, Graham LM, Lang D, Blumenthal MJ, Bergant Marušić M, Katz AA and Schäfer G	Non-filamentous vimentin protein binds to HPV16 pseudovirions and dampens infection in a murine model
54	Schirmer, Eric C	University of Edinburgh	Alexandr A. Makarov, Juan Zou, Douglas R. Houston, Christos Spanos, Alexandra S. Solovyova, Juri Rappsilber, and Eric C. Schirmer	Lamin A molecular compression and sliding as mechanisms behind nucleoskeleton elasticity
55	Schwarz, Nicole	RWTH Aachen University	Nicole Schwarz, Reinhard Windoffer, Thomas M. Magin, Rudolf E. Leube	Determinants of intermediate filament dynamics in vivo
56	Sengupta, Kundan	Biology, Indian Institute of Science Education and Research (IISER) Pune	Ayantika Sen Gupta	Lamin B2 modulates nucleolar morphology, dynamics and function
57	Sobol, Margarita	Institute of Molecular Genetics of the ASCR, v. v. i.	Margarita Sobol ¹ , Alžbeta Krausová ¹ , Sukriye Yildirim ¹ , Ilona Kalasová ¹ , Veronika Fáberová ¹ , Vladimír Vrkoslav ² , Vlada Philimonenko ^{1,3} , Pavel Marášek ¹ , Lukáš Pastorek ^{1,3} , Martin Capek ⁴ , Zuzana Lubovsk	Advanced microscopy characterization of nuclear lipid islets which participate in forming nuclear architecture competent for transcription
58	Stassen, Oscar MJA	Eindhoven University of Technology	T. Ristori, C.V.C Bouten, S. Loerakker, C.M. Sahlgren	Computational investigation of the interplay between Vimentin and Notch signalling in the regulation of vascular homeostasis

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59	Stenvall, Carl-Gustaf A	Åbo Akademi	Joel H. Nyström, Ciaran Butler Hallissey, Robert D. Goldman, Diana M. Toivola	Loss of cytoplasmic keratins in colonocytes downregulates nuclear lamins and compromises nuclear lamina integrity and cell cycle regulation
60	Swift, Joe	Wellcome Trust Centre for Cell-Matrix Research	Oana Dobre, Mark R. Jackson, Venkatesh Mallikarjun, Hamish T.J. Gilbert, Stephen M. Richardson	Mechanosensitivity of mesenchymal stem cells (MSCs) is abrogated in senescence, coincident with changes at the nuclear lamina
61	van Asperen, Jessy	University Medical Center Utrecht, Utrecht University	Emma J. van Bodegraven, Coen van Deursen, Jacqueline Sluijs, Jacco van Rheenen, Pierre A.J. Robe, Elly M. Hol	Dissecting the function of GFAP isoforms in a 3D organotypic brain slice model of astrocytoma invasion
62	van Bodegraven, Emma J	Brain Center Rudolf Magnus, UMC Utrecht	Jessy V. van Asperen, Jacqueline Sluijs, Coen van Deursen, Miriam E. van Strien, Oscar M.J.A. Stassen, Pierre A.J. Robe, Elly M. Hol	GFAP alternative splicing in astrocytoma is associated with laminin-induced MAPK-signaling
63	Vashisth, Manasvita	University of Pennsylvania	Sangkyun Cho, Stephanie Majkut, Manasvita Vashisth, Amal Abbas, Yuntao Xia, Kenneth Vogel, Irena Ivanovska, Jerome Irianto, Manorama Tewari, Hsin-Yao Tang, Sam Safran, Benjamin Prosser, and Dennis E.	Mechanosensing to protect the genome from DNA damage in development
64	Venu, Arun P	Åbo Akademi University	Mayank Modi, Leila Rato, John Eriksson, Fang Cheng	Vimentin's role in directional cell migration via focal adhesion complex modulation
65	Viedma, Alvaro	Centro de Investigaciones Biológicas (CIB), CSIC	Yolanda de Pablo, Milos Pekny and Dolores Perez-Sala	The cysteine residue of glial fibrillary acidic protein is a critical target for lipoxidation and required for efficient network formation
66	Virtanen, Laura T	University of Turku	Disheet Shah, Josef Gullmets, Gun West, Tiina Heliö, Johanna Kuusisto, Katriina Aalto-Setälä and Pekka Taimen	Modelling of LMNA-related dilated cardiomyopathy with iPSC-derived cardiomyocytes
67	Weber, Gregory	Rutgers University-Newark	Richard A. Mariani, Gregory F. Weber	14-3-3 recruits keratin intermediate filaments to mechanically sensitive cell-cell contacts
68	Weber, Miriam	University of Zurich	Ohad Medalia	Determining the structure of keratin filaments by cryo-electron microscopy
69	Windoffer, Reinhard	Uniklinikum RWTH Aachen	Dmytro Kotsur, Roman Yakobenchuk, Julian Mattes, Rudolf Leube	Digital Tracking and Motion Analysis of Keratin Intermediate Filaments in Living Cells
70	Yamakawa, Daishi	Mie University	Kousuke Kasahara, Masaki Inagaki	The keratin filament-binding protein Trichoplein regulates production of intradermal adipocytes

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71	Zahr, Hind C	American University of Beirut	Hind C. Zahr, Dana Sedki, Dima Diab El Harakeh, Jan Lammerding, Georges Nemer, Marwan Refaat, and Diana E. Jaalouk	Deregulation of Rbm20 in Lamin A/C and Emerin Related Cardiomyopathies
72	Zinn-Justin, Sophie	CEA	Camille Samson, Ambre Petitalot, Florian Celli, Isaline Herrada, Virginie Ropars, Marie-Hélène Le Du, Ana-Andrea Arteni, Brigitte Buendia	A molecular description of the interaction between lamin A/C, emerin, BAF and DNA
73	Zuela - Sopilniak, Noam	Cornell University	Noam Zuela-Sopilniak, Emily Sophia Bell, Tulasi Anna Gopalan, Jan Lammerding	Modulating mechanical and metabolic functions of breast cancer metastasis
74	Wilhelmsson, Ulrika	University of Gothenburg	Ulrika Wilhelmsson, Isabell Lebkuechner, Renata Leke, Pavel Marasek, Xiaoguang Yang, Daniel Antfolk, Meng Chen, Paria Mohseni, Eva Lasič, Saša Trkov Bobnar, Matjaž Stenovec, Robert Zorec, Andras Nagy, Cecilia Sahlgren, Marcela Pekna,, and Milos Pekny	Nestin Regulates Neurogenesis through Notch Signaling from Astrocytes to Neural Stem Cells
75	Wilhelmsson, Ulrika	University of Gothenburg	Ulrika Wilhelmsson, Yolanda de Pablo, Meng Chen, Till B. Puschmann, Pavel Marasek, Masaki Inagaki, Marcela Pekna, Milos Pekny	Phospho vimentin-deficient mice – lessons from the central nervous system

Conference Registration List

Intermediate Filaments

Intermediate Filaments as the Platform to Underpin the "Social Network" of Cells and Tissues

Gordon Research Conference

June 24-29, 2018

Renaissance Tuscany Il Ciocco, Lucca (Barga), Italy

Chair: Milos Pekny

Vice Chairs: Jan Lammerding and Roy Quinlan

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