



2010 FASEB Summer Research Conferences
The Biology of Calpains in Health and Disease
25-30 July, 2010
Carefree, Arizona

Co-Organizers:

Peter L. Davies, Ph.D.
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Jim Geddes, Ph.D.
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Sunday, July 25, 2010

4:00PM – 9:00PM

Conference Registration

6:00PM – 7:00 PM

FASEB Opening Reception

7:00PM – 8:30 PM

Dinner

8:45PM – 10:00PM

Douglas R. Green, St. Jude Children's Hospital,
Memphis
"Proteolysis and Cell Death"

Monday, July 26, 2010

7:30AM – 9:00AM

Breakfast

Free Morning

12:00PM – 1:00PM

Lunch

Session 1a: 1:00PM – 2:30 PM

Tribute to Darrel Goll

Session Chair Mohammad Koohmaraie, U.S. Dept.
Agriculture

1:00PM – 1:15PM Welcome from FASEB

1:15PM -1:45PM Ron Melgren, University of Toledo
"A Darrel Goll Legacy: Calpains in cytoskeletal reorganization"

1:45PM – 2:15PM Valery Thompson, University of Arizona
"Calpain Activity in HeLa Cells"

2:15PM – 2:30PM Tributes from other conference participants

2:30PM – 3:00PM Group photo & FASEB Sponsored Coffee Break

Session 1b: 3:00PM – 4:15PM

Calpains in Animal Science

Session Chair Mohammad Koohmaraie, U.S. Dept. Agriculture

3:00PM – 3:30PM René Lametsch, University of Copenhagen, Denmark
"Postmortem Activity of Calpains"

3:30PM – 4:00PM Tim Parr, University of Nottingham, UK
"Calpain proteolytic system in muscle"

4:00PM – 4:15PM Short Talk Selected From Submitted Abstracts

4:15PM – 6:00PM Free Time

6:00PM – 7:00PM Dinner

Session 2: 7:00PM – 9:45PM

Challenging the System

Session Chair Peter Greer, Queen's University

7:00PM – 7:30PM Takaomi Saïdo, RIKEN Brain Science Institute, Japan
"Triple knockout mice deficient in calpain 1, calpain 2, and calpastatin: vital role of the calpain-calpastatin system for life"

7:30-PM -8:00PM Kathy Saatman, University of Kentucky
"Effects of calpastatin overexpression and deficiency in traumatic brain injury"?

8:00PM – 8:15PM Short Talk Selected From Submitted Abstracts

8:15PM – 8:30PM Break

8:30PM – 8:45PM Short Talk Selected From Submitted Abstracts

8:45PM – 9:15PM Bob Neumar, University of Pennsylvania
"Calpains 1 and 2 in excitotoxicity and brain ischemia"

9:15PM – 9:45PM

Masako Shimada, Massachusetts General
Hospital/Harvard Medical School
“Calpain 4 knockdown in bone”

Tuesday, July 27, 2010

7:30AM – 9:00AM

Breakfast

Free time

10:00AM – 12:00PM

POSTER SESSION

12:00PM – 1:00PM

Lunch

Session 3: 1:00PM – 4:15PM

Roles and Regulation

Session Chair Isabelle Richard, Généthon, Evry,
France

1:00PM – 1:30PM

Anna Huttenlocher, University of Wisconsin
“Calpain proteolysis in cell motility”

1:30PM – 2:00PM

Claudio Schneider, LNCIB, Trieste, Italy
“Modulators of stress/damage”

2:00PM – 2:15PM

Short Talk Selected From Submitted Abstracts

2:15PM – 2:45 PM

FASEB Sponsored Coffee Break

2:45PM – 3:15PM

Karen Beningo, Wayne State University
*“The Impact of Calpains on Mechanical Forces during
Cell Migration”*

3:15PM – 3:45PM

Michel Baudry, University of Southern California
*“Phosphorylation-mediated regulation of m-calpain in
brain: new insights into its physiological functions”*

3:45PM – 4:00PM

Short Talk Selected From Submitted Abstracts

4:00PM – 4:15PM

Short Talk Selected From Submitted Abstracts

4:15PM – 6:00PM

Free Time

6:00PM – 7:00PM

Dinner

Session 4: 7:00PM – 9:45PM

Aberrant Roles in Disease

Session Chair Melissa Spencer, UCLA

7:00PM - 7:30PM

Ralph Nixon, New York University Medical Center
*“Calpain-calpastatin regulation in Alzheimer’s
disease pathogenesis and therapy”*

7:30PM – 8:00PM	Barbara Ehrlich, Yale University <i>“Calpains and cardiac hypertrophy”</i>
8:00PM – 8:15PM	Short Talk Selected From Submitted Abstracts
8:15PM – 8:30PM	Break
8:30PM – 8:45PM	Short Talk Selected From Submitted Abstracts
8:45PM – 9:15PM	David Park, University of Ottawa, Canada <i>“Role of calpains in the CNS”</i>
9:15PM – 9:45PM	Doron Greenbaum, University of Pennsylvania <i>“Parasites Hijack Human Calpains to Escape from their Host Cells”</i>

Wednesday, July 28, 2010

7:30AM – 9:00AM Breakfast

Free Morning

12:00PM – 1:00PM Lunch

Session 5: 1:00PM – 4:15PM

Structure and Function

Session Chair Dorothy Croall, University of Maine

1:00PM – 1:30PM	Robyn Murphy, La Trobe University, Australia <i>“Activation of calpains in skeletal muscle is tightly regulated by calcium”</i>
1:30PM – 2:00PM	Mark D. Turner, Institute of Cell and Molecular Science, London, UK <i>“Regulation of exocytosis by calpain-10”</i>
2:00PM – 2:15PM	Short Talk Selected From Submitted Abstracts
2:15PM – 2:45 PM	FASEB Sponsored Coffee Break
2:45PM – 3:15PM	Melissa Spencer, UCLA <i>“Studies of the Diverse Cellular Roles of Calpain 3”</i>
3:15PM – 3:45PM	Isabelle Richard, G�n�thon, Evry, France <i>“Calpain 3 and its partner titin in muscular dystrophies”</i>
3:45PM – 4:00PM	Short Talk Selected From Submitted Abstracts
4:00PM – 4:15PM	Short Talk Selected From Submitted Abstracts

4:15PM – 6:00PM Free Time

6:00PM – 7:00PM Dinner

Session 6: 7:00PM – 9:45PM

Injury and Biomarkers

Session Chair Name, Jim Geddes, University of Kentucky

7:00PM - 7:30PM

Brian Polster, University of Maryland
“Visualizing calpain/bioenergetic interactions in neuronal injury”

7:30PM – 8:00PM

Kevin Wang, Banyan Biomarkers
“Contrasting the Roles of Calpain and Caspases in neuronal injury”

8:00PM – 9:45PM

POSTER SESSION

Thursday, July 29, 2010

7:30AM – 9:00AM

Breakfast

**Free Morning
Organized Optional Group Activity**

12:00PM – 1:00PM

Lunch

Session 7: 1:00PM – 4:15PM

Mechanisms and Inhibitors

Session Chair Peter Davies, Queen’s University

1:00PM – 1:30 PM

Andrew Abell, University of Adelaide, Australia
“Conformationally constrained inhibitors of Calpain for the treatment of Cataract - an eye to the future”

1:30PM -2:00 PM

John Anagli, Henry Ford Health System, Detroit
“Treatment and mechanistic studies of stroke using a calpastatin-derived calpain inhibitor”

2:00PM – 2:15PM

Short Talk Selected From Submitted Abstracts

2:15PM – 2:45 PM

FASEB Sponsored Coffee Break

2:45PM – 3:15PM

Masatoshi Maki, Nagoya University, Japan
“Function of the MIT domain of calpain 7 in activation and cellular localization”

3:15PM – 3:45PM

Tudor Moldoveanu, St. Jude Children’s Research Hospital
“Interactions of calpains and inhibitors”

3:45PM – 4:15PM **Business Meeting**

4:15PM – 6:00PM Free Time

6:00PM – 7:00PM Dinner

Session 8: 7:00PM – 9:45PM

Unconventional Calpains

Session Chair Hiroyuki Sorimachi, Tokyo Metropolitan Institute of Medical Science

7:00PM - 7:30PM Odd-Arne Olsen, Norwegian University of Life Sciences, Norway
“Was the transmembrane anchored DEK1 calpain key to the development of differentiated multicellular land plants?”

7:30PM – 8:00PM Gwyneth Ingram, University of Edinburgh
“Molecular mechanisms underlying co-ordination of plant morphogenesis and growth by the phyto-calpain DEK1”

8:00PM – 8:15PM Short Talk Selected From Submitted Abstracts

8:15PM – 8:30PM Break

8:30PM – 8:45PM Short Talk Selected From Submitted Abstracts

8:45PM – 9:15PM Kazuo Tonami, University of Tokyo, Japan
“Novel function of Calpain 6 in cytoskeletal organization and its implication in cell physiology”

9:15PM – 9:45PM Miguel Peñalva, Centro de Investigaciones Biologicas CSIC, Spain
“Role of fungal calpain 7 homologue PalB in the proteolytic activation of the alkaline ambient pH signal transducer PacC”

Friday, July 30, 2010

7:30AM – 8:30AM Breakfast

Session 9: 8:30AM – 11:30PM

Future Directions

Session Chairs, Peter Davies, Queen’s University
Jim Geddes, University of Kentucky

8:30AM – 9:15AM Hiroyuki Sorimachi, Tokyo Metropolitan Institute of Medical Science, Japan
“Unique functions of mammalian tissue-specific calpains”

9:15AM – 9:45AM	Panel Discussion on Future Directions
9:45AM – 10:00AM	FASEB Sponsored Coffee Break
10:00AM – 11:00AM	Panel Discussion (continued)
11:00AM – 11:30 AM	Murachi Awards To Be Announced
11:30AM	Departure, Box Lunches Available

END OF CONFERENCE

For additional information contact:

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