Introduction

In 2007 we launched an annual Notch research meeting that has been bringing the Notch community together in Athens. The meetings alternate between a general meeting as the one this year with thematically focused smaller workshops. The first such workshop with the title Notch and Cancer was held in 2008. The second, with the title Notch and Stem Cells was held in Athens in October 2010.

The meetings are sponsored by the not for profit foundation Fondation Santé (www.FondationSante.org) and benefit from the generosity of additional sponsors.

Organizing Committee

Spyros Artavanis-Tsakonas, Harvard Medical School, USA;
Martin Baron, Faculty of Life Sciences, University of Manchester, UK;
Hugo Bellen, Baylor College of Medicine, HHMI, TMC, USA;
Mark Fortini, Kimmel Cancer Center, Thomas Jefferson University Medical College, USA;
Kenji Matsuno, Tokyo University of Science, Japan;
Thomas Vaccari, IFOM, Italy;
Gerry Weinmaster, David Geffen School of Medicine at UCLA, USA.

Fondation Santé was established in 2000 as a private foundation operating exclusively for charitable, scientific and educational purposes. The foundation aims to assist in advancing the health and education of those in need, whether individuals, regions or countries.
PROGRAM

Presentations at the Notch Meeting may not be considered as published scientific papers and may not be cited or reported in the press except as personal communications (with the presenter’s permission). Given these assurances we hope you will speak openly and not introduce any data or experiments that you are not prepared to discuss in full. In participating in the conference you agree neither to record presentations or posters by electronic or photographic means, nor to make printed references to The Notch Meeting presentations, posters and discussions. You will also agree to omit references to The Notch Meeting from any publication.

There will be 30 minute talks including discussions.

Please note that there may be last minute changes in both the order of the speakers and the speakers. Any such changes will be announced at the meeting.

SUNDAY, September 30

19:00 - 20:30  Registration  (The Ionic Centre, 11 Lysiou St.)
20:30  Reception  (The Ionic Centre)

MONDAY, October 1

09:00 - 09:10  Opening Remarks
Spyros Artavanis-Tsakonas (Harvard Medical School, USA)

9:10-10:30  Session I
Chair: Gerry Weinmaster
Mark Fortini (Thomas Jefferson University, USA)
“New mutants affecting Notch secretory transport and endocytic Trafficking”

Thomas Klein (Institute of Genetics Heinrich-Heine-Universität Düsseldorf, Germany)
“Regulation of endosomal trafficking of Notch by the tumoursuppressor Lethal (2) giant discs (Lgd)”

Shinya Yamamoto (Baylor College of Medicine, USA)
“Identification of novel Notch alleles that affect intracellular trafficking”

10:30 - 11:00  Coffee Break

11:00 - 13:30  Session II
Chair: Gerry Weinmaster
Kenji Matsuno (Osaka University, Japan)
“Functions of pecanex and its genetic modifiers in Notch signaling”
Kazuya Hori (Harvard Medical School)  
“Regulation of Notch signal by a lysosomal associated transmembrane protein”

Roland Le Borgne (Institute of Genetics and Development of Rennes, France)  
“Numb interacts with AP-1 to control the plasma membrane localization of Spdo in Drosophila sensory organ precursor”

Pier Paolo Di Fiore (University of Milan and IFOM-IEO Campus, Italy)  
“Connecting the machineries of cell fate determination and tumor suppression in breast stem cells”

François Schweisguth (Institut Pasteur, France)  
“Live imaging analysis of Notch activity and regulation by Numb in Drosophila”

13:30 – 15:00  
Lunch Break

15:00-16:00  
POSTER SESSION

16:00 – 17:30  
Session III  
Chair: Thomas Vaccari

Jane C. Mc Glade (The Hospital for Sick Children/ University of Toronto, Canada)  
“Regulation of Notch trafficking by adaptor proteins.”

Nikolaos Giagtzoglou (Baylor College of Medicine, USA)  
“dEHBP1 regulates the intracellular trafficking of multiple components of the Notch signaling pathway”

Martin Baron (University of Manchester, UK)  
“Deltex and Suppressor of Deltex, both cooperate and antagonise to provide thermal insensitivity of Notch signalling in Drosophila development.”

17:30 – 18:00  
Coffee Break

18:00 – 19:30  
Christel Brou (Institut Pasteur, France)  
“USP12, a new negative regulator of Notch signaling”

Marian Wilkin (University of Manchester, UK)  
“Drosophila ZO-1 can down-regulate Notch signalling by binding Deltex”

Simon Woodcock (University of Manchester, UK)  
“Characterisation of two distinct ligand-independent mechanisms of Notch activation in the endosomes.”
Tuesday, October 2

9:00-10:30  **Session IV**  
Chair: Kenji Matsuno  

Toshiki Mizuno (Kyoto Prefectural University of Medicine, Japan)  
“Transendocytosis is impaired in CADASIL–mutant NOTCH3”  

Tian-Li Wang (The Johns Hopkins University, USA)  
“WWP2, an E3 Ubiquitin Ligase, Regulates Notch3 Signaling by Ubiquitin-Dependent Degradation”  

Saula Checquolo (Sapienza University of Rome, Italy)  
“The prolyl-isomerase Pin1 regulates Notch3 receptor aturation by influencing its membrane migration”

10:30 - 11:00  **Coffee Break**

11:00-13:30  **Session V**  
Chair: Kenji Matsuno  

Bob Haltiwanger (Stony Brook University, USA)  
“O-Glycosylation of Notch Epidermal Growth Factor-like Repeats”  

Hamed Jafar Nejad (Baylor College of Medicine, USA)  
“Regulation of Notch signaling by O-glycans”  

Akira Ishio (Osaka University, Japan)  
“Monomeric O-fucose modification of Notch is essential for its folding at high temperature”  

Sarah Bray (Cambridge University, UK)  
“Planar cell polarity controls directional Notch signaling in the Drosophila leg”  

Thomas Vaccari (IFOM, Italy)  
"Developmental regulation of Vacuolar ATPase supports Notch and Wnt cell fate decisions"  

Christos Delidakis (Institute of Molecular Biology and Biotechnology, Greece)  
“Delta ubiquitylation and trafficking”

14:00 – 15:30  **Lunch Break**

15:30  **Guided tour of the ancient Acropolis of Athens**

20:30  **Dinner**
**WEDNESDAY, October 3**

9:00-10:30  
**Session VI**  
Chair: Martin Baron

Gerry Weinmaster (David Geffen School of Medicine at UCLA, USA)  
“Furin processing regulates the efficiency and intensity of Notch signaling required for distinct morphogenetic events”

Franck Coumailleau (Pasteur Institute, France)  
“The conserved TspanC8 sub-family of tetraspanins regulate the trafficking of ADAM10/Kuzbanian and the activation of Notch”.

Marcos Gonzales Gaitan (University of Geneva, Switzerland)  
“Directed motility of Delta/Notch endosomes in asymmetric cell division”

10:30 - 11:00  
**Coffee Break**

11:00-13:30  
**Session VII**  
Chair: Martin Baron

Laurence Meloty-Kapella (UCLA, USA)  
“NICD generated in response to ligand in the absence of clathrin-mediated endocytosis is not competent to activate transcription of Notch target genes”

Divya Shah (Sunnybrook Health Sciences Centre, USA)  
“Role of Recycling, Mib1 Association and Exclusion from Lipid Rafts of Dll4 for Effective Notch Signaling”

Elena Farmaki (University of Athens Medical School, Greece)  
“Non-Cell-Autonomous Induction of Splenic Lymphomas by Activation of Notch Signaling in Stromal Fibroblasts”

Lavinia Alberi (UNIFR, Switzerland)  
“Insights into physiological versus pathological Notch signaling in neurons.”

Fabrice Roegiers (Fox Chase Cancer Center, USA)  
“Sanpodo links the Notch receptor to the endocytic machinery and to the γ-secretase complex to control signaling in Drosophila sensory organ precursor cells”

Closing Remarks

13:30 – 15:00  
**Lunch**
POSTER SESSION

Emma Andersson
Karolinska Institutet, Sweden
“The molecular basis of Alagille Syndrome: Jagged/Notch signaling in liver development and disease”
Authors: Emma R Andersson, Indira V Chivukula, Meritxell Huch Ortega, Ewa Ellis, Stephen Strom, Hans Clevers & Urban Lendahl

Naoki Aoyama
Kyoto University, Japan
“A null mutant allele of vacuolar protein sorting 2 reveals its various developmental roles in Drosophila”
Authors: Naoki Aoyama, Tomoko Yamakawa, Takeshi Sasamura, Yuki Yamaguchi-Takei, Akira Watanabe, Yusuke Kitada, Ryu Ueda, Tetsuya Tabata, Kenji Matsuno

Ken Geles
Pfizer Inc. USA
“Targeting Notch1 in Tumors with Therapeutic Antibodies”

Onur Kaya
IMBA (Inst. of Molecular Biotechnology),
“dNkap is a potential regulator of Notch signaling in stem cells”
Authors: Onur Kaya, Juergen Knoblich

Nina Offenhauser
IFOM,
“A role for the endocytic adaptor proteins Eps15/Eps15L1 in regulating Notc signaling”
Authors: Nina Offenhauser, Caterina Lucano, Cinzia Milesi and Pier Paolo Di Fiore

Elisa Sala
Università Vita- Salute San Raffaele
“Epsins in Notch skin activation”
Authors: Sala E, Ruggiero L, Di Giacomo G, Cremona O

Hideyuki Shimizu
The University of Manchester, UK
“Cooperative Notch regulation by distinct endocytic pathways”
Authors: Hideyuki Shimizu, Simon Woodcock, Marian Wilkin, Martin Baron

Elenae Vazquez
National Cancer Institute,
“Participation of the hDlg protein in the Notch pathway”
Authors: Vázquez-Ulloa Elenaé, Lizano-Soberón Marcela, Contreras-Paredes Adriana

Tomoko Yamakawa
University of Osaka, Japan
“Function of a neurogenic gene, pecanex in Notch signaling”
Authors: Tomoko Yamakawa, Kenta Yamada, Takeshi Sasamura, Naotaka Nakazawa, Maiko Kanai, Emiko Suzuki, Mark E. Fortini, Kenji Matsuno