



XXIInd Meeting

of the

Federation of European Connective Tissue Societies

July 03rd - 07th, 2010
DAVOS, Switzerland

Program and General Information



Sponsors

We are thankful for the generosity of our sponsors. Without their support this meeting would not have been possible.



We thank the Swiss National Science Foundation for the grant supporting the traveling of the speakers (grant # 31CO30_133375)



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Welcome to the XXIInd Meeting of the Federation of European Connective Tissue Societies in Davos, 2010 held in conjunction with the International Society of Matrix Biology

On behalf of the Swiss Society of Matrix Biology and German Society of Connective Tissue Research, we are honored to welcome you to the XXIInd meeting of the Federation of the European Connective Tissue Societies (FECTS), held in conjunction with the International Society of Matrix Biology.

Back in the 80s the FECTS was founded to foster the scientific exchange not only between European countries, but also between junior and senior scientists. Furthermore, the FECTS developed an ongoing exchange with many scientists abroad. In this tradition the FECTS-Meeting 2010 aims to set a platform for the exchange of the most recent data from all aspects of basic and applied extracellular matrix research and to promote lively discussions. The latter shall take place in a very informal atmosphere - e.g. during hiking in the mountains of Davos. We especially welcome all the young researchers who have registered to this meeting - even if due to the financial crisis the traveling funds are very limited.

We would like to thank all speakers, chairs, and participants for their valuable contributions to the meeting. We are grateful for the support of the International and the French Societies of Matrix Biology and for the contributions of our sponsors.

It is an honor for the Swiss and German connective tissue researchers to host the meeting this year in conjunction with the International Society of Matrix Biology (ISMB). We are convinced that you will enjoy the scientific discussions in the beautiful and exciting environment of the Swiss Alps in Davos.

Welcome to Davos!
Johannes Schittny and Susanne Grässer
Chairs of the XXIInd FECTS-Meeting held in conjunction with the ISMB

Committees

Chairpersons

Johannes C. Schittny, University of Bern (Swiss Society of Matrix Biology)
Susanne Grässel, University of Regensburg (German Connective Tissue Society)

Local Organizing Committee

Rita Dreier, University of Münster, Germany
Johannes Eble, University of Frankfurt, Germany
Susanne Grässel, University of Regensburg, Germany
Liliana Schaefer, University of Frankfurt, Germany
Johannes C. Schittny, University of Bern, Switzerland
Frank Zaucke, University of Cologne, Germany

Scientific Committee

Anja Bosserhoff, University of Regensburg, Germany
Ruth Chiquet, University of Basel, Switzerland
Beate Eckes, University of Cologne, Germany
Dieter Reinhardt, University of Montreal, Canada
Lydia Sorokin, University of Münster, Germany

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	Graham Riley	graham.riley@uea.ac.uk

Meeting Information

Location

The meeting venue is the Hotel Schweizerhof (all plenary lectures and the workshop Hot Topics) and the Davos Congress Center (all workshops, poster sessions, and an industrial exhibition). The distance between both locations is less than 1 km, about 10 minutes walking distance along Davos' shopping mile!

Registration and Information Desks

The *registration and information desk* is located in the lower foyer of the Schweizerhof (next to the plenary hall) and will be open Saturday, July 3rd from 15.00 - 20.00 and during the plenary lectures. During the afternoon and evening sessions the *registration and information desk* will be located just left of the main entrance of the Congress Center (level Aspen). A bulletin board for everyone's use will be available at the *registration and information desk*.

Badges

Name badges will be handed out to all registered participants and are requested to be worn during the entire meeting.

Plenary and Workshop Sessions

The lecture halls will be equipped with a LCD projector and a computer. All speakers are kindly asked to upload and test their presentations (PowerPoint) well in advance at the *registration and information desk*. Latest 30 min. before the start of the session the presentations will be loaded onto the computer of the lecture hall. In order to ensure uninterrupted sessions all speakers are kindly asked not to use their own laptops. Only very few, justified exceptions are possible. If you need help, please ask at the *registration and information desk* or directly before the session the responsible technician in the lecture hall.

Posters

All abstracts have been accepted for a presentation (oral and poster **or** poster only). A number has been assigned to each poster as listed in the abstract book. Please look for your poster board (see drawing of the congress center, pages 11-12) and attach your poster at your poster board using poster strips which will be provided. Please do not use any other method to stick your poster to the board. It will damage the poster boards!

All posters will be displayed for the entire meeting (Saturday evening until Wednesday at noon). The poster viewing times are as follows.

- Even numbers during the first half of the poster sessions (Sunday and Monday 19:00 - 19:45, Tuesday 16:30 - 17:15)
- Uneven numbers during the second half of the poster sessions (Sunday and Monday 19:45 - 20:30, Tuesday 17:15 - 18:00).

Authors are kindly requested to be present for discussions at their posters during viewing times.

Poster Sessions

Sunday, July 4th → Workshops W01, W02, and W06.

Monday, July 5th → Workshops W03, W04, and W07.

Tuesday, July 5th → Workshops W05, W08, W09 and Hot topics.

Poster Prizes

Five poster prizes will be awarded at the end of the meeting. The competition is open to all presenting authors. Posters will be judged by an international committee of senior scientists.

Industrial Exhibition

The Industrial exhibition will be located at the entrance foyer of the Davos Congress Center.

Welcome Reception

The welcome reception will take place on Saturday, July 3rd 19:30 - 21:00 in the foyer in front of the lecture hall in the Hotel Schweizerhof. Participation is free of charge for all registered participants carrying their conference badge.

Conference Dinner (Tuesday, July 6th after 19:30)

The conference dinner will take place in the Hotel Schatzalp on Tuesday, July 6th starting at 19:30 with a reception. Participants who have paid for the dinner will find a ticket in their registration documents and are requested to show it before the dinner.

The Hotel Schatzalp is located at the Schatzalp and can be reached with the "Strela Schatzalp Bahn". This mountain cable car station is located at the "Promenade" between the Congress Center and the Hotel Schweizerhof (100 m after the Hotel). The ride is included in the accommodation. You just have to show your "Gästekarte" (Guest card).

Coffee Breaks

Coffee breaks will be held during the morning plenary sessions at the foyer of the Schweizerhof in front of the lecture hall. Beverages will also be served at the beginning of the poster sessions in the Davos Congress Center.

Lunch

Lunch is available at a price of 10 - 15 SFr at the Hotel Schweizerhof (in front of the lecture hall) or in restaurants close to the Schweizerhof.

Outdoor Activities

Hiking tours

Guided hiking tours are offered free of charge Sunday and Monday between 13.30 and 16.30. Depending on the weather conditions the tours will be announced during registration or latest directly after the plenary sessions.

Soccer game (Sunday, July 14:00 - 16:00)

A soccer game will be organized on Sunday afternoon 14.00 - 16.00 on the soccer area south of the ice hockey stadium. Please contact Frank Zaucke (organization committee) for details.

Soccer World Cup

At the evenings of the 3rd and the 6th of July, public viewing for the Soccer world cup games will be possible in the Café Chamonix located in the Congress Center. Beverages and snacks will be available at own cost. Please show your badge because for legal reasons the "public" viewing is exclusively open for participants of the FECTS-Meeting.

Guided tours

Due to the limited budget we have to charge fees for the guided tours. Every participant received an Email describing the guided tours and asking for reservations. Everyone who made a reservation have to show up at the registration desk and pay the ticket. Remaining tickets may also be bought at the registration desk.

Alpinum Schatzalp - Alpine botanical garden (Sunday, July 14:00 - 16:00)

Enjoy the 3500 + alpine flowers collected all over the world in the botanical garden at the Hotel Schatzalp. Duration of the tour ca. 2 h.

Please take the mountain cable car at 13:45 and do not forget your "Gästekarte" (Guest card) which is serving as ticket for the cable car). The **fee is 20.- SFr** per person (10 - 30 persons).

Visit of the Kirchner Museum (Sunday, July 4th 14:00)

Visit the Ernst Ludwig Kirchner Museum and get an introduction to the famous painter who spent some years of his life in Davos. Duration of the tour ca. 1 h; you may stay in the museum as long as you want.

Meeting point. Entrance hall of the Kirchner Museum on Sunday, July 4th 14:00. The **fee** (including the entrance fee for the museum) **is 25.- SFr** per person (10 - 30 persons).

Downhill Scooter ("Trottinet") (Monday, July 5th 13:50 - 16:00)

If the weather permits the ride we take the Rinerhorn mountain cable car and enjoy the view onto Davos and the surrounding mountains. Afterwards we take a downhill scooter and drive down to the valley.

Meeting point. Entrance of the Hotel Schweizerhof on Monday, July 5th at 13:50. The **fee is 15.- SFr** per person (10 - 30 persons).

Meet the "Zauberberg" - Art nouveau Hotel Schatzalp (Tuesday, July 18:45/19:00 - 20:00)

The novel Magic Mountain (Der Zauberberg) by Thomas Mann plays in large parts in the Hotel Schatzalp. The guided tour focuses on both, the art nouveau (Jugendstil) architecture of the Schatzalp and the setting of the hovel. Duration of the tour ca. 1 h. At the same day the conference dinner will take place. If you attend this tour you will be a little bit late for the reception, but there will be still enough time (ca. 30 min.) before the conference dinner starts.

Please take the mountain cable car at **18:45** latest. The ride is included in the accommodation. You just have to show your "Gästekarte" (Guest card). The **fee is 15.- SFr** per person (10 - 50 persons).

General Information

Emergency Phone Numbers

Any kind of emergency	112
Police	117
Fire alarm	118
Ambulance	144

Transportation

The fare for the local busses (Ortsbus) and mountain cable cars are included in your hotel room. If you have checked in any kind of hotel you will receive the "Gästekarte" (guest card), which serves as a ticket for the busses and cable cars. Please show the guest card on request.

Internet Access

Free wireless LAN (W-LAN) is available at the Davos Congress Center for all participants during the time of the meeting. Please notice that the username and the password are case sensitive!

The W-LAN is called: Kongresszentrum Davos

Username: fects2010

Password: davos

AC-Power

In Switzerland the electrical power net runs on 230 V using the Swiss plug with three pins. You may also use the "Europlug" which has only two pins (for additional information see http://en.wikipedia.org/wiki/AC_power_plugs_and_sockets)

Language

Davos belongs to the Swiss-German part of Switzerland. The conference language is English. No simultaneous translations are available

Currency

Switzerland does not belong to the European Union. Therefore, it has its own currency - which is the Swiss Frank (SFr or CHF)

Tourist Information

Tourismus- und Sportzentrum

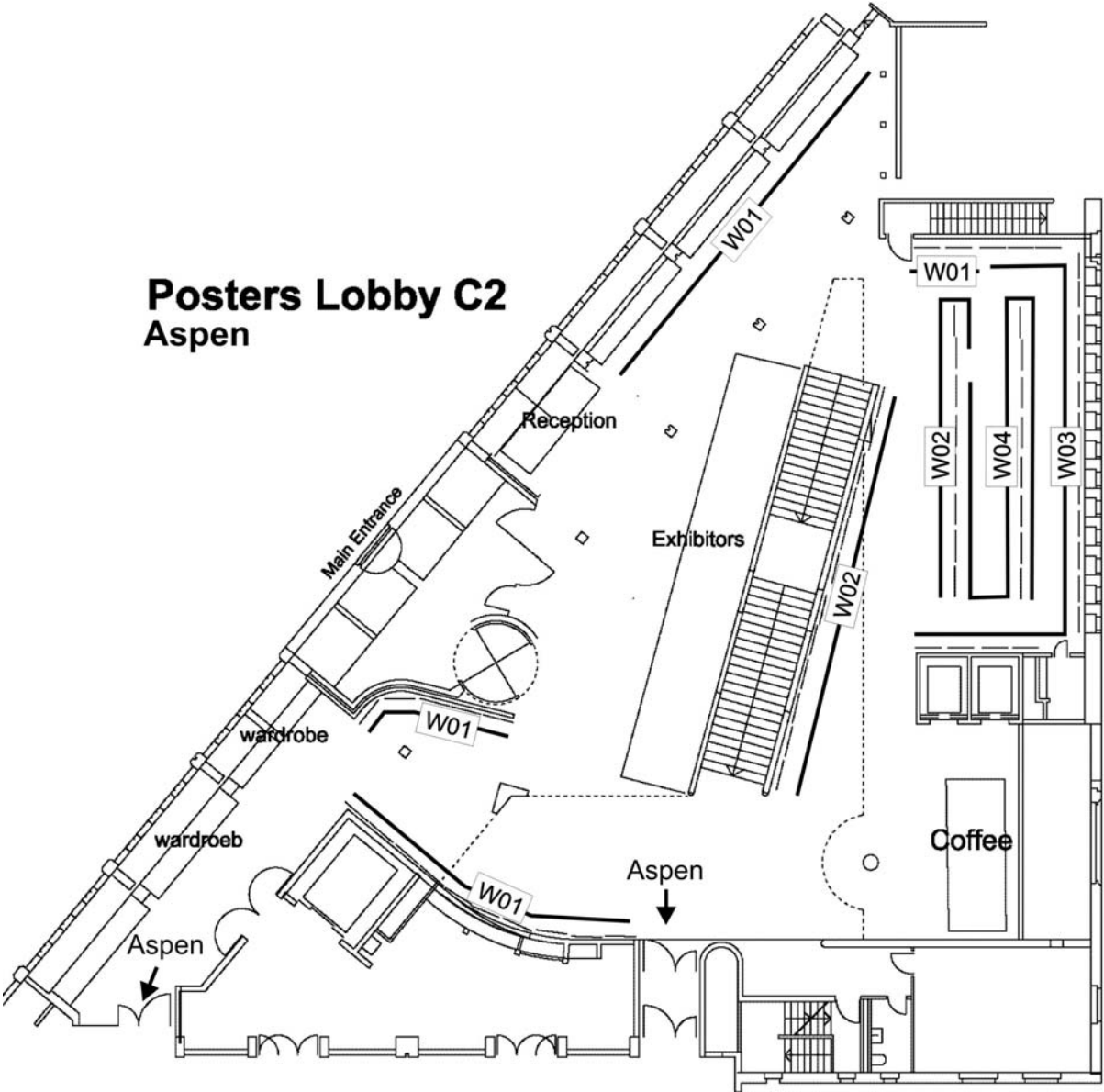
Talstrasse 41

7270 Davos Platz

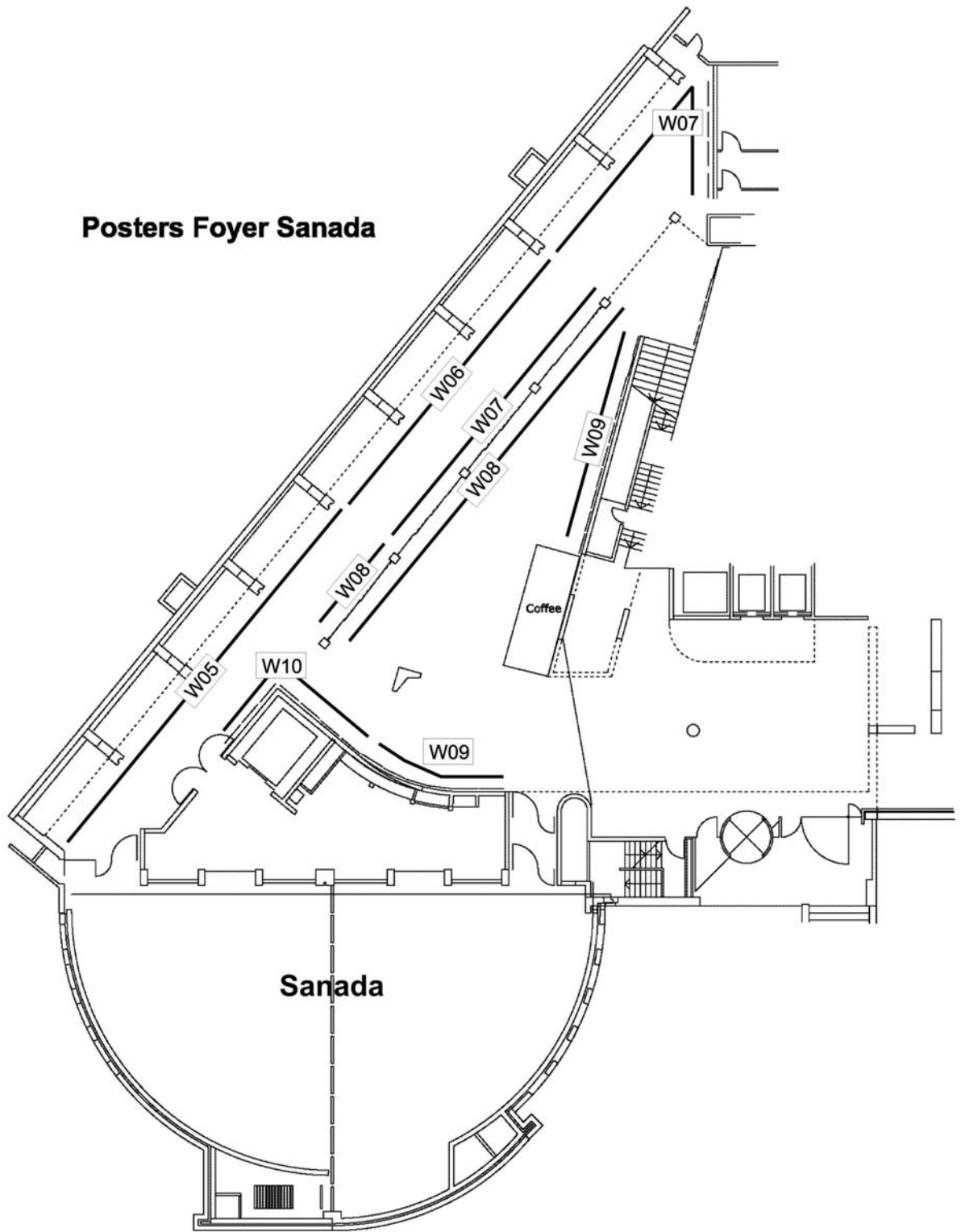
Tel. +41 (0)81 415 21 21, Fax +41 (0)81 415 21 00

www.davos.ch

Location of Posters



Posters Foyer Sanada



Program at a Glance

Saturday, July 3rd **Location: Hotel Schweizerhof**

- 15:00 - 20:00 Registration
- 18:00 - 18:30 Opening ceremony
Johannes Schittny, Susanne Grässel, Renato Iozzo
- 18:30 - 19:30 Opening lecture - Gillian Murphy
- 19:30 - 21:00 Welcome reception
- 20:00 Public viewing of the soccer world cup in the **Davos Congress Center**

Sunday, July 4th **Location: Hotel Schweizerhof**

- 9:00 - 10:30 Plenary lectures P01
Rocky Tuan, Wiltrud Richter, and Attila Aszodi
- 10:30 - 11:00 Coffee Break
- 11:00 - 12:30 Plenary lectures P02
Paolo Bonaldo, Renato V. Iozzo, and Margareta M. Müller
- 12:30 - 17:00 Lunch and activities like hiking, botanical garden, soccer, + Kirchner Museum

Location: Davos Congress Center

- 16:00 - 17:00 FECTS-Contact persons meeting
- 17:00 - 19:00 Concurrent workshops W01 (Sanada) and W02 (Aspen)
- 19:00 - 20:30 Poster session W01, W02, and W06

Monday, July 5th **Location: Hotel Schweizerhof**

- 9:00 - 10:30 Plenary lectures P03
Martin Humphries, Donald Gullberg, and Atsuko Yoneda
- 10:30 - 11:00 Coffee Break
- 11:00 - 12:30 Plenary lectures P04
Cay Kielty, Fiona Watt, and Lydia Sorokin
- 12:30 - 13:00 FECTS- General Assembly
- 12:30 - 17:00 Lunch and activities like hiking, downhill scooter, etc

Location: Davos Congress Center

- 17:00 - 19:00 Concurrent workshops W03 (Sanada) and W04 (Aspen)
- 19:00 - 20:30 Poster session W03, W04, and W05, Roche presentation

Tuesday, July 6th **Location: Hotel Schweizerhof**

- 9:00 - 10:30 Plenary lectures P05
Georg Duda, Markus Ruegg, and Anika Lange (Rupert Timpl Award Lecture)
- 10:30 - 11:00 Coffee Break

Location: Davos Congress Center

- 11:00 - 13:00 Concurrent workshops W05 (Sanada), W06 (Aspen I), and W07 (Aspen II)
- 13:00 - 14:00 Lunch
- 14:30 - 16:30 Concurrent workshops W08 (Sanada) and W09 (Aspen)
- 16:30 - 18:00 Poster session W05, W08, W09, and Hot topics
- 19:30 - 23:00 Conference Dinner at the Schatzalp / 20:00 Public viewing in the Congress Center

Wednesday, July 7th **Location: Hotel Schweizerhof**

- 9:00 - 10:30 Plenary lectures P06
Sabine Werner, Gertraud Orend, and David Ornitz
- 10:30 - 11:00 Coffee Break
- 11:00 - 12:30 Hot Topics - 6 short talks selected from abstracts
- 12:30 - 13:00 Closing Ceremony and Poster Awards

Scientific Program

Saturday, July 3rd **Location: Hotel Schweizerhof**

- 15:00 - 20:00 Registration
18:00 - 18:30 Opening ceremony
Johannes Schittny, Susanne Grassel, Renato Iozzo
18:30 - 19:30 Opening lecture - chaired by **Johannes A. Eble**, Frankfurt, Germany
Gillian Murphy, University of Cambridge, UK Metalloproteases: modulating
the interface between the cell and its environment
19:30 - 21:00 Welcome reception

Sunday, July 4th **Location: Hotel Schweizerhof**

- 9:00 - 10:30 Plenary lectures P01 - chaired by **Anthony Weiss**, Sydney, Australia
9:00 - 9:30 **Rocky Tuan**, University of Pittsburgh, Pittsburgh, USA
Adult stem cells and nanostructured materials in skeletal tissue engineering
and regeneration
9:30 - 10:00 **Wiltrud Richter**, University of Heidelberg, Heidelberg, Germany
Musculoskeletal tissue regeneration and repair
10:00 - 10:30 **Attila Aszodi**, MPI Martinsried, Munich, Germany
The role of $\beta 1$ integrins in skeletal development: lessons from knockout mice
10:30 - 11:00 Coffee Break
11:00 - 12:30 Plenary lectures P02 - chaired by **Jacek Drobnik**; Lodz, Poland
11:00 - 11:30 **Paolo Bonaldo**, University of Padova, Padova, Italy
Cross talk between autophagy and apoptosis in collagen VI muscular
dystrophies
11:30 - 12:00 **Renato V. Iozzo**, Thomas Jefferson University, Philadelphia, USA
Decorin targets and antagonizes Met activity
12:00 - 12:30 **Margareta M. Müller**, German Cancer Research Centre, Heidelberg, Germany
Inflammatory cell activation in skin SCCs: towards a tumor-supporting
phenotype
12:30 - 17:00 Lunch and activities like hiking, tour to the botanical garden, soccer
gameKirchner Museum

Location: Davos Congress Center

- 16:00 - 17:00 FECTS-Contact persons meeting
17:00 - 19:00 Concurrent workshops W01 (Sanada) and W02 (Aspen)
17:00 - 19:00 Workshop W01: Cell - cell and cell - matrix interaction
17:00 - 17:10 Opening remarks
John Couchman, Copenhagen, Denmark
Jyrki Heino, Turku, Finland
17:10 - 17:25 **Birgit Leitinger**, London, UK
Trafficking defects and loss of ligand binding are the underlying causes of all
reported DDR2 missense mutations found in SMED-SL patients
17:25 - 17:40 **Katrin Blumbach**, Cologne, Germany
Loss of collagen binding integrin receptors $\alpha 2\beta 1$ and $\alpha 11\beta 1$ results in altered
bone mechanical properties

- 17:40 - 17:55 **Thilo Bracht**, Frankfurt, Germany
New Insights into the interaction of Rhodocetin with the Integrin- α 2A domain
- 17:55 - 18:10 **Ulrike Topf**, Basel, Switzerland
Caenorhabditis elegans teneurin, ten-1, genetically interacts with the collagen modifying enzyme prolyl 4-hydroxylase and maintains basement membrane integrity
- 18:10 - 18:25 **Benoît Langlois**, Reims, France
The low-density lipoprotein receptor-related protein-1 (LRP1) mediates the clearance of extracellular proteinases but promotes cancer cell invasion by regulating MAPK signaling
- 18:25 - 18:40 **Sulev Ingerpuu**, Tartu, Estonia
Laminin 411 and 511 localization and secretion from human blood platelets.
- 18:40 - 18:55 **Sylvie Ricard-Blum**, Lyon, France
Interaction networks of intact pathogens with the extracellular matrix
- 18:55 - 19:00 Closing remarks
John Couchman, Copenhagen, Denmark
Jyrki Heino, Turku, Finland
- 17:00 - 19:00 Workshop W02: Molecules and supramolecular complexes in the extracellular matrix
- 17:00 - 17:10 Opening remarks
Johanna Myllyharju, Oulu, Finland
Silvie Ricard-Blum, Lyon, France
- 17:10 - 17:25 **Sofie Symoens**, Ghent, Belgium
Unraveling binding partners to the type V α 1 collagen N-propeptide
- 17:25 - 17:40 **Clair Baldock**, Manchester, UK
The 3D structure of Collagen VI microfibrils and the role of metal-ions in their conformation and assembly
- 17:40 - 17:55 **David Eyre**, Seattle, USA
Prolyl 3-hydroxylation: Evidence for a role in collagen supramolecular assembly
- 17:55 - 18:10 **Dieter Reinhardt**, Montreal, Canada
Mutations in fibrillin-1 leading to classical and neonatal Marfan syndrome cause differential protease susceptibilities and protein function
- 18:10 - 18:25 **Peter Bell**, Manchester, UK
The secretion of mutant V194D matrilin-3 is unaffected by the knock-out of matrilin-1 in a mouse model of MED
- 18:25 - 18:40 **Nicole Platz**, Cologne, Germany
Characterization of a chondrodysplasia-associated mutation in cartilage oligomeric matrix protein (COMP) that disrupts collagen fibrillogenesis
- 18:40 - 18:55 **Toshitaka Oohashi**, Okayama, Japan
Bral1: its role in diffusion barrier formation and conduction velocity in the CNS
- 18:55 - 19:00 Closing remarks
Johanna Myllyharju, Oulu, Finland
Silvie Ricard-Blum, Lyon, France
- 19:00 - 20:30 Poster session W01, W02, and W06

Monday, July 5th **Location: Hotel Schweizerhof**

- 9:00 - 10:30 Plenary lectures P03 - chaired by **Beate Eckes**, Cologne, Germany
- 9:00 - 9:30 **Martin Humphries**, Wellcome Trust Centre for Cell-Matrix Research, Manchester, UK
Proteomic analysis of adhesion signalling

- 9:00 - 10:00 **Donald Gullberg**, University of Bergen, Bergen, Norway
 $\alpha 11\beta 1$ integrin – a mechano-sensing collagen receptor involved in matrix stiffening
- 10:00 - 10:30 **Atsuko Yoneda**, University of Copenhagen, Copenhagen, Denmark
 Fibronectin matrix assembly and its regulation by signalling to myosin II
- 10:30 - 11:00 Coffee Break
- 11:00 - 12:30 Plenary lectures P04 - chaired by **John F. Bateman**, Parkville, Australia
- 11:00 - 11:30 **Cay Kielty**, Wellcome Trust Centre for Cell-Matrix Research, Manchester, UK
 Molecular and cellular basis of elastic fibre formation
- 11:30 - 12:00 **Fiona Watt**, University of Cambridge, Cambridge, UK
 Interactions between epidermal stem cells and the underlying basement membrane
- 12:00 - 12:30 **Lydia Sorokin**, University of Münster, Münster, Germany
 Mechanisms of T -lymphocyte extravasation across vascular basement membranes
- 12:30 - 13:00 FECTS- General Assembly
- 12:30 - 17:00 Lunch and activities like hiking, downhill scooter, etc

Location: Davos Congress Center

- 17:00 - 19:00 Concurrent workshops W03 (Sanada) and W04 (Aspen)
- 17:00 - 19:00 Workshop W03: Tissue Regeneration and Endothelial / Epithelial barriers
- 17:00 - 17:10 Opening remarks
Wilhelm Aicher, Tübingen, Germany
Francois X. Maquart, Reims, France
- 17:10 - 17:25 **Naphtali Savion**, Tel Hashomer, Israel
 Development of a ribose cross-linked injectable fibrinogen for soft tissue augmentation
- 17:25 - 17:40 **Morgan Dos Santos**, Lyon, France
 Analysis of perlecan expression in the epidermal basement membrane during skin ageing
- 17:40 - 17:55 **Anita Driessen-Mol**, Eindhoven, Netherlands
 The elastic network - the missing link in human heart valve tissue engineering
- 17:55 - 18:10 **Anthony Weiss**, Sydney, Australia
 Synthetic elastin-based vascular grafts with mechanical properties matching the human vasculature
- 18:10 - 18:25 **Rolf Brenner**, Ulm, Germany
 Adhesion to collagen I, II, VI or hyaluronic acid differentially influences haptotaxis and chemotactic response of human MSC to PDGF-BB, IGF-I, BMP-2 and VEGF-A
- 18:25 - 18:40 **Mikko Lammi**, Kuopio, Finland
 Repair of osteochondral defects with recombinant human type II collagen gel and autologous chondrocytes in a rabbit model
- 18:40 - 18:55 **Zsuzsa Jenei-Lanzl**, Regensburg, Germany
 Noradrenalin (NA) suppresses chondrogenic differentiation of mesenchymal stem cells via β -adrenergic receptor
- 18:55 - 19:00 Closing remarks
Wilhelm Aicher, Tübingen, Germany
Francois X. Maquart, Reims, France

- 17:00 - 19:00 Workshop W04: Synthesis and remodeling of extracellular matrix
- 17:00 - 17:10 Opening remarks
Chris Overall, Vancouver, Canada
Hideaki Nagase, London, UK
- 17:10 - 17:25 **Claire Hartley**, Manchester, UK
 ARMET and CRELD2, two recently described stress response proteins, are implicated in a murine model of multiple epiphyseal dysplasia
- 17:25 - 17:40 **Dieter Reinhardt**, Montreal, Canada
 The role of fibronectin in microfibril assembly and homeostasis
- 17:40 - 17:55 **Cassandra Baughman**, Boston, USA
 Heparin stimulates elastogenesis: Application to silk-based vascular grafts
- 17:55 - 18:10 **Patrick Henriët**, Bruxelles, Belgium
 Ovarian steroids, MAPKs and aspartic proteinases cooperate to control cell-type specific tissue breakdown in the human endometrium
- 18:10 - 18:25 **David Hulmes**, Lyon, France
 New insights into the mechanism of action of procollagen C-proteinase enhancers
- 18:25 - 18:40 **Gergely Groma**, Cologne, Germany
 ADAMTS-4 and -5 cleave matrilin-4 in late Golgi vesicles present in chondrocytes of defined differentiation states
- 18:40 - 18:55 **Chris Overall**, Vancouver, Canada
 Proteomics deciphers new signaling roles for MMPs in the processing of intracellular proteins located in the extracellular environment
- 18:55 - 19:00 Closing remarks
Chris Overall, Vancouver, Canada
Hideaki Nagase, London, UK
- 19:00 - 20:30 Poster session W03, W04, and W05
- 19.15 - 19.45 Presentation of Roche Diagnostics (Aspen)
Markus Schmitz, Roche Diagnostics, Munich, Germany
 Presentation of the Real-Time Cell Analyzer System xCELLigence.

Tuesday, July 6th **Location: Hotel Schweizerhof**

- 9:00 - 10:30 Plenary lectures P05 - chaired by **Renato V. Iozzo**, Philadelphia, USA
- 9:00 - 9:30 **Georg Duda**, Charité, Berlin, Germany
 Understanding endogenous mechanisms of bone healing as “blueprint” to accelerate healing in critical cases
- 9:30 - 10:00 **Markus Ruegg**, Biozentrum, Basel, Switzerland
 Muscle and its extracellular matrix in health and disease: mechanisms and approaches to treatment
- 10:00 – 10:30 **Anika Lange**, MPI Martinsried, Munich, Germany
 Rupert Timpl Award Lecture
- 10:30 -11:00 Coffee Break

Location: Davos Congress Center

- 11:00 - 13:00 Concurrent workshops W05 (Sanada), W06 (Aspen I), and W07 (Aspen II)
- 11:00 - 13:00 Workshop W05: Connective tissue, development and biomechanical forces
- 11:00 - 11:10 Opening remarks
Florence Ruggiero, Lyon, France
Mathias Chiquet, Bern, Switzerland

- 11:10 - 11:25 **Alvise Schiavinato**, Padova, Italy
Expression and functional role of Emilin-3, a peculiar member of the emilin/multimerin family
- 11:25 - 11:40 **Nicola Facchinello**, Padova, Italy
Dissecting the role of Emilin-1 in arterial hypertension through the use of a conditional and inducible gene knockout in the mouse
- 11:40 - 11:55 **Maria B. Asparuhova**, Basel, Switzerland
Transcriptional control of Tenascin-C expression by megakaryoblastic leukemia factor-1 (MKL1)
- 11:55 - 12:10 **Róza Zákány**, Debrecen, Hungary
Plasmamembrane cation channels and cytosolic Ca²⁺-homeostasis of differentiating chicken chondrocytes
- 12:10 - 12:25 **Rita Dreier**, Münster, Germany
Heparan sulfate regulated, transglutaminase mediated formation of hedgehog multimers and their role in endochondral ossification
- 12:25 - 12:40 **Marjolein Blaauboer**, Amsterdam, Netherlands
Cyclic mechanical stretch reduces myofibroblast differentiation of primary lung fibroblasts
- 12:40 - 12:55 **Peter Hollosi**, Copenhagen, Denmark
Characterisation of stromal-cellular mechanotransduction through syndecan-4
- 12:55 - 13:00 Closing remarks
Florence Ruggiero, Lyon, France
Mathias Chiquet, Bern, Switzerland
- 11:00 - 13:00 Workshop W06: Stem cells and stem cell niches
- 11:00 - 11:10 Opening remarks
Aleksander Sieron, Katowice, Poland
Gerd Klein, Tübingen, Germany
- 11:10 - 11:25 **Szabolcs Felszeghy**, Debrecen, Hungary
Notch signalling is required for the survival of epithelial stem cells in the continuously growing mouse incisor
- 11:25 - 11:40 **Stephane Brézillon**, Reims, France
Role of lumican in the differentiation of human bone-marrow mesenchymal stem cells (MSC) into endothelial progenitor cells (EPC)
- 11:40 - 11:55 **Anna Szydło**, Katowice, Poland
Notch signaling pathway activation during early in vitro differentiation of liver-derived mesenchymal stem cells to osteoblasts
- 11:55 - 12:10 **Antonella Forlino**, Pavia, Italy
Adult stem cells differentiation toward adipogenesis is preferred in the murine model for Osteogenesis Imperfecta BrtlIV
- 12:10 - 12:25 **Sabine Stöckl**, Regensburg, Germany
In vitro gene knockdown of Sox9 affects cell survival and osteogenic differentiation of rMSC
- 12:25 - 12:40 **Hanne-Kaisa Honkanen**, Oulu, Finland
Collagen XVIII regulates tumor multiplicity and lymphangiogenesis in a chemical mouse skin carcinogenesis model
- 12:40 - 12:55 **Richard, Salisbury**, Manchester, UK
Interactions with the extracellular matrix influences mesenchymal stem cell differentiation towards a vascular smooth muscle cell phenotype
- 12:55 - 13:00 Closing remarks
Aleksander Sieron, Katowice, Poland
Gerd Klein, Tübingen, Germany

- 11:00 - 13:00 Workshop W07: Extracellular matrix in skin and wound healing and as a source of biomolecules
- 11:00 - 11:10 Opening remarks
Patricia Rousselle, Lyon, France
Taina Pihlajaniemi, Oulu, Finland
- 11:10 - 11:25 **Joseph Merregaert**, Antwerp, Belgium
Phospholipid scramblase 1 is secreted and interacts with the extracellular matrix protein 1 in the dermo epidermal junction zone of human skin
- 11:25 - 11:40 **Pallavi Agarwal**, Cologne, Germany
Functional role of COMP in skin connective tissue architecture and pathologically altered skin
- 11:40 - 11:55 **Wei Li**, Los Angeles, USA
A 124-amino acid peptide from secreted heat shock protein-90 (HSP90) is a novel wound repair agent
- 11:55 - 12:10 **Jan Kormann**, Cologne, Germany
Lack of PASCIN 2 impairs attachment, spreading and migration of primary dermal fibroblasts
- 12:10 - 12:25 **Clair Baldock**, Manchester, UK
The role of dimerisation and substrate exclusion in the regulation of Tolloid family proteinases
- 12:25 - 12:40 **Elise Lavergne**, Rennes, France
Blocking Wnt signaling by a proteolyzed form of collagen XVIII containing a frizzled domain inhibits in vivo tumor growth in cells carrying active β -catenin
- 12:40 - 12:55 **Nynke Hoper**, Groningen, Netherlands
Intra-uterine tissue engineering of full thickness skin defects in a fetal sheep model
- 12:55 - 13:00 Closing remarks
Patricia Rousselle, Lyon, France
Taina Pihlajaniemi, Oulu, Finland
- 13:00 - 14:00 Lunch
- 14:30 - 16:30 Concurrent workshops W08 (Sanada) and W09 (Aspen)
- 14:30 - 16:30 Workshop W08: Extracellular matrix in angiogenesis and tumor biology
- 14:30 - 14:40 Opening remarks
Kristofer Rubin, Uppsala, Sweden
Jorma Keski-Oja, Helsinki, Finland
- 14:40 - 14:55 **Marion Kusche-Gullberg**, Bergen, Norway
The role of Ext1 in tumor-stroma interactions
- 14:55 - 15:10 **Enrico Martina**, Basel, Switzerland
Tenascin-W is overexpressed in glioma-associated blood vessels and stimulates angiogenesis in vitro
- 15:10 - 15:25 **Mari Aikio**, Oulu, Finland
Arresten, a collagen-derived angiogenesis inhibitor, suppresses carcinoma invasiveness by inducing apoptosis and mesenchymal-to-epithelial transition
- 15:25 - 15:40 **Lena Bengestrate**, Cologne, Germany
Identification of microRNAs promoting endothelial-perivascular cell interactions
- 15:40 - 15:55 **Sanna-Maria Karppinen**, Oulu, Finland
Localisation of type XV and XVIII collagens in malignant human skin
- 15:55 - 16:10 **Renata Gustafsson**, Uppsala, Sweden
Integrin- β 3 deficiency causes a fibrotic tumor microenvironment and increased tumor interstitial fluid pressure in syngeneic mouse carcinoma

- 16:10 - 16:25 **Tuula Salo**, Oulu, Finland
A myoma organotypic model provides a natural human microenvironment for cell invasion studies
- 16:25 - 16:30 Closing remarks
Kristofer Rubin, Uppsala, Sweden
Jorma Keski-Oja, Helsinki, Finland
- 14:30 - 16:30 Workshop W09: Extracellular matrix in the musculoskeletal system
- 14:30 - 14:40 Opening remarks
Madeleine Durbeej-Hjalt, Lund, Sweden
Jelena Gavrilovic, Norwich, UK
- 14:40 - 14:55 **Janine Meienberg**, Zurich, Switzerland
True haploinsufficiency of COL3A1 causes aortic dissection
- 14:55 - 15:10 **Heli Härönen**, Oulo, Finland
Both transmembrane and shed collagen XIII are required for the neuromuscular junction integrity
- 15:10 - 15:25 **Joan C. Marini**, Bethesda, USA
Absence of cyclophilin B causes recessive osteogenesis imperfecta but does not impair type I collagen peptidyl-prolyl isomerization
- 15:25 - 15:40 **Daniela Zwolanek**, Cologne, Germany
Collagen XXII interacts with integrins via new motifs and links tenocytes to myocytes
- 15:40 - 15:55 **Antonio Rossi**, Pavia, Italy
Defective proteoglycan sulfation of the growth plate zones in the dtd mouse causes reduced chondrocyte proliferation via an altered Indian hedgehog signalling
- 15:55 - 16:10 **Benedetta Gualeni**, Manchester, UK
Model systems to study pseudoachondroplasia resulting from the common p.D469Del COMP mutation provide novel insights in to disease mechanisms
- 16:10 - 16:25 **Shireen Lamande**, Parkville, Australia
Mutations in TRPV4 cause an inherited arthropathy of hands and feet
- 16:25 - 16:30 Closing remarks
Madeleine Durbeej-Hjalt, Lund, Sweden
Jelena Gavrilovic, Norwich, UK
- 16:30 - 18:00 Poster session W05, W08, W09, and Hot topics
- 19:30 - 23:00 Conference Dinner at the Schatzalp

Wednesday, July 7th Location: Hotel Schweizerhof

- 9:00 - 10:30 Plenary lectures P06 - chaired by **Ruth Chiquet-Ehrisman**, Basel, Switzerland
- 9:00 - 9:30 **Sabine Werner**, ETH Zurich, Institute of Cell Biology, Zurich, Switzerland
Parallels between wound healing and cancer
- 9:30 - 10:00 **Gertraud Orend**, Inserm 682, Strasburg, France
Tenascin-C in the tumor microenvironment triggers oncogenic signaling
- 10:00 - 10:30 **David Ornitz**, University of St. Louis, St. Louis, USA
Growth factor signalling pathways in the developing lung
- 10:30 - 11:00 Coffee Break
- 11:00 - 12:30 Hot Topics
Frank Zaucke, Cologne, Germany
Dieter Reinhardt, Montreal, Canada

- 11:00 - 11:15 **Barbara Maertens**, Hilden, Germany
Efficient protein synthesis of active Fab fragments and other disulfide bonded proteins in cell lysates obtained from *Spodoptera frugiperda*
- 11:15 - 11:30 **Richard Wilson**, Melbourne, Australia
Proteomic profiling of cartilage ECM formation and maturation using sequential protein extraction and quantitative mass spectrometry
- 11:30 - 11:45 **Kathryn Cheah**, Hong Kong, Hong Kong
Genetic and genomic analyses of chondrocyte adaptation to ER stress in vivo
- 11:45 - 12:00 **Fransiska Malfait**, Ghent, Belgium
The RIN2 syndrome: a new autosomal recessive connective disorder caused by deficiency of Ras and Rab interactor 2 (RIN2)
- 12:00 - 12:15 **Lotta Seppinen**, Oulu, Finland
Lack of collagen XVIII and overexpression of its endostatin domain interfere with hair follicle growth and cycling
- 12:15 - 12:30 **Karin Bauer**, Regensburg, Germany
Slit2 facilitates interaction of P-cadherin with Robo3 and inhibits cell migration in head and neck squamous cell carcinoma
- 12:30 - 13:00 Closing Ceremony and Poster Awards

Workshop W01: Cell - cell and cell - matrix interaction

Sunday, July 4th, 17:00 – 19:00 *Sanada (Davos Congress Center)*

Moderators: **John Couchman**, Copenhagen, Denmark
Jyrki Heino, Turku, Finland

17:00 - 17:10 Opening remarks

17:10 - 17:25 **Birgit Leitinger**, London, UK
Trafficking defects and loss of ligand binding are the underlying causes of all reported DDR2 missense mutations found in SMED-SL patients

17:25 - 17:40 **Katrin Blumbach**, Cologne, Germany
Loss of collagen binding integrin receptors $\alpha 2\beta 1$ and $\alpha 11\beta 1$ results in altered bone mechanical properties

17:40 - 17:55 **Thilo Bracht**, Frankfurt, Germany
New Insights into the interaction of Rhodocetin with the Integrin- $\alpha 2A$ domain

17:55 - 18:10 **Ulrike Topf**, Basel, Switzerland
Caenorhabditis elegans teneurin, ten-1, genetically interacts with the collagen modifying enzyme prolyl 4-hydroxylase and maintains basement membrane integrity

18:10 - 18:25 **Benoît Langlois**, Reims, France
The low-density lipoprotein receptor-related protein-1 (LRP1) mediates the clearance of extracellular proteinases but promotes cancer cell invasion by regulating MAPK signaling

18:25 - 18:40 **Sulev Ingerpuu**, Tartu, Estonia
Laminin 411 and 511 localization and secretion from human blood platelets.

18:40 - 18:55 **Sylvie Ricard-Blum**, Lyon, France
Interaction networks of intact pathogens with the extracellular matrix

18:55 - 19:00 Closing remarks

Workshop W02: Molecules and supramolecular complexes in the extracellular matrix

Sunday, July 4th, 17:00 – 19:00 *Aspen (Davos Congress Center)*

Moderators: **Johanna Myllyharju**, Oulu, Finland
Silvie Ricard-Blum, Lyon, France

17:00 - 17:10 Opening remarks

17:10 - 17:25 **Sofie Symoens**, Ghent, Belgium
Unraveling binding partners to the type V α 1 collagen N-propeptide

17:25 - 17:40 **Clair Baldock**, Manchester, UK
The 3D structure of Collagen VI microfibrils and the role of metal-ions in their conformation and assembly

17:40 - 17:55 **David Eyre**, Seattle, USA
Prolyl 3-hydroxylation: Evidence for a role in collagen supramolecular assembly

17:55 - 18:10 **Dieter Reinhardt**, Montreal, Canada
Mutations in fibrillin-1 leading to classical and neonatal Marfan syndrome cause differential protease susceptibilities and protein function

18:10 - 18:25 **Peter Bell**, Manchester, UK
The secretion of mutant V194D matrilin-3 is unaffected by the knock-out of matrilin-1 in a mouse model of MED

18:25 - 18:40 **Nicole Platz**, Cologne, Germany
Characterization of a chondrodysplasia-associated mutation in cartilage oligomeric matrix protein (COMP) that disrupts collagen fibrillogenesis

18:40 - 18:55 **Toshitaka Oohashi**, Okayama, Japan
Bral1: its role in diffusion barrier formation and conduction velocity in the CNS

18:55 - 19:00 Closing remarks

Workshop W03: Tissue Regeneration and Endothelial / Epithelial barriers

Monday, July 5th, 17:00 – 19:00 *Sanada (Davos Congress Center)*

Moderators: **Wilhelm Aicher**, Tübingen, Germany
Francois X. Maquart, Reims, France

- 17:00 - 17:10 Opening remarks
- 17:10 - 17:25 **Naphtali Savion**, Tel Hashomer, Israel
Development of a ribose cross-linked injectable fibrinogen for soft tissue augmentation
- 17:25 - 17:40 **Morgan Dos Santos**, Lyon, France
Analysis of perlecan expression in the epidermal basement membrane during skin ageing
- 17:40 - 17:55 **Anita Driessen-Mol**, Eindhoven, Netherlands
The elastic network - the missing link in human heart valve tissue engineering
- 17:55 - 18:10 **Anthony Weiss**, Sydney, Australia
Synthetic elastin-based vascular grafts with mechanical properties matching the human vasculature
- 18:10 - 18:25 **Rolf Brenner**, Ulm, Germany
Adhesion to collagen I, II, VI or hyaluronic acid differentially influences haptotaxis and chemotactic response of human MSC to PDGF-BB, IGF-I, BMP-2 and VEGF-A
- 18:25 - 18:40 **Mikko Lammi**, Kuopio, Finland
Repair of osteochondral defects with recombinant human type II collagen gel and autologous chondrocytes in a rabbit model
- 18:40 - 18:55 **Zsuzsa Jenei-Lanzl**, Regensburg, Germany
Noradrenalin (NA) suppresses chondrogenic differentiation of mesenchymal stem cells via β -adrenergic receptor
- 18:55 - 19:00 Closing remarks

Workshop W04: Synthesis and remodeling of extracellular matrix

Monday, July 5th, 17:00 – 19:00 *Aspen (Davos Congress Center)*

Moderators: **Chris Overall**, Vancouver, Canada
Hideaki Nagase, London, UK

17:00 - 17:10 Opening remarks

17:10 - 17:25 **Claire Hartley**, Manchester, UK
ARMET and CRELD2, two recently described stress response proteins, are implicated in a murine model of multiple epiphyseal dysplasia

17:25 - 17:40 **Dieter Reinhardt**, Montreal, Canada
The role of fibronectin in microfibril assembly and homeostasis

17:40 - 17:55 **Cassandra Baughman**, Boston, USA
Heparin stimulates elastogenesis: Application to silk-based vascular grafts

17:55 - 18:10 **Patrick Henriët**, Bruxelles, Belgium
Ovarian steroids, MAPKs and aspartic proteinases cooperate to control cell-type specific tissue breakdown in the human endometrium

18:10 - 18:25 **David Hulmes**, Lyon, France
New insights into the mechanism of action of procollagen C-proteinase enhancers

18:25 - 18:40 **Gergely Groma**, Cologne, Germany
ADAMTS-4 and -5 cleave matrilin-4 in late Golgi vesicles present in chondrocytes of defined differentiation states

18:40 - 18:55 **Chris Overall**, Vancouver, Canada
Proteomics deciphers new signaling roles for MMPs in the processing of intracellular proteins located in the extracellular environment

18:55 - 19:00 Closing remarks

Workshop W05: Connective tissue, development and biomechanical forces

Tuesday, July 6th, 11:00 – 13:00 *Sanada (Davos Congress Center)*

Moderators: **Florence Ruggiero**, Lyon, France
Mathias Chiquet, Bern, Switzerland

- 11:00 - 11:10 Opening remarks
- 11:10 - 11:25 **Alvise Schiavinato**, Padova, Italy
Expression and functional role of Emilin-3, a peculiar member of the emilin/multimerin family
- 11:25 - 11:40 **Nicola Facchinello**, Padova, Italy
Dissecting the role of Emilin-1 in arterial hypertension through the use of a conditional and inducible gene knockout in the mouse
- 11:40 - 11:55 **Maria B. Asparuhova**, Basel, Switzerland
Transcriptional control of Tenascin-C expression by megakaryoblastic leukemia factor-1 (MKL1)
- 11:55 - 12:10 **Róza Zákány**, Debrecen, Hungary
Plasmamembrane cation channels and cytosolic Ca²⁺-homeostasis of differentiating chicken chondrocytes
- 12:10 - 12:25 **Rita Dreier**, Münster, Germany
Heparan sulfate regulated, transglutaminase mediated formation of hedgehog multimers and their role in endochondral ossification
- 12:25 - 12:40 **Marjolein Blaauboer**, Amsterdam, Netherlands
Cyclic mechanical stretch reduces myofibroblast differentiation of primary lung fibroblasts
- 12:40 - 12:55 **Peter Hollosi**, Copenhagen, Denmark
Characterisation of stromal-cellular mechanotransduction through syndecan-4
- 12:55 - 13:00 Closing remarks

Workshop W06: Stem cells and stem cell niches

Tuesday, July 6th, 11:00 – 13:00 *Aspen I (Davos Congress Center)*

Moderators: **Aleksander Sieron**, Katowice, Poland
Gerd Klein, Tübingen, Germany

- 11:00 - 11:10 Opening remarks
- 11:10 - 11:25 **Szabolcs Felszeghy**, Debrecen, Hungary
Notch signalling is required for the survival of epithelial stem cells in the continuously growing mouse incisor
- 11:25 - 11:40 **Stephane Brézillon**, Reims, France
Role of lumican in the differentiation of human bone-marrow mesenchymal stem cells (MSC) into endothelial progenitor cells (EPC)
- 11:40 - 11:55 **Anna Szydło**, Katowice, Poland
Notch signaling pathway activation during early in vitro differentiation of liver-derived mesenchymal stem cells to osteoblasts
- 11:55 - 12:10 **Antonella Forlino**, Pavia, Italy
Adult stem cells differentiation toward adipogenesis is preferred in the murine model for Osteogenesis Imperfecta BrtlIV
- 12:10 - 12:25 **Sabine Stöckl**, Regensburg, Germany
In vitro gene knockdown of Sox9 affects cell survival and osteogenic differentiation of rMSC
- 12:25 - 12:40 **Hanne-Kaisa Honkanen**, Oulu, Finland
Collagen XVIII regulates tumor multiplicity and lymphangiogenesis in a chemical mouse skin carcinogenesis model
- 12:40 - 12:55 **Richard, Salisbury**, Manchester, UK
Interactions with the extracellular matrix influences mesenchymal stem cell differentiation towards a vascular smooth muscle cell phenotype
- 12:55 - 13:00 Closing remarks

Workshop W07: Extracellular matrix in skin and wound healing and as a source of biomolecules

Tuesday, July 6th, 11:00 – 13:00 *Aspen II (Davos Congress Center)*

Moderators: **Patricia Rousselle**, Lyon, France
Taina Pihlajaniemi, Oulu, Finland

11:00 - 11:10 Opening remarks

11:10 - 11:25 **Joseph Merregaert**, Antwerp, Belgium
Phospholipid scramblase 1 is secreted and interacts with the extracellular matrix protein 1 in the dermo epidermal junction zone of human skin

11:25 - 11:40 **Pallavi Agarwal**, Cologne, Germany
Functional role of COMP in skin connective tissue architecture and pathologically altered skin

11:40 - 11:55 **Wei Li**, Los Angeles, USA
A 124-amino acid peptide from secreted heat shock protein-90 (HSP90) is a novel wound repair agent

11:55 - 12:10 **Jan Kormann**, Cologne, Germany
Lack of PASCIN 2 impairs attachment, spreading and migration of primary dermal fibroblasts

12:10 - 12:25 **Clair Baldock**, Manchester, UK
The role of dimerisation and substrate exclusion in the regulation of Tolloid family proteinases

12:25 - 12:40 **Elise Lavergne**, Rennes, France
Blocking Wnt signaling by a proteolyzed form of collagen XVIII containing a frizzled domain inhibits in vivo tumor growth in cells carrying active β -catenin

12:40 - 12:55 **Nynke Hosper**, Groningen, Netherlands
Intra-uterine tissue engineering of full thickness skin defects in a fetal sheep model

12:55 - 13:00 Closing remarks

Workshop W08: Extracellular matrix in angiogenesis and tumor biology

Tuesday, July 6th, 14:30 – 16:30 *Sanada (Davos Congress Center)*

Moderators: **Kristofer Rubin**, Uppsala, Sweden
Jorma Keski-Oja, Helsinki, Finland

14:30 - 14:40 Opening remarks

14:40 - 14:55 **Marion Kusche-Gullberg**, Bergen, Norway
The role of Ext1 in tumor-stroma interactions

14:55 - 15:10 **Enrico Martina**, Basel, Switzerland
Tenascin-W is overexpressed in glioma-associated blood vessels and stimulates angiogenesis in vitro

15:10 - 15:25 **Mari Aikio**, Oulu, Finland
Arresten, a collagen-derived angiogenesis inhibitor, suppresses carcinoma invasiveness by inducing apoptosis and mesenchymal-to-epithelial transition

15:25 - 15:40 **Lena Bengestrate**, Cologne, Germany
Identification of microRNAs promoting endothelial-perivascular cell interactions

15:40 - 15:55 **Sanna-Maria Karppinen**, Oulu, Finland
Localisation of type XV and XVIII collagens in malignant human skin

15:55 - 16:10 **Renata Gustafsson**, Uppsala, Sweden
Integrin- β 3 deficiency causes a fibrotic tumor microenvironment and increased tumor interstitial fluid pressure in syngeneic mouse carcinoma

16:10 - 16:25 **Tuula Salo**, Oulu, Finland
A myoma organotypic model provides a natural human microenvironment for cell invasion studies

16:25 - 16:30 Closing remarks

Workshop W09: Extracellular matrix in the musculoskeletal system

Tuesday, July 6th, 14:30 – 16:30 *Aspen (Davos Congress Center)*

Moderators: **Madeleine Durbeej-Hjalt**, Lund, Sweden
Jelena Gavrilovic, Norwich, UK

14:30 - 14:40 Opening remarks

14:40 - 14:55 **Janine Meienberg**, Zurich, Switzerland
True haploinsufficiency of COL3A1 causes aortic dissection

14:55 - 15:10 **Heli Härönen**, Oulo, Finland
Both transmembrane and shed collagen XIII are required for the neuromuscular junction integrity

15:10 - 15:25 **Joan C. Marini**, Bethesda, USA
Absence of cyclophilin B causes recessive osteogenesis imperfecta but does not impair type I collagen peptidyl-prolyl isomerization

15:25 - 15:40 **Daniela Zwolanek**, Cologne, Germany
Collagen XXII interacts with integrins via new motifs and links tenocytes to myocytes

15:40 - 15:55 **Antonio Rossi**, Pavia, Italy
Defective proteoglycan sulfation of the growth plate zones in the dtd mouse causes reduced chondrocyte proliferation via an altered Indian hedgehog signalling

15:55 - 16:10 **Benedetta Gualeni**, Manchester, UK
Model systems to study pseudoachondroplasia resulting from the common p.D469Del COMP mutation provide novel insights in to disease mechanisms

16:10 - 16:25 **Shireen Lamande**, Parkville, Australia
Mutations in TRPV4 cause an inherited arthropathy of hands and feet

16:25 - 16:30 Closing remarks

Workshop W10: Hot Topics

Wednesday, July 7th, 11:00 – 12:30 *Hotel Schweizerhof*

Moderators: **Frank Zaucke**, Cologne, Germany
Dieter Reinhardt, Montreal, Canada

- 11:00 - 11:15 **Barbara Maertens**, Hilden, Germany
Efficient protein synthesis of active Fab fragments and other disulfide bonded proteins in cell lysates obtained from *Spodoptera frugiperda*
- 11:15 - 11:30 **Richard Wilson**, Melbourne, Australia
Proteomic profiling of cartilage ECM formation and maturation using sequential protein extraction and quantitative mass spectrometry
- 11:30 - 11:45 **Kathryn Cheah**, Hong Kong, Hong Kong
Genetic and genomic analyses of chondrocyte adaptation to ER stress in vivo
- 11:45 - 12:00 **Fransiska Malfait**, Ghent, Belgium
The RIN2 syndrome: a new autosomal recessive connective disorder caused by deficiency of Ras and Rab interactor 2 (RIN2)
- 12:00 - 12:15 **Lotta Seppinen**, Oulu, Finland
Lack of collagen XVIII and overexpression of its endostatin domain interfere with hair follicle growth and cycling
- 12:15 - 12:30 **Karin Bauer**, Regensburg, Germany
Slit2 facilitates interaction of P-cadherin with Robo3 and inhibits cell migration in head and neck squamous cell carcinoma