



2010 FASEB Summer Research Conferences  
 Thrombospondins and other Matricellular Proteins in Tissue  
 Organization and Homeostasis  
 July 18-23, 2010  
 Snowmass Village, Colorado

Co-Organizers:

**David D. Roberts, Ph.D.**  
 NCI, NIH  
 Bethesda, MD

**Joanne E. Murphy-Ullrich, Ph.D.**  
 University of Alabama at Birmingham  
 Birmingham, AL

*Sunday, July 18, 2010*

- |                  |   |
|------------------|---|
| 4:00PM – 9:00PM  | Conference Registration   |
| 6:00PM – 7:00 PM | FASEB Opening Reception   |
| 7:00PM – 8:30 PM | Dinner  |
| 8:45PM – 9:20 PM | William C. Sessa, Yale University School of Medicine.<br><i>“Reactive nitrogen species in cardiovascular pathophysiology”</i>                             |
| 9:20PM - 10:00PM | David R. Clemmons, University of North Carolina at Chapel Hill<br><i>“SHPS1 and CD47 regulation of IGF1 receptor signaling in vascular smooth muscle”</i> |

*Monday, July 19, 2010*

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|------------------------------------|---|
| 7:30AM – 9:00AM                    | Breakfast   |
| <b>Session 1: 9:00AM – 12:15PM</b> | <b>Structural Biology and Genetics of Matricellular Proteins</b><br><i>Deane F. Mosher, University of Wisconsin</i> |

9:00AM – 9:15AM	Welcome from FASEB
9:15AM - 9:45AM	<b>Deane F. Mosher</b> , University of Wisconsin, “ <i>Structural studies provide insights into thrombospondin functions</i> ”
9:45AM –10:15AM	<b>Suneel Apte</b> , Cleveland Clinic, “ <i>ADAMTS proteins and cellular regulation by extracellular matrix</i> ”
10:15AM – 10:30 AM	Short Talk <b>Bernadette C. Holdener</b> <i>O-Fucosylation of Thrombospondin Type 1 Repeats is Required to Restrict Epithelial to Mesenchymal Transition (EMT) During Mouse Gastrulation</i>
10:30AM – 11:00AM	Group photo & FASEB Sponsored Coffee Break
11:00AM – 11:30AM	<b>William R. Montfort</b> , University of Arizona, “ <b>CCN proteins: central signaling hub</b> ”
11:30AM – 12:00PM	<b>Josephine Adams</b> , University of Bristol “ <i>The Evolution of Thrombospondins and their Ligand-binding Capacities: Major Innovations in Chordates</i> ”
12:00PM – 12:15PM	Short Talk <b>James P Maloney</b> <i>Common Human Genetic Variation in THBS1</i>
12:15PM – 1:15PM	Lunch
	<b>Free Afternoon</b>
4:00PM – 6:00PM	Poster Session 1
6:00PM – 7:00PM	Dinner
<b>Session 2: 7:00PM – 9:45PM</b>	<b>Matricellular Proteins in Cardiovascular Disease and Angiogenesis</b> <b>William A Frazier</b> , Washington University St Louis
7:00PM - 7:30PM	<b>Edward F. Plow</b> , Cleveland Clinic, “ <i>Phenotypic analysis of thrombospondin-4 null mice</i> ”
7:30PM – 8:00PM	<b>Nader Sheibani</b> , University of Wisconsin, “ <i>Thrombospondins and Retinal Vascular Homeostasis</i> ”
8:00PM – 8:15PM	Short Talk <b>Giulia Taraboletti</b> <i>Rational design of antiangiogenic agents based on thrombospondin-1</i>
8:15PM – 8:30PM	Break

- 8:30PM – 8:45PM Short Talk **Lee B. Rivera** *Regulation of Pericyte Migration by Secreted Protein Acidic and Rich in Cysteine (SPARC)*
- 8:45PM – 9:15PM **Amy Bradshaw**, Medical University of South Carolina, *“The role of SPARC in cardiac hypertrophy”*
- 9:15PM – 9:45PM **Andrei Thomas-Tikhonenko**, University of Pennsylvania, *“Control of anti-angiogenic TSR proteins by microRNAs”*

Tuesday, July 20, 2010

7:30AM – 9:00AM Breakfast

**Session 3: 9:00AM – 12:15PM**

**Roles of matricellular proteins in injury and stress responses**  
**David D. Roberts**, NIH

9:00AM - 9:30AM **Themis Kyriakides**, Yale University, *“Thrombospondin-2 regulation and function during ischemia-induced angiogenesis.”*

9:30AM –10:00AM **Jeff S. Isenberg**, University of Pittsburgh, *“Thrombospondin-1 Supports Blood Pressure by Limiting Endothelial Nitric Oxide Synthase Activation and Endothelial-Dependent Vasorelaxation”*

10:00AM – 10:15AM Short Talk **Monika Kasprzycka** *Early tenascin-C expression is associated with late fibrosis in renal allografts*

10:15AM – 10:45AM FASEB Sponsored Coffee Break

10:45AM – 11:15AM **David D. Roberts**, NIH, *“Thrombospondin-1/CD47 signaling and radiation injury responses”*

11:15AM – 12:00PM **Lester Lau**, University of Illinois, *“CCN1 and inflammation”*

12:00PM – 12:15PM Short Talk **Andrew Leask** *CCN2-expressing pericytes are required for skin fibrosis*

12:15PM – 1:15PM Lunch

**Free Afternoon**

4:00PM – 6:00PM Poster Session 2

6:00PM – 7:00PM Dinner

**Session 4: 7:00PM – 9:45PM**

**Matricellular proteins in fibrosis and tissue remodeling**

**Joanne E. Murphy-Ullrich**, University of Alabama at Birmingham

7:00PM - 7:30PM

**Christian Hugo**, Universitätsklinikum Carl Gustav Carus an der Technischen Universität Dresden, *“Thrombospondins 1 and 2 in fibrotic kidney disease”*

7:30PM – 8:00PM

**Margarete Goppelt-Struebe**, University of Erlangen-Nürnberg, *“Mechanical signaling and CTGF/CCN2 gene transcription in renal fibrosis”*

8:00PM – 8:15PM

Short Talk **Bruce Riser**, *The Yin / Yang of CCN Molecules in the Progression of Fibrosis: Is CCN3 an Endogenous Novel Anti-Fibrotic Molecule?*

8:15PM – 8:30PM

Break

8:30PM – 8:45PM

Short Talk **Douglas W Hamilton** *Spatiotemporal expression of periostin in skin development and excisional wound healing: Implications for chronic wounds and fibrosis*

8:45PM – 9:15PM

**Joanne Murphy-Ullrich**, University of Alabama at Birmingham, *“The role of TSP1 signaling through cell surface calreticulin in tissue remodeling”*

9:15PM – 9:45PM

**Stephane Heymans**, Cardiovascular Research Institute and School Maastricht, *“Matricellular proteins protect against cardiac failure by reinforcing matrix integrity and improving myocyte survival”*

**Wednesday, July 21, 2010**

7:30AM – 9:00AM

Breakfast

**Session 5: 9:00AM – 12:15PM**

**Matricellular proteins in immunity**

**Ruth Chiquet-Ehrismann**, Friedrich Miescher Institute

9:00AM - 9:30AM

**Stéphane Germain**, INSERM, *“Modulation of macrophage activation by thrombospondin-1”*

9:30PM – 10:00AM

**Sharmila Masli**, Schepens Eye Research Institute, *Thrombospondin-1 dependent mechanisms of immune regulation by ocular antigen presenting cells*

10:00AM – 10:15AM

Short Talk **Gema Martin-Manso** *Thrombospondin-1 Modulates Leukocyte Recruitment and Activation During Acute Inflammation*

10:15AM – 10:45AM	FASEB Sponsored Coffee Break
10:45AM – 11:15AM	<b>Kim Midwood</b> , Imperial College, <i>“Tenascin-C: an endogenous danger signal that drives chronic joint inflammation”</i>
11:15AM – 11:35PM	Short Talk <b>Thomas W. Miller</b> <i>Hydrogen sulfide enhances T-cell proliferation and activation in a TSP1/CD47 dependent manner</i>
11:35PM – 11:55PM	Short Talk <b>Pius Nde</b> <i>Trypanosoma cruzi regulates Thrombospondin-1 and its interactome during the early stages of infection</i>
12:15PM – 1:15PM	Lunch
	<b>Free Afternoon</b>
4:00PM – 6:00PM	Poster Session 3
6:00PM – 7:00PM	Dinner
<b>Session 6: 7:00PM – 9:30PM</b>	<b>Matricellular proteins in musculoskeletal development and disease</b> <b>Jacqueline T. Hecht</b> , University of Texas Medical School
7:00PM - 7:30PM	<b>Jacqueline T. Hecht</b> , University of Texas Medical School, <i>“Expression of mutant COMP causes intracellular retention in a PSACH mouse model”</i>
7:30PM – 8:00PM	<b>Karen Lyons</b> , UCLA, <i>“Regulation of Chondrocyte Differentiation by CCN2 and CCN3”</i>
8:00PM – 8:15PM	Short Talk <b>Andrea I. Alford</b> <i>Thrombospondin-2 promotes collagen fiber assembly and stability in the osteoblast-derived extracellular matrix</i>
8:15PM – 8:30PM	Break
8:30PM – 9:00PM	<b>Akira Kudo</b> , Tokyo Institute of Technology, <i>Periostin function in fibrillogenesis under mechanical stress</i>
9:00PM – 9:30PM	<b>Kurt Hankenson</b> , University of Pennsylvania, <i>“Thrombospondins in bone formation and regeneration”</i>

Thursday, July 22, 2010

7:30AM – 9:00AM	Breakfast
<b>Session 7: 9:00AM – 12:30PM</b>	<b>Metabolic regulation and signaling of matricellular proteins</b> <b>Olga I. Stenina</b> , Cleveland Clinic
9:00AM - 9:30AM	<b>Philip Kern</b> , University of Kentucky College of Medicine, “ <i>Role of thrombospondin in the development of insulin resistance during obesity</i> ”
9:30AM –10:00AM	<b>Olga Stenina</b> , Cleveland Clinic, “ <i>Cell type specific regulation of TSP-1 expression in vascular cells by glucose</i> ”
10:00AM – 10:15AM	Short Talk <b>Chuhan Chung</b> <i>Pigment Epithelium-Derived Factor (PEDF) Deficiency Enhances Pancreatic Fibrosis through Adipose-Related and Matrix Proteins</i>
10:15AM – 10:45AM	FASEB Sponsored Coffee Break
10:45AM – 11:15AM	<b>William A. Frazier</b> , Washington University St Louis, “ <i>Thrombospondin-1 and CD47: role in aging and metabolic syndrome</i> ”
11:15AM – 12:00PM	<b>Michael M. Wang</b> , University of Michigan, “ <i>TSP2 activation of Notch signaling: Mechanisms and consequences</i> ”
12:00PM – 12:30PM	Business Meeting
12:30PM – 1:30PM	Lunch
	<b>Free Afternoon</b>
1:00PM	<b>Optional Organized Group Activity</b>
4:00PM – 6:00PM	Poster Session 4 – Optional
6:00PM – 7:30PM	Dinner
<b>Session 8: 7:00PM – 9:45PM</b>	<b>Matricellular proteins in Carcinogenesis and Tumor Progression</b> <b>Jack Lawler</b> , Harvard Medical School
7:00PM - 7:30PM	<b>Jack Lawler</b> , Harvard Medical School, “ <i>The role of thrombospondin-1 and -5 in tumor progression</i> ”
7:30PM – 8:00PM	<b>Linda Gutierrez</b> , Wilkes University, “ <i>Thrombospondin 1 in colorectal carcinogenesis</i> ”

- 8:00PM – 8:15PM Short Talk **Alexander Zaslavsky** *Thrombospondin-1 and Regional Control of Tumor Growth*
- 8:15PM – 8:30PM Break
- 8:30PM – 8:45PM Short Talk **María J. Calzada** *Hypoxia down-regulates TSP1 expression in Renal Clear Cell Carcinoma cell lines in a HIF-independent manner*
- 8:45PM – 9:15PM **Gertraud Orend**, INSERM Strasbourg, *“Tenascins in cancer”*
- 9:15PM – 9:45PM **Jim Petrik**, University of Guelph, *“Treatment with the thrombospondin-1 mimetic peptide ABT-898 induces tumor regression and prolongs survival in a mouse model of epithelial ovarian cancer”*

Friday, July 23, 2010

7:30AM – 8:30AM Breakfast

**Session 9: 8:30AM – 12:15PM**

**Neurobiology and Developmental Biology of matricellular proteins**  
**Richard P. Tucker**, University of California at Davis

- 8:30AM - 9:00AM **Talila Volk**, Weizmann Institute of Science, Rehovot, *“Molecular mechanisms directing proper formation of the Drosophila myotendinous junction revealed by slowdown-dependent regulation of thrombospondin distribution”*
- 9:00AM – 9:30AM **Cagla Eroglu**, Duke University Medical School, *“How do Thrombospondins Control Central Nervous System Synaptogenesis?”*
- 9:30AM – 9:45AM Short Talk **Z David Luo** *Thrombospondin-4 induces spinal pre-synaptic hyperexcitability and neuropathic pain states*
- 9:45AM – 10:00AM FASEB Sponsored Coffee Break
- 10:00AM – 10:15AM Short Talk **Shibnath Ghatak** *CCN1/2 promotes synthesis of HA, and HA-induced downstream cell survival signaling pathways necessary for the formation of the atrioventricular septal complex (AVSC)*
- 10:15AM – 10:45AM **Richard P. Tucker**, University of California at Davis, *“The functions of tenascin-W during development”*

10:45AM – 11:15AM	<b>Ruth Chiquet-Ehrismann</b> , M.E. Friedrich Miescher Institute, <i>“Tenascins in development and human disease”</i>
11:15AM – 11:30AM	Closing Comments
11:30AM	Departure Boxed Lunches Available

END OF CONFERENCE

For additional information contact:

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