



2004 FASEB Summer Research Conferences
Biology of Calpains in Health and Disease
June 12-17, 2004
Omni Tucson National Golf Resort and Spa
Tucson, Arizona

Co-Organizers:

Dr. Neil E. Forsberg
Oregon State University
Corvallis, OR

Dr. Thomas Shearer
Oregon Health Sciences University
Portland, OR

Saturday, June 12, 2004

4:00p.m. – 9:00p.m.	Conference Registration
6:00p.m. – 7:00 p.m.	FASEB Opening Reception
7:00p.m. – 8:30 p.m.	Dinner
8:30p.m. – 9:00p.m.	After-dinner talk (TBA)

Sunday, June 13, 2004

7:30a.m. – 9:00a.m.	Breakfast
	Morning Free
10:00a.m. – 12:00p.m.	Poster Session 1 - Optional
12:00p.m. – 1:00p.m.	Lunch

Session 1: 1:00p.m. – 4:30p.m

The calpain gene family: Introduction

Session Chair: Dr. Ron Mellgren, Medical College of Ohio
and Dr. Neil Forsberg, Oregon State University

1:00p.m. - 1:45p.m.

Dr. Alan Barrett, Sanger Institute: Keynote Speaker

The world of cysteine peptidases, and the place of calpains in it.

1:45p.m. – 2:30p.m.	Dr. Darrel Goll, University of Arizona <i>The calpain system: remaining questions</i>
2:30p.m. – 3:00p.m.	Group photo and FASEB Sponsored Coffee Break
3:00p.m. – 3:45p.m.	Dr. Rogerio Margis, Federal University of Rio de Janeiro, Brazil <i>Phytocalpains: plant orthologous calcium-dependent cysteine proteases</i>
3:45p.m. – 4:30p.m.	Dr. Shirley Gil-Parado, LMU University, Germany <i>Unexpectedly different invasive phenotypes of calpain1- and 2-antisense cell lines: non-overlapping roles of ubiquitous calpains in vivo?</i>
6:00p.m. – 7:00p.m.	Dinner
Session 2: 7:00p.m. – 10:15p.m	Calpain structure: Biophysical aspects of Calpain activation Session Chairs: Dr. D. Goll (U. Arizona) and Dr. P. Davies (Queen's University)
7:00p.m. - 7:45p.m.	Dr. Tudor Moldoveanu, McGill University <i>Calpain activation and inhibition</i>
7:45p.m. – 8:30p.m.	Dr. Zongchao Jia, Queen's University <i>Structure of mu-like calpain</i>
8:30p.m. – 8:45p.m.	Break
9:00p.m. – 9:40p.m.	Dr. Peter Davies, Queen's University <i>The protease core of muscle-specific calpain, p94.</i>
9:40p.m. – 10:15p.m.	Dr. Narin Banik, South Carolina. <i>Axonal Damage and Neuron Death in MS and EAE: A Pivotal Role for Calpain in Demyelination</i>

Monday, June 14, 2004

7:30a.m. – 9:00a.m.	Breakfast
	Morning Free
10:00a.m. – 12:00p.m.	Poster Session 2 - Optional
12:00p.m. – 1:00p.m.	Lunch
Session 3: 1:00p.m. – 5:00p.m	Physiological roles of calpains Session Chairs: Dr. Hiroyuki Sorimachi (U. Tokyo) and Dr. Koichi Suzuki (Toray, Japan)

- 1:00p.m. - 1:30p.m. Dr. Shoji Hata, University of Tokyo
Physiological functions of stomach-specific calpain, nCL-2/calpain-8, revealed by genetically-modified mice
- 1:30p.m. – 2:15p.m. Dr. Athar Chishti, University of Illinois
Physiological function of mu-calpain in platelet signalling
- 2:15p.m. – 2:45p.m. FASEB Sponsored Coffee Break
- 2:45p.m. – 3:30p.m. Dr. Hiroyuki Sorimachi, University of Tokyo
Knock-in mice reveal novel functions of muscle-specific calpain p94/calpain-3 in non-muscle cells.
- 3:30p.m. – 4:15p.m. Dr. Alan Wells, University of Pittsburgh
Regulation of ubiquitous calpains by growth factors and chemokines during cell motility
- 4:15p.m. – 5:00p.m. Dr. Yashomati Patel, University of North Carolina
Calpain facilitates GLUT-4 vesicle translocation during insulin-stimulated glucose uptake in adipocytes
- 6:00p.m. – 7:00p.m. Dinner

Session 4: 7:00p.m. – 10:30p.m

Calpains and striated muscle disease

Session Chairs: Dr. M. Spencer (UCLA) and Dr. Isabelle Richard

- 7:00p.m. – 7:40p.m. Dr. Neil Forsberg, Oregon State University
Calpains in muscle protein turnover
- 7:40p.m. - 8:20p.m. Dr. Yasuko Ono, University of Tokyo
Development of an assay system for p94/calpain-3 toward diagnosis of muscular dystrophy
- 8:20p.m. – 9:00p.m. Dr. Melissa Spencer, UCLA
Linking calpain-3 to the sarcomere
- 9:00p.m. – 9:10p.m. Break
- 9:10p.m. – 9:50p.m. Dr. Gregory Cox, Jackson Laboratory
Testing the role of calpain-3 in mdm Mouse Muscular Dystrophy
- 9:50p.m. – 10:30p.m. Dr. Isabelle Richard, Genethon, France
Calpain-3 and Limb Girdle Muscular Dystrophy 2A

Tuesday, June 15, 2004

7:30a.m. – 9:00a.m. Breakfast

Morning Free

10:00a.m. – 12:00p.m. Poster Session 3 - Optional

12:00p.m. – 1:00p.m. Lunch

Session 5: 1:00p.m. – 4:30p.m

The calpains in pathology- I

Session Chairs: Dr. P. Tompa (Hungarian Academy of Science) and Dr. Y. Patel (UNC)

1:00p.m. - 1:45p.m.

Dr. Mayana Zatz, University of Sao Paulo, Brazil
How broad is clinical variability in calpainopathy?

1:45p.m. – 2:30p.m.

Dr. Thomas Shearer, Oregon Health Sciences University
Calpains and cataract

2:30p.m. – 3:00p.m.

FASEB Sponsored Coffee Break

3:00p.m. – 3:45p.m.

Dr. Jeff Widrick, Oregon State University
Calpains in muscle damage in exercise

3:45p.m. – 4:30p.m.

Dr. Mary Lokuta, University of Wisconsin
Calpain mechanisms in motility and chemotaxis

6:00p.m. – 7:00p.m.

Dinner

Session 6: 7:00p.m. – 10:15p.m

The calpains in pathology II

Session Chairs: Dr. S. Gil-Parado (LMU, Germany) and Dr. N. Tavernarakis (Greece)

7:00p.m. - 7:45p.m.

Dr. Roberta Gottlieb, Scripps Institute
Role of calpain in myocardial ischemia/reperfusion injury

7:45p.m. – 8:30p.m.

Dr. Nektarios Tavernarakis, IMBB, Greece
Calcium and protease cascades in neurodegeneration

8:30p.m. – 8:45p.m.

Break

9:00p.m. – 9:45p.m.

Dr. Mitsuyoshi Azuma, Senju Pharmaceuticals, Japan
Involvement of calpain in retinopathy

9:45p.m. – 10:15p.m.

Dr. Kevin Wang, University of Florida
The calpain “degradome”

Wednesday, June 16, 2004

7:30a.m. – 9:00a.m. Breakfast

Free Morning/Organized Activities
Times and Activities: TBD

10:00a.m. – 12:00p.m. Poster Session 4 - Optional

12:00p.m. – 1:00p.m. Lunch

Session 7: 1:00p.m. – 4:30p.m

Calpain inhibitors in the treatment of disease

Dr. K. Wang (U. Florida) and Dr. P. Friedrich (Hungarian Academy of Science)

1:00p.m. - 1:45p.m. Dr. Peter Friedrich, Hungarian Academy of Science
A novel small subunit for mammalian calpains

1:45p.m. – 2:30p.m. Dr. Ottavio Arancio, NYU School of Medicine
Calpain inhibitors: a treatment of Alzheimer's disease

2:30p.m. – 3:00p.m. FASEB Sponsored Coffee Break

3:00p.m. – 3:45p.m. Dr. Peter Tompa, Hungarian Academy of Sciences
Activation of calpains by fragments of its unstructured inhibitor, calpastatin

3:45p.m. – 4:30p.m. Dr. Alfred Stracher, (New York). Calpain inhibitors as therapeutic agents in neuromuscular and neurodegenerative diseases.

6:00p.m. – 7:00p.m. Dinner

Session 8: 7:00p.m. – 9:40 p.m

Agricultural applications of calpains

Session Chairs: Dr. Tom Shearer (Oregon Health Sciences University) and Dr. M. Koohmaraie (USDA-MARC).

7:00p.m. – 7:40p.m. Dr. Roy Bickerstaffe, Lincoln University, NZ
The role of calpain-3 and calpain-10 in meat tenderization

7:40p.m. – 8:20p.m. Dr. Mohammad Koohmaraie, USDA-MARC, Nebraska
The role of calpains in postmortem proteolysis and tenderness

8:20p.m. – 9:00p.m. Break

9:00p.m. – 9:40p.m. Dr. Didier Attaix, INRA, France
Involvement of the proteasome and lysosome in calpain-3-deficient mice

9:45p.m. – 10:20p.m.

Dr. Steven Lonergan, Iowa State University
Influence of nutrition on calpastatin in skeletal muscle

Thursday, June 17, 2004

7:30a.m. – 9:00a.m.

Breakfast

Session 9: 9:00a.m. – 12:15p.m

Calpains: Student Perspectives

Session Chair: Dr. R. Bickerstaffe (Lincoln U, NZ) and Dr. Y. Ono (U.Tokyo)

Speakers To Be Announced

Murachi Awards (TBA)

12:15p.m. – 1:30p.m.

Box Lunches Available

END OF CONFERENCE

For additional information contact:

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