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Apoptosis and Cancer: the Bcl-2 family of proteins - Program

June 25-26, 2009 - Dartmouth College, New Hampshire USA

Register online at
www.abcam.com/Apoptosis_Cancer

Thursday, June 25

8:00am Registration

9:00am Welcome and introductions

Apoptotic functions of Bcl-2 family members (Chair: Conradt)

9:10am David Vaux (La Trobe University)
BH3-only proteins: accomplices or accessories to murder?

9:45am Richard Youle (National Institute of Neurological Disorders and Stroke)
Bcl-2 family proteins, apoptosis and mitochondrial morphogenesis

10:20am Introduction to Abcam

10:30am Coffee Break

Mechanisms of action of Bcl-2 family members

11:00am David Andrews (McMaster University)
Embedded together: The life and death consequences of interaction of the Bcl-2 family with membranes

11:35am Varda Shoshan-Barmatz (Ben-Gurion University)
The anti-apoptotic protein Bcl-2 regulates apoptosis via interaction with the mitochondrial protein, VDAC1

11:50am Chunxin Wang (National Institute of Neurological Disorders and Stroke)
Multiple steps of Bax activation revealed by loss-of-function Bax mutants

12:05pm Jialing Lin (University of Oklahoma)
Interfaces of Bax homo- and Bax/Bcl-2 hetero-oligomerization are distinct but overlapping

12:20pm Lunch - Thayer Dining Hall. We will walk over together after talk.

Models for apoptosis studies (Chair: Hardwick)

1:20pm Barbara Conradt (Dartmouth Medical School)
Regulation and function of Bcl-2 family members in C. elegans

1:55pm A. Thomas Look (Dana-Farber Cancer Institute)
Chk1 suppresses a Caspase-2 apoptotic response to DNA damage that bypasses p53, Bcl-2 and Caspase-3

2:30pm Angelika Böttger (Ludwig-Maximilians-University Munich)
Bcl-2 proteins in the early metazoan Hydra

2:45pm Jason Pellettieri (University of Utah)
Cell death and tissue remodeling in planarian regeneration

3:00pm Coffee break and poster session

Non-apoptotic functions of Bcl-2 family members

4:30pm Elizabeth Jonas (Yale University)
Bcl-xL in the synapse: How a mitochondrial protein regulates neuronal activity

5:05pm Elizabeth Tanner (Boston University)
Regulation of mitochondrial clustering by Bcl-2 family proteins during programmed cell death in the Drosophila ovary

5:20pm Nika Danial (Dana-Farber Cancer Institute)
A phospho-BAD BH3 helix selectively activate glucose metabolism

6:30pm Italian dinner with group at the Hopkins Center catered by the Hanover Inn. We'll walk over together after the last talk of the day.

Continued next page.

Apoptosis and Cancer: the Bcl-2 family of proteins - program continued

Friday, June 26

8:30am Registration

9:00am Welcome back

Regulatory mechanisms of apoptosis (Chair: Craig)

9:05am Sabrina Spencer (Massachusetts Institute of Technology)
Non-genetic origins of cell-to-cell variability in TRAIL-induced apoptosis

9:40am Sophie Cazanave (Mayo Clinic Foundation)
JNK1-dependent PUMA expression contributes to lipoapoptosis

9:55am Lina Ghibelli (Universita' di Roma Tor)
Redox modulation of Bax and Bcl-2: Disulfides in apoptosis and survival

10:10am Coffee break

Role of Bcl-2 family members in tumorigenesis

10:40am Andreas Strasser (Walter & Eliza Hall Institute of Medical Research)
The role of endogenously expressed pro-survival Bcl-2 family members in tumour development and sustaining tumour growth

11:15am Ruth Craig (Dartmouth Medical School)
MCL1 regulation and dysregulation: How cells change their minds and how defects in this process contribute to cancer

11:50am Marie Hardwick (Johns Hopkins University)
Non-canonical functions of Bcl-2 family proteins - neurons to yeast

12:25pm Lunch - Thayer Dining Hall. We will walk over together after talk.

Bcl-2 family members as targets for cancer therapeutics (Chair: Eastman)

1:25pm Saul Rosenberg (Abbott Laboratories)
Apoptosis as a therapeutic target: Inhibiting the Bcl-2 family proteins

2:00pm Gordon Shore (McGill University)
Bcl-2 Inhibition for the Treatment of Cancer

2:35pm Gerald Cohen (University of Leicester)
Bcl-2 inhibitors and chronic lymphocytic leukemia

3:10pm Coffee break and poster session

4:40pm W. Gibson Wood (University of Minnesota)
Simvastatin induction of Bcl-2 expression and neuroprotection in mouse primary neurons and human neuroblastoma cells independent of the mevalonate/isoprenoid/cholesterol pathways

4:55pm Alan Eastman (Dartmouth Medical School)
Bcl-2 inhibitors as adjuvants to chemotherapy

5:30pm Brian Polster (University of Maryland School of Medicine)
Bioenergetics-based evaluation of Bcl-2 antagonists in cancer and normal cells

5:45pm Closing remarks

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