

Nuclear Receptors: Bench to Bedside

Session 1 KEYNOTE SPEAKERS

WEDNESDAY 8/27/2008, 7:30 PM

K. Yamamoto

#	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
1	Davidson	Targeting estrogen receptor in breast cancer	
2	Lazar	Nuclear receptors and metabolism—The right time and place	

Session 2 THYROID HORMONES AND RETINOIDS—MECHANISMS, PHYSIOLOGY

THURSDAY 8/28/2008, 9:00 AM

B. Vennström

#	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
3	Vennström	Neurological and metabolic aberrancies caused by a dominant negative thyroid hormone receptor α 1 in mice—Can the patients be found?	20
4	Harnish	Deletion of FXR leads to an osteopenic phenotype in mice	12
	Chin	TITLE ONLY: Nuclear hormone receptors as novel drug targets	20
5	Chopra	Steroid receptor coactivator SRC-2 governs hepatic glucose production and its absence results in Von Gierke's disease	12
6	Gronemeyer	Selective CBP methylation triggers target gene recruitment	20
7	Shi	Nuclear receptor TLX signaling in neural stem cell self-renewal	12
8	Scanlan	Is 3-iodothyronamine involved in diabetes and obesity?	20

Session 3 POSTER SESSION I

THURSDAY 8/28/2008, 2:00 PM

#	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
9	Wintermantel	Molecular analysis of ER α signaling mechanisms in response to synthetic ligands	
10	Akaogi	Estrogen receptor β regulates transcriptional activity of KLF	
11	Bailey	Determining the role of the estrogen receptor in the apoptotic response	
12	Bergsvaag	Search for ubiquitination sites and ubiquitin-related phosphorylation sites in the steroid receptor coactivator GRIP1	
13	Berry	Regulation of glucocorticoid sensitivity by hypoxia	
14	Bougarne	Peroxisome proliferator-activated receptor α blocks glucocorticoid receptor α -mediated transactivation, but cooperates with the activated glucocorticoid receptor α for transrepression on NF- κ B	
15	Bugge	The role of the A/B-domain in PPAR γ 2 mediated transactivation of genomic target genes	
16	Busby	Dissecting the molecular mechanism underlying the pharmacodynamics of partial versus full agonists of PPAR γ	

17	Chakravarty	The nuclear receptor co-regulator PELP1—A novel regulator of G2/M progression
18	Chang	Functional ER α transcriptional regulatory network for cell cycle in an ER(+) breast cancer subgroup
19	Chen	MED1/TRAP220 muscle-specific knock out mice are resistant to high-fat diet induced obesity due to increased expression of key brown adipose tissue signature genes
20	Claessens	The hinge region of the androgen receptor contains a central control motif
21	Kotokorpi	Effects of the synthetic liver X receptor agonist T0901317 on the thyroid hormone axis in rats
22	Dhananjayan	The tumor suppressor, WWOX1, attenuates oncoprotein YAP1 and WBP-2 mediated synergistic enhancement of ER and PR transcriptional activities
23	Fernandez	A study of allosterism and dynamics in the constitutive androstane and thyroid hormone receptors
24	Flammer	Glucocorticoid regulation of the Type I interferon-Jak/STAT signaling pathway
25	Griffin	Identification of selective inverse agonists of the RAR receptors using a novel nuclear receptor library
26	Hahn-Windgassen	The <i>C. elegans</i> HNF4 homolog NHR-31 promotes excretory tube development by coordinately regulating multiple subunits of the vacuolar ATPase
27	Hallis	Tools for the discovery and characterization of GR modulators—A comparison of binding, coactivator recruitment, and transactivation assays
28	Wikstrom	Flow cytometry of the glucocorticoid receptor and qRT-PCR of glucocorticoid regulated genes to determine glucocorticoid responsiveness
29	Hilmi	Regulation of ER α activity by PI3K subunits in tamoxifen resistant breast cancer
30	Huang	OAZ is critically required for retinoic acid-induced differentiation and is a marker of poor outcome in neuroblastoma
31	Ikeda	Characterization of functional domains of a steroid receptor-binding protein, SRB-RGS
32	Garabedian	Stage specific glucocorticoid receptor signaling in thymocytes differentially affects the inflammatory response
33	Istrate	Identification of a novel LRH-1 coactivator that potentiates LRH-1 dependent activation of the Cyp19P _{II} promoter in MCF-7 cells
34	Ito	Nuclear receptors inhibit TGF- β signaling pathway via Smad degradation—Implication for cancer progression
35	Jones	Cell-based assay of androgen receptor conformation change reveals non-ligand inhibitors with potent in vivo activity
36	Kang	Dual roles for CoAA and its counterbalancing isoform CoAM in human kidney cell tumorigenesis
37	Law	Vitamin D receptors in medaka
38	Mani	Identification of a novel ketoconazole binding site on activated pregnane x receptor—Implications towards development of non-ligand competing antagonists

Session 4 CORTICOSTEROIDS—MECHANISMS, PHYSIOLOGY AND PATHOLOGY

THURSDAY 8/28/2008, 7:30 PM

J. Funder

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
39	Funder	Translational research goes both ways—Lessons for basic biology from clinical studies	20
40	Force Aldred	Functional analysis of glucocorticoid pathway regulatory elements in response to a panel of natural and synthetic ligands	12
41	Downes	Attenuation of pro-inflammatory and pro-fibrogenic gene expression in NPCS by vitamin D	12
42	Feldman	Glucocorticoids regulate cell fate decisions through the circadian clock	20
43	Kinyamu	Proteasome inhibition and glucocorticoid receptor regulated gene transcription	12
44	Rogatsky	Interferon regulatory factor (IRF)-3 as a target for glucocorticoid receptor-mediated immunosuppression	20
45	Pufall	Allosteric regulation of glucocorticoid receptor activity by DNA binding sequence	12
46	Hager	Interaction of the glucocorticoid receptor with the chromatin landscape	20

Session 5 PPARs—MECHANISMS, PHYSIOLOGY AND PATHOLOGY

FRIDAY 8/29/2008, 9:00 AM

D. Kelly

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
47	Kelly	Cardiac nuclear receptors as therapeutic targets for metabolic modulation	20
48	Ge	PTIP regulates both expression and activity of PPAR γ and is required for adipogenesis	12
49	Jonker	Transcriptional regulation of the circadian circuitry by the nuclear receptor family	12
50	Rastinejad	Structure of the intact PPAR γ -RXR complex	20
51	Mandrup	Genome-wide ChIP-Seq profiling of PPAR γ /RXR target sites and gene program during 3T3-L1 adipocyte differentiation	12
52	Glass	Rubor, calor, dolor et NCoR—Co-repressor dependent mechanisms that regulate inflammation	20
53	Ryan	A role for CNS PPAR γ in the regulation of energy balance	12
54	Nagy	The nuclear receptors, PPAR γ , VDR, and RAR link lipid metabolism and immune function in developing human dendritic cells	20

Session 6 POSTER SESSION II

FRIDAY 8/29/2008, 2:00 PM

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
55	Magner	Functional dissection of NHR-8, a nuclear receptor impacting the life history of <i>C. elegans</i>	
56	Mansouri	PPAR α protects against systemic inflammation by liver-specific gene repression mechanism	

57	Margolis	The nuclear receptor signaling atlas (NURSA)—A community resource
58	Martin	A new molecular mechanism for regulation of phosphatidylinositol 3-kinase by mammalian nuclear receptor for thyroid hormone
59	McCalman	Genome-wide glucocorticoid receptor binding—An insight into its anti-inflammatory actions
60	Meng	FXR regulate liver repair after CCL ₄ -induced injury
61	Mita	Regulation of androgen receptor mediated transcription by RPB5 binding protein (RMP/URI)
62	Iñiguez-Lluhi	Clinical mutations reveal important roles of SUMOylation in androgen receptor based diseases
63	Iñiguez-Lluhi	SUMOylation of the androgen receptor prevents polyglutamine expansion induced aggregation
64	Nwachukwu	Function of the androgen receptor cofactor, ART-27 in prostate cancer
65	Kolluri	Ah receptor—An unknown target of immunomodulatory drugs?
66	Oie	Histone deacetylase inhibitors suppress ER α expression
67	Papoutsis	Binding of estrogen receptor α/β heterodimers to chromatin in MCF-7 cells
68	Kim	Small angle X-ray scattering studies on structures of an estrogen-related receptor α ligand binding domain and its complexes with ligands and coactivators
69	Pineda-Torra	CCR7 regulation by LXR α phosphorylation in macrophages
70	Pondugula	Phosphomimetic mutation affects function, localization and CYP3A4 promoter binding of pregnane x receptor
71	Ramamoorthy	E6-associated protein (E6-AP) regulates mammary gland morphogenesis by modulating the ubiquitin-mediated proteolysis of the progesterone receptor
72	Rozendaal	Anti-proliferative effects of retinoic acid on HER2-amplified breast cancer cells
73	Sacchetti	Nuclear receptors in the development of ventral midbrain neurons
74	Kersten	Hepatic gene regulation by plasma free fatty acids is mediated by PPAR β/β but not PPAR α
75	Schuelke	Differential effects of TPR proteins on steroid receptor signaling
76	Seuter	Convergence of vitamin D and retinoic acid signaling in inflammation
78	Stavrosky	Stress kinase signaling and androgen receptor phosphorylation
79	Swanson	Bioinformatics resources for transacting nuclear receptors and cognate cis-regulatory elements
80	Tamm	Target genes for estrogen receptor α in MCF7 and endometrial cell lines HEC1A and RL95-2
81	Thulin	PPAR α regulates the hepatotoxic biomarker alanine aminotransferase (ALT1) gene expression in human hepatocytes
82	Tollkuhn	Molecular control of sexually dimorphic behaviors

83	Tsoli	Cancer cachexia syndrome—Dysregulated nuclear receptor-mediated lipid metabolism in adipose tissues and liver of tumor-bearing mice
84	Uht	A potential role for histone deacetylase 1 (HDAC1) regulation of corticotropin releasing hormone expression
85	Van Bogaert	HSP70 overproduction prevents TNF-induced glucocorticoid resistance
86	Venteclef	SUMOylation of LRH-1 is required to repress the hepatic acute phase response
87	Volakakis	Fatty acid binding protein 5 is a target gene of the immediate early orphan nuclear receptor Nurr1
88	York	Loss of function mutations in the SRC-3 coactivator confer physiological defects in growth and metabolism
89	Zwart	Anti-estrogen resistance mediated by cyclin D1 overexpression

Session 7 NUCLEAR RECEPTOR COFACTORS—MECHANISMS, PHYSIOLOGY AND FRIDAY 8/29/2008, 7:30 PM

B. O'Malley

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
90	O'Malley	NR coactivators in metabolic physiology and disease	20
91	Aneskievich	Will the cycle be unbroken—Nuclear receptor regulation of a corepressor's expression	12
92	Stallcup	Coordination of the activities of transcriptional coactivator complexes	20
93	Seale	PRDM16, a coregulator of nuclear receptors, controls a brown fat/skeletal muscle developmental switch	20
94	Schulman	A selective role for LXR α in limiting atherosclerosis	12
95	Chen	Hormone-induced AAA+ ATPase ANCCA facilitates loading and assembly of receptor- and E2F-chromatin coregulator complexes in integration of hormone signaling and cancer cell proliferation	20
96	Martinez	Quantitative RT-PCR profiling of the nuclear receptor superfamily across fifty human cancer cells lines from nine different tissues	12
97	McDonnell	Application of mechanism-based approaches for the discovery of estrogen receptor modulators with tissue/process-selective activities	20

Session 8 ESTROGENS AND PROGESTINS—MECHANISMS, PHYSIOLOGY AND SATURDAY 8/30/2008, 9:00 AM

S. Fuqua

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
98	Fuqua	A novel model of estrogen receptor (ER) α -positive metastatic breast cancer	20
99	Nettles	Targeting macrophage mediated SERM resistance in breast cancer	12
100	Freedman	Liver X receptor is a potential therapeutic target for skin aging	20
102	Greene	What makes a ligand a SERM?	20
103	Skaf	Molecular dynamics simulations of ligand binding and release from nuclear receptors	12
104	Isaacs	Estrogen signaling regulates the JNK1 genomic localization program	12

105 Picard Signaling promiscuity of ER α and its ligands—Mechanisms and consequences 20

Session 9 ANDROGENS—MECHANISMS, PHYSIOLOGY AND PATHOLOGY

SATURDAY 8/30/2008, 2:00 PM

M. Brown

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
106	Brown	Reprogrammed androgen receptor drives the growth of androgen-independent prostate cancer	20
107	Bolton	Gene- and cell-specific regulation of androgen receptor target genes in prostate	12
108	Diamond	Thinking outside the nuclear receptor "box" to modulate function	20
109	Weigel	Androgen receptor action in hormone-dependent and hormone-independent prostate cancer	20
110	Watson	Prostate cancer cells with androgen receptor (AR) gene amplification are dependent on high, threshold levels of AR	12
111	Scher	An open label phase 1-2 dose-escalation safety and pharmacokinetic study of MDV3100 in castration-resistant prostate cancer (CRPC)	20
112	Clegg	Development of androgen receptor antagonists with a novel mechanism of action	12
113	Mancini	Androgen receptor functional analyses by high throughput systems biology	12
114	Balk	Androgen receptor reactivation after androgen deprivation therapy for prostate cancer	20

Session 10 NUCLEAR RECEPTORS IN INVERTEBRATES—DEVELOPMENT,

SUNDAY 8/31/2008, 9:00 AM

D. Mangelsdorf

<u>#</u>	<u>Iname</u>	<u>Title</u>	<u>Talk Length</u>
115	Mangelsdorf	Nuclear receptors, FGFs, and the regulation of nutrient metabolism	20
116	de Vries	Nur77 in vascular disease and liver lipid metabolism	12
117	Antebi	Nuclear receptor coupling of energy sensing circuits to growth control and maturation via the let-7 family of microRNAs	20
118	Kenyon	The nuclear hormone receptor and aging in <i>C. elegans</i>	20
119	Van Gilst	Nutrient dependent regulation of lipid metabolism by <i>C. elegans</i> NHR-49	20