

PANCREATITIS AND CALCIUM SIGNALLING
A BSG/PS/AGA/FDHN/GRG Research Workshop
at the Liverpool Medical Institution, Liverpool UK
Sunday 12th – Tuesday 14th November 2006
Convened by the Liverpool Medical Research Council Group

PROGRAMME

The objectives of this workshop are to review progress in understanding the pathogenesis of pancreatitis, to subject this understanding to constructive scrutiny with input from research workers outside gastroenterology, to enhance interchange of ideas and collaborations, to engage and encourage younger researchers in the field, and promote biomedical research through the participating associations and societies.

SUNDAY 12th NOVEMBER

4.00 pm onwards Arrival at Hope Street Hotel

MONDAY 13th NOVEMBER

Physiological and pathological calcium signalling

9.00 am Chair: Professor Robert Sutton, University of Liverpool
Professor OH Petersen, University of Liverpool
Overview of acinar cell calcium signalling

9.20 am Discussion

9.30 am Professor Anant Parekh, University of Oxford
Calcium entry in health and disease

9.50 am Discussion

10.00 am Professor Rosario Rizzuto, University of Ferrara
Critical subcellular compartments

10.20 am Discussion
Key discussant: Professor Steven Pandol, University of California LA

10.40 am *Refreshment break*

Interacting signalling mechanisms

11.00 am Chair: Professor Anant Parekh
Professor Steven Pandol
Protein kinase C isotypes in the mechanism of pancreatitis

11.20 am Discussion

11.30 am Professor Anna Gukovskaya, University of California LA
PI3-kinase in pancreatitis

11.50 am Discussion

12.00 pm Professor Alexei Tepikin, University of Liverpool
Nitric oxide

12.20 pm Discussion
Key discussant: Professor Shmuel Muallem, University of Texas

1.00 pm *Buffet lunch*

Premature digestive enzyme activation

Chair: Professor John Neoptolemos

- 2.00 pm Professor Pedro Verdugo, University of Washington
The granule, an intracellular ion oscillator:
implications for the pathology of secretion
- 2.20 pm Discussion
- 2.30 pm Dr Miklos Sahin-Toth, University of Boston
Determinants of activation and activity
- 2.50 pm Discussion
- 3.00 pm Professor Ashok Saluja, University of Massachusetts
Onset events in the apical pole
- 3.20 pm Discussion
- 3.30 pm Professor Markus Lerch, University of Greifswald
Early extracellular events
- 3.50 pm Discussion
Key discussant: Professor Anna Gukovskaya
- 4.10 pm *Refreshment break*
- 4.30 pm Physiological Society Lecture: Professor Shmuel Muallem
On the edge of discovery: how close are we to solving pancreatitis?
Introduction by Professor Ole Petersen

7.30 pm for 8.00 pm *Workshop Dinner at the London Carriage Works*

TUESDAY 14th NOVEMBER

NF kappa B, cytokines and immune mechanisms

Chair: Professor Alexei Tepikin

- 9.00 am Dr Ilya Gukovsky, University of California LA
Control and function of NF kappa B
- 9.20 am Discussion
- 9.30 am Professor Steven Pandol
Role of the pancreatic inflammatory response in the severity of
pancreatitis
- 9.50 am Discussion
- 10.00 am Professor Ashok Saluja
Role of neutrophils
- 10.20 am Discussion
Key discussant: Professor Markus Lerch
- 10.40 am *Refreshment break*

Mitochondrial injury

Chair: Professor Steven Pandol

11.00 am Professor Michael Duchen, University College London
Targets of mitochondrial injury

11.20 am Discussion

11.30 am Professor Andrew Halestrap, University of Bristol
Mitochondrial permeability transition pore

11.50 am Discussion

12.00 pm Dr Oleg Gerasimenko, University of Liverpool
Oxidative stress and free radicals

12.20 pm Discussion

Key discussant: Professor Rosario Rizzuto

1.00 pm Buffet lunch

Cell death pathways

Chair: Professor Ole Petersen

2.00 pm Professor Rosario Rizzuto
Mechanisms and consequences of apoptosis

2.20 pm Discussion

2.30 pm Professor Pierluigi Nicotera, University of Leicester
Determinants of cell survival

2.50 pm Discussion

3.00 pm Professor Anna Gukovskaya
Mechanisms mediating cell death responses in pancreatitis

3.20 pm Discussion

3.30 pm Professor Robert Sutton
Pancreatic acinar cell necrosis

3.50 pm Discussion

Key discussant: Professor Michael Duchen

4.10 pm Refreshment break

Key discussants' overviews

Chair: Professors Ole Petersen and Robert Sutton

4.30 pm Professor Steven Pandol

4.40 pm Professor Shmuel Muallem

4.50 pm Professor Anna Gukovskaya

5.00 pm Professor Markus Lerch

5.10 pm Professor Rosario Rizzuto

5.20 pm Professor Michael Duchen

5.30 pm Discussion

6.00 pm Departure

WE ARE GRATEFUL FOR SUPPORT AND SPONSORSHIP FROM:

British Society of Gastroenterology

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Gastroenterology Research Group

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Your participation as an attendee will be important to the success of this workshop. Places are limited with a number already allocated. Priority will be given to those who apply as soon as possible, and to those who are active in this or closely related areas, as scientists and/or clinicians. Please apply to r.sutton@liverpool.ac.uk, indicating your contribution and/or interest in the field, giving your contact details, and listing any selected relevant publications. We will inform you promptly if a place is available for you, with accommodation at the Hope Street Hotel, Liverpool should you wish. There will be no registration fee for this meeting or for meals on the programme, but attendees will be expected to pay their own travelling and hotel bills.