



FEBS Advanced Lecture Course
co-sponsored by CRESCENDO

**Nuclear Receptor Signalling in
Physiology and Disease**

Spetses Hotel, Island of Spetses, Greece
August 28 – September 2, 2011

Program

SUNDAY, August 28

- from 16:00 Registration
19:00 Opening remarks (organizers)
19:30 - 21:00 Self-presentation of all participants
21:00 Welcome reception
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MONDAY, August 29

Chair: Johanna Zilliacus

08:30 Faculty meeting (lecturers, organizers)

09:00 - 09:45 Keynote Lecture

Jan-Åke Gustafsson (Houston, USA)

Discovery of nuclear receptors, functions and structures of their domains and their superfamily nature

10:00 - 10:45 **Karen Knudsen (Philadelphia, USA)**

Cross talk of the androgen receptor and DNA damage pathways: *molecular and translational prostate cancer relevance*

10:45 - 11:15 Coffee break

11:15 - 12:00 **Jorma Palvimo (Kuopio, Finland)**

Androgen receptor signaling in cell stress

Chair: Barbara Demeneix

12:00 - 13:00 Short Talks 1-6 (5 min talk + 5 min discussion)

Natalie Eriksson (St Lucia, QLD, Australia)

Transgenic expression of Nr3a3 regulates skeletal muscle fibre type

Anna Aakula (Turku, Finland)

Systematic Analysis of MicroRNAs Targeting the Androgen Receptor in Prostate Cancer Cells

Amine Toubal (Paris, France)

Dysregulation of SMRT/GPS2 Corepressor Complex Is Associated with Adipose Tissue Inflammation in Human Obesity

Laia Rodríguez Carbó (Barcelona, Spain)

An Allosteric Modulator Surface on the Androgen Receptor Ligand Binding Domain

Marleen Ansems (Nijmegen, The Netherlands)

DC-SCRIPT: Modulating Nuclear Receptor Activity and Prognosis in Primary Breast Cancer

Jessica Robinson (Cambridge, U.K.)

Androgen Receptor driven transcription in molecular apocrine breast cancer is mediated by FoxA1

13:00 - 14:00 Lunch

16:00 - 17:30 Poster Session I (odd numbers)

17:45 - 18:30 **Karin Dahlmann-Wright (Stockholm, Sweden)**

Genetic dissection of estrogen signaling in metabolic disease

18:30 - 20:00 Poster Session II (lecture-student teams: presentations)

TUESDAY, August 30

Chair: Knut Steffensen

09:00 - 09:45 **Carlie de Vries (Amsterdam, The Netherlands)**
Orphan Nuclear Receptor Nur77 in the vessel wall

10:00 - 10:45 **Antonio Castrillo (Las Palmas, Spain)**
Regulation of Homeostatic and Inflammatory Macrophage Functions by LXR Nuclear Receptors

10:45 - 11:15 Coffee break

11:15 - 12:00 **Eckardt Treuter (Stockholm, Sweden)**
Epigenomic control of metabolism and inflammation by NRs and coregulators – link to metaflammatory disease pathways

Chair: Eckardt Treuter

12:00 - 13:00 Short Talks 7-12

Dorsaf Hedhli (Brussels, Belgium)
The disease modifying properties of LXR-dependant pathway in *M. tuberculosis* infection

Eija Pöllänen (Jyväskylä, Finland)
Differential influence of Peripheral and systemic sex steroids on skeletal muscle quality in pre- and postmenopausal woman'

Áine Nolan (Dublin, Ireland)
Estradiol promotes microRNA-20a expression in colon carcinoma which may contribute to tumour progression after loss of ER β receptor

Jelena Kamilic (Groningen, The Netherlands)
Intestinal specific FXR pathway is not a main pathway in intestinal permeability regulation

Sascha Fuchs (Eindhoven, The Netherlands)
Screening the Estrogen Receptor-cofactor Interaction

Natasha Mott (Maywood, IL, USA)
Estrogen receptor beta (ER β) associates with different nuclear coregulatory proteins dependent on age and hormone treatment in the rodent brain

13:00 - 14:00 Lunch

16:30 - 19:00 Poster Session III (even numbers)

19:15 - 20:00 **Antonio Moschetta (Bari, Italy)**
Selective Activation of Nuclear Bile Acid Receptor FXR in the Intestine Protects from Cholestasis

WEDNESDAY, August 31

Chair: Jan-Åke Gustafsson

09:00 - 09:45 **Adriana Maggi (Milan, Italy)**

Amino acid-dependent activation of liver estrogen receptor alpha integrates metabolic and reproductive functions via IGF-1

10:00 - 10:45 **Iannis Taliandis (Athens, Greece)**

Transcription factor network regulating lipid metabolism in the liver

10:45 - 11:15 Coffee break

11:15 - 12:00 **Béatrice Desvergne (Lausanne, Switzerland)**

Networking activity of PPARs during development and in adult metabolic homeostasis

Chair: Tassos Damdimitopoulos

12:00 – 13:00 Short Talks 13-18

Maria Stahl Madsen (Odense, Denmark)

Mechanisms for synergistic activation of adipocyte genes by PPAR γ and C/EBP α

Eric Samarut (Illkirch, France)

Evolution of nuclear retinoic acid receptor alpha (RAR α) phosphorylation sites. Serine gain provides fine-tuned regulation

Branka Susic-Jurjevic (Belgrade, Serbia)

Effects of Orchidectomy on Thyroid Homeostasis in Middle-Aged Rats

Britta Stenson (Stockholm, Sweden)

LXR regulates lipolysis of mature fat cells

Vanessa Dubois (Leuven, Belgium)

Study of androgen effects on skeletal muscle by inactivating the androgen receptor in muscle-progenitor cells

Randy Schrecengost (Philadelphia, PA, USA)

USP22 is a Critical Cancer-Associated Modulator of AR and c-Myc Activity

13:00 - 14:00 Lunch

Continuing: **WEDNESDAY, August 31**

16:00 - 17:00 Beach Workshops Part I

17:00 - 18:00 Beach Workshops Part II

NR genomics, cistromes & transcriptomes: Talianidis, Mandrup, Dahlman-Wright
(Download PDF-articles: [Dahlman-Wright](#), [Mandrup](#), [Park](#))

Metabolic NR signaling & disease: Castrillo, Desvergne, de Vries, Moschetta, Demeneix
(Download PDF-articles: [Castrillo](#), [Desvergne](#), [Moschetta](#))

Steroid receptor signalling & cancer: Gustafsson, Knudsen, Maggi
(Download PDF-articles: [Gustafsson](#), [Knudsen](#), [Maggi](#))

NR epigenomics, coregulators & modifications: Schwabe, Palvimo, Treuter
(Download PDF-articles: [McKenna](#), [Rosenfeld](#), [Treuter](#))

19:15 - 20:00 **Barbara Demeneix (Paris, France)**

Thyroid hormone signalling as an orchestrator of adult neurogenesis

THURSDAY, September 1

Chair: Adriana Maggi

09:00 - 09:45 **Susanne Mandrup (Odense, Denmark)**

Transcriptional networks controlling adipocyte differentiation

10:00 - 10:45 **John Schwabe (Leicester, UK)**

Structure and mechanisms of the SMRT:TBL1:GPS2:HDAC3 repression complex

10:45 - 11:15 Coffee break

11:15 - 13:00 Concluding remarks, best poster & best short talks award, course evaluation, certificate

13:00 - 14:00 Lunch

Individual activities

21:00 Farewell dinner

FRIDAY, September 2

Departure