

# Notch and Cancer



Athens, Greece 2008

## PROGRAM

4- 8 October 2008

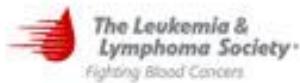
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# Notch and Cancer

4-8 October 2008

Athens-Greece

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## PROGRAM

Talks will be 30 minute long, including discussions.

### SATURDAY, OCTOBER 4, 2008

- |               |  |
|---------------|--|
| 16:00 – 22:00 | Registration (The Ionic Centre, 11 Lysiou St., in the area of Plaka) |
| 20:30         | Cocktails (The Ionic Centre)   |

### SUNDAY, OCTOBER 5, 2008

#### POSTER SESSION

- |               |  |
|---------------|--|
| 09:00 - 09:15 | Opening Remarks  |
| 09:15 - 11:00 | <b>I. Mechanistic Aspects of Oncogenic Notch Activity-1</b><br>Chair: Stephen Blacklow<br><br>Stephen <b>Blacklow</b> (Brigham & Women's Hospital, Harvard Medical School, USA)<br>"Mechanistic Aspects of Pathogenic Notch1 Signaling in T-ALL"<br><br>Barbara <b>Osborne</b> (University of Massachusetts, USA)<br>"Notch Mediates G1/S Cell Cycle Progression in T Cells via Cyclin D3 and its dependent kinases"<br><br>Freddy <b>Radtke</b> (Ecole Polytechnique Federale de Lausanne, Switzerland)<br>"Atopic dermatitis and associated hematological malignancies arise from loss of Notch signaling in the skin" |
| 11:00 - 11:30 | Coffee Break   |

11:30 – 12:30	<b>II. Mechanistic Aspects of Oncogenic Notch Activity-2</b> Chair: Barbara Osborne  Stefano <b>Stifani</b> (Montreal Neurological Institute, McGill University, Canada) "Function and regulation of Groucho proteins in development and cancer"  Makoto Mark <b>Taketo</b> (Kyoto University, Japan) "Suppression of colon cancer metastasis by Aes through inhibition of Notch signaling"
12:30 - 13:30	<b>III. The Involvement of Notch in Leukemias-1</b> Chair: Irv Bernstein  Jon <b>Aster</b> (Brigham and Woman's Hospital, USA) "Novel Notch Pathway Inhibitors and Enhancers"  Iannis <b>Aifantis</b> (NYU Cancer Institute, NYU School of Medicine, USA) "Notch signaling and the regulation of leukemic cell metastasis"
13:30 - 16:00	Lunch Break
16:00 - 18:00	<b>IV. The Involvement of Notch in Leukemias-2</b> Chair: Warren Pear  Irv <b>Bernstein</b> (Fred Hutchinson Cancer Research Center, USA) "Notch-mediated Regulation of Hematopoietic Stem/Progenitor Cells"  Adolfo <b>Ferrando</b> (Columbia University, USA) "Gamma-secretase inhibitors reverse glucocorticoid resistance"  Warren <b>Pear</b> (University of Pennsylvania, USA) "Notch1 transcriptional regulation: does it play a role in leukemia?"  James <b>Griffin</b> , DFCI/Harvard, USA "Role of Notch as an Oncogene"
18:00 – 18:20	Coffee Break
18:30 - 19:30	<b>V. Novel experimental models-1</b> Chair: Tom Gridley  Maria <b>Dominguez-Castellano</b> ((Instituto de Neurociencias de Alicante, UMH-CSIC. Spain - USA) "Interplay between Notch and JAK/STAT pathways in tumorigenesis"  Tom <b>Gridley</b> (The Jackson Laboratory, USA) "Notch Signaling During Development and Disease in Mice"

MONDAY, OCTOBER 6, 2008

**POSTER SESSION**

09:00: - 10:30

**VI. Novel experimental models-2**

Chair: Iannis Aifantis

Isabella **Screpanti** (Sapienza University of Rome, Italy)  
Mutation-independent Notch3 activation in T cell leukemia

Sylvia **Fre** (Institut Curie, France)  
“Notch and Wnt signals cooperatively control cell proliferation and tumorigenesis in the intestine”

Paul **Jolicoeur** (Clinical Research Institute of Montreal, Canada)  
“Overexpression of Notch1 intracellular domain induces mammary stem/progenitor cell expansion in mice”

10:30 - 11:00

Coffee Break

11:00 - 12:00

**VII. Novel experimental models-3**

Chair: Adolfo Ferrando

David **Carbone** (Vanderbilt University, USA)  
“Inhibition of tumor growth and improved T cell function by restoration of Dll1-Notch signaling in bone marrow precursors”

Shigeru **Chiba** (Graduate School of Comprehensive Human Sciences, University of Tsukuba, Japan)  
“Dual antitumor mechanisms of Notch signaling inhibitor in a xenograft model”

12:00 - 14:00

**VIII. Solid Tumorigenesis**

Chair: Anna Bigas

Hakan **Axelson** (University of Lund, Sweden)  
“Notch signaling in renal cell carcinoma”

Meenhard **Herlyn** (The Wistar Institute, USA)  
“Notch signaling in melanocyte differentiation and transformation”

Thao **Dang** (Vanderbilt-Ingram Cancer Center, USA)  
“Strategies in targeting Notch3 in lung cancer”

Lluis **Espinosa** (IDIBELL, Spain)  
“Notch is an essential mediator downstream of b-catenin in colorectal cancer”

Xing **Fan** (University of Michigan, U.S.A.)  
“Targeting CD133 positive cancer stem cells in glioblastoma by Notch pathway blockade”

14:00 - 15:30	Lunch Break
15:30 – 17:00	<b>IX. Notch Activation and Cell Proliferation-1</b> Chair: Sarah Bray  Spyros <b>Artavanis-Tsakonas</b> (Harvard Medical School, USA) “Probing the Involvement of Notch in proliferation”  Tony <b>Capobianco</b> (The Wistar Institute, USA) “Nic and NACK, and other insights into Notch Activation”  Sarah <b>Bray</b> (Cambridge University, UK) “Notch and proliferation; targets and context”
17:00 – 17:30	Coffee Break
17:30 - 18:30	<b>X. Notch Activation and Cell Proliferation-2</b> Chair: Maria Dominguez-Castellano  Gian-Paolo <b>Dotto</b> (University of Lausanne, Switzerland) “Notch signaling in the integrated control of skin homeostasis and carcinogenesis”  Gianni <b>Del Sal</b> (Laboratorio Nazionale CIB, Trieste, Italy) “The prolyl-isomerase pin1 is a novel Notch1 target that enhances Notch1 activation in cancer”
18:30 – 19:30	<b>XI. Angiogenesis</b> Chair: Jan Kitajewski  Jan <b>Kitajewski</b> (Columbia University, USA) “Notch regulates tumor angiogenesis by diverse mechanisms”  Gavin <b>Thurston</b> (Regeneron Pharmaceuticals, USA) “VEGF and DLL4-Notch: interacting signaling pathways in tumor angiogenesis”

TUESDAY, OCTOBER 7, 2008

#### POSTER SESSION

09:00 - 11:30	<b>XII. Notch in breast cancer</b> Chair: Bob Callahan  Hippokratis <b>Kiaris</b> (University of Athens, Greece) MMTV-hN1IC transgenic mice as a model to study the transition of mammary hyperplasia to adenocarcinoma  Keith <b>Brennan</b> (University of Manchester, UK) “Notch signalling regulates apoptosis in breast epithelial cells through Akt”
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Bob **Callahan** (National Cancer Institute, USA)  
"Notch signaling and mammary tumorigenesis"

Sean **Egan**, (The Hospital for Sick Children, Canada)  
"Notch signaling and breast cancer in humans and mice"

Lucio **Miele** (Loyola University, USA)  
"Crosstalk between Notch-1 and the estrogen receptor alpha in breast cancer"

11:30 - 11:50      Coffee Break

11:50 – 13:50      **XIII. Notch Signallin Agonists and Antagonists as Tumor Therapeutics**

Chair: Bin-Bing Stephen Zhou

Marc **Vooijs** (UMC, Utrecht, the Netherlands)  
"Metalloprotease dependent cleavage of Notch receptors"

Dmitry **Gabrilovich** (University of South Florida, USA)  
"Notch signaling in regulation of abnormal myeloid cell differentiation in cancer"

Chris **Siebel** (Genentech, Inc., USA)  
Stabilizing Receptor Quiescence with Synthetic Antibodies Enables Precise Control of Notch Signaling In Vivo

Bin-Bing Stephen **Zhou** (Tanox, Inc., USA)  
"NOTCH3 specific modulatory antibodies: implications for Notch regulation and development of Notch-selective anti-tumor therapeutics"

13:50 - 15:30      Lunch Break

15:30 – 17:00      **XIV. Stem Cells**

Chair: Maria Dominguez-Castellano

Sudhir **Krishna** (National Centre for Biological Sciences (TIFR), India)  
"Induction of enhanced tumorigenecity and stemness in human cervical cancer cells is linked to switc"

Ronald **McKay** (LMB/NINDS/NIH, Bethesda, MD, USA)  
"Regeneration mechanisms in the injured brain"

Charles **Eberhart** (Johns Hopkins University School of Medicine, USA)  
"Induction of Eye Tumors by Notch3"

17:00      Closing Remarks

WEDNESDAY, OCTOBER 8, 2008

09:00      **Optional tour**  
Guided tour to the Acropolis and the Ancient Agora of Athens

## POSTER SESSION

Diana **Bellavia** (Sapienza University of Rome, Italy) **1**

"Specific and unique relationship between Notch3 and Jagged1 in T cell Leukemia"

Authors: D. Bellavia, M. Mecarozzi, AF. Campese, M. Pelullo, R. Palermo, A. Giovenco, A. Gulino, I. Screpanti

Maurizio **Bocchetta** (Loyola University Chicago, U.S.A.) **2**

"Opposite effects of Notch-1 and Notch-2 on mesothelioma cell survival are mediated through the Akt p"

Authors: I. Graziani, M. A. De Marco, Y. Chen, H. I. Pass, R. M. DeMay, P. R. Strack, L. Miele, M. Bocchetta

Tilman **Borggrefe** (Max-Planck-Institute, Germany) **3**

"ETO, but not AML1/ETO, augments RBP-J/SHARP-mediated repression of Notch target genes"

Authors: Tilman Borggrefe, Daniela Salat, Robert Liefke, J. Wiedenmann and Franz Oswald

Sotiria **Boukouvala\*** (Exelixis, Inc., USA.) **4**

"Mutational analysis of human NOTCH1, 2 and 3 genes in cancer cell lines and solid tumors"

Authors: Sotiria Boukouvala\*, Valentina Vysotskaia and Lisa Kadyk

\*Presenting author's current affiliation: Democritus University of Thrace, Department of Molecular Biology and Genetics, Alexandroupolis, Greece

Saula **Checquolo** (Dep. Experimental Medicine. Sapienza University of Rome, Italy) **5**

"The E3 ubiquitin ligase c-Cbl regulates Notch3 and pTa intracellular turnover in T cell leukemia"

Authors: S. Checquolo, D. Bellavia, G. Ferrara, S. Cialfi, R. Palermo, C. Oliviero, A. Gulino, I. Screpanti

Mark Y. **Chiang** (University of Pennsylvania, U.S.A.) **6**

"Leukemia-associated Notch1 alleles are weak tumor initiators, but impose Notch "addiction" on K-ras initiated leukemia"

Authors: Mark Y. Chiang, Lanwei Xu, Olga Shestova, Sarah L'Heureux, Jon C. Aster, Warren S. Pear

Natalie **Cook** (Cancer Research UK Cambridge Research Institute, UK) **7**

"Pharmacological and genetic inhibition of the Notch pathway in pancreatic cancer"

Authors: Meredith Caldwell, Natalie Cook and David Tuveson

Cynthia **Guidos** (Hospital for Sick Children, Toronto, ON, Canada) **8**

"Co-operation between Notch, IL-7 and pre-TCR signaling in normal and leukemic T cell development"

Authors: Irina Matei, Peggy Wong, Julie Yuan, Jayne Danska, Cynthia Guidos

S. **Indraccolo** (Dept. of Oncology and Surgical Sciences-University of Padua, Italy) **9**

"Angiogenesis unmasks the tumorigenic potential of dormant cancer cells through the Dll4-Notch3 inter"

Authors: S. Indraccolo1, S. Minuzzo2, M. Masiero2, I. Pusceddu1, L. Persano2, L. Moserle2, R. Zamarchi1, I. S

Raquel **Goncalves** (Institute of Biomedical Engineering (INEB), Portugal) **10**

"Jagged-1 Nanostructured Surfaces are able to induce Apoptosis and Differentiation of Leukemic cells"

Authors: Raquel Goncalves, M. Cristina L. Martins, Graca Almeida-Porada, Mario Barbosa

Sugata **Manna** (Center for Molecular Pathology, Department of laboratory Medicine, Lund University, Sweden) **11**

“Notch signaling in urothelial carcinoma”

Authors: Sugata Manna, David Lindgren, Mattias H&ouml;glund and Hakan Axelson

Hiroshi **Nakagawa** (Gastroenterology Division, University of Pennsylvania, USA) **12**

“Notch signaling regulates esophageal epithelial differentiation and tumor progression”

Authors: S. Ohashi, D. Stairs, K. Grugan, C. Michaylira, L. Kalabis, A. Capobianco, W. Pear, J. Katz, & H. Nakagawa

Ronan **O'Hagan** (AVEO Pharmaceuticals, Inc., USA) **13**

“Targeting the Tumor Maintenance Function of Notch for Cancer Therapy”

Authors: Heidi Okamura, Alisa Bell, Samantha Perino, Jeanine Lorusso, David Keane, Jeno Gyuris, Ronan O'Hagan

Clodia **Osipo** (Loyola University Medical Center, USA) **14**

“PEA3, an Ets Family Member, Regulates Notch-1 and Notch-4 Transcription in Breast Cancer”

Authors: Anthony G. Clementz, Antonio Pannuti, Lucio Miele, and Clodia Osipo

Rebecca **Rock** (University of Manchester, UK) **15**

“Notch signalling in DCIS and invasive breast cancer”

Authors: Rebecca Rock, Spyros Stylianou, Gillian Farnie, Robert B. Clarke, Nigel J. Bundred, and Keith Brennan

Aaron **Sato** (OncoMed Pharmaceuticals, USA) **16**

“A potent anti-Notch1 antibody blocks the ligand binding site and inhibits Notch dependent processes”

M. **Sonoshita** (Kyoto Univ. Grad. Sch. Med. (Pharmacol.), Japan) **17**

“Suppression of colon cancer metastasis by Aes through inhibition of Notch signaling”

Authors: M. Sonoshita, M.M. Taketo

Spyros **Stylianou** (Bank of Cyprus Oncology Centre, Cyprus) **18**

“Dominant negative Mastermind like for breast cancer treatment”

Authors: Spyros Stylianou, Christina Kousparou, Agamemnon Epenetos Spyros

Maria L. **Toribio** (Centro de Bologia Molecular Severo Ochoa CSIC-UAM, Spain) **19**

“Notch signaling controls IL-7R expression and IL-7-dependent proliferation of T-ALL”

Authors: Sara Gonzalez-Garcia, Adolfo A. Ferrando, and Maria L. Toribio

Lizi **Wu** (University of Florida, U.S.A.) **20**

“Identification of Notch pathway-specific target genes”

Authors: Jian-Liang Li, Shuibin Lin, Wenbin Liu, Lizi Wu

Koji **Yasutomo** (The University of Tokushima Graduate School of Medicine, Japan) **21**

“Dendritic cell-mediated NK cell activation is controlled by Jagged2-Notch interaction”

Authors: Mika Kijima, Yoichi Maekawa, Koji Yasutomo

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