

Scientific Program – Wednesday 16th Workshop on Vitamin D

Wednesday, June 12, 2013

Session I:	D-Code ENCODE Session Chair: J. Wesley Pike	
8:30 - 9:05 AM 9:05 - 9:15 AM	J. Stamatoyannopoulos <i>Discussion</i>	WHAT IS ENCODE?
9:15 - 9:40 AM 9:40 - 9:45 AM	W. Pike <i>Discussion</i>	GENOME-WIDE TECHNIQUES REVEAL NOVEL DETAILS OF BONE CELL GENE REGULATION BY 1 α ,25-DIHYDROXYVITAMIN D ₃
9:45 - 10:10 AM 10:10 - 10:15 AM	C. Carlberg <i>Discussion</i>	THE USE OF ENCODE DATA FOR UNDERSTANDING GENOME-WIDE VITAMIN D RECEPTOR SIGNALING
10:15 - 10:35 AM	COFFEE BREAK	
Session II:	Epigenetics and Transcriptional Regulation Session Chair: Moray Campbell	
10:35 - 10:40 AM	Introduction by Chair	
10:40 - 11:05 AM 11:05 - 11:10 AM	S. Ramagopalan <i>Discussion</i>	ROLE OF VITAMIN D IN EPIGENETIC REGULATION OF THE GENOME
11:10 - 11:20 AM 11:20 - 11:25 AM	M. Campbell <i>Discussion</i>	DISTORTED TARGETING OF CO-REPRESSORS TO VDR TARGET GENES IN PROSTATE CANCER PROGRESSION
11:25 - 11:35 AM 11:35 - 11:40 AM	M. Meyer <i>Discussion</i>	EPIGENETIC PLASTICITY DEFINES TRANSCRIPTIONAL ACTIONS FOR VDR IN DIFFERENTIATION
11:40 - 11:50 AM 11:50 - 11:55 AM	T. Seth <i>Discussion</i>	NOVEL MECHANISM OF NEGATIVE REGULATION OF 1,25-DIHYDROXYVITAMIN D ₃ INDUCED 24(OH)ASE TRANSCRIPTION: EPIGENETIC MODIFICATION INVOLVING CROSS-TALK BETWEEN PROTEIN ARGININE METHYLTRANSFERASE 5 AND THE SWI/SNF COMPLEX
Session III:	Poster Session A	
11:55 - 1:25 AM	Box Lunch and Poster Viewing	
Session IV:	Biologic Significance of Tissue Specific Vitamin D Metabolism Session Chair: Glenville Jones	
1:25 - 1:30 PM	Introduction by Chair	

1:30 - 1:55 PM	M. Collins	TUMOR INDUCED OSTEOMALACIA AS A MODEL FOR THE STUDY OF MINERAL METABOLISM
1:55 - 2:00 PM	<i>Discussion</i>	
2:00 - 2:10 PM	H. Bachman	HUMAN PHARMACOKINETIC PROFILE OF 1,25-DIHYDROXYVITAMIN D ₃ - GLYCOSIDE OF HERBAL ORIGIN
2:10 - 2:15 PM	<i>Discussion</i>	
2:15 - 2:25 PM	R. Schmidt	SELECTED VITAMIN D METABOLIC GENE VARIANTS AND AUTISM SPECTRUM DISORDER
2:25 - 2:30 PM	<i>Discussion</i>	

Session V: Physiologic Role of Extrarenal CYP27B1
Session Chair: Howard Morris

2:30 - 2:35 PM	Introduction by Chair	
2:35 - 3:00 PM	W. Chang	CONTRIBUTION OF THE PARATHYROID CYP27B1 TO CIRCULATING 1,25(OH) ₂ D LEVELS
3:00 - 3:05 PM	<i>Discussion</i>	
3:05 - 3:30 PM	J. Adams	REGULATION OF EXTRARENAL CYP27B1
3:30 - 3:35 PM	<i>Discussion</i>	
3:35 - 3:45 PM	A. Verone	25-HYDROXYVITAMIN D ₃ (25(OH)D ₃) INHIBITS A SUBSET OF LUNG CANCER CELLS INDEPENDENT OF CYP27B1 ACTIVITY
3:45 - 3:50 PM	<i>Discussion</i>	
3:50 - 4:10 PM	COFFEE BREAK	

Session VI: Novel Pathways of Vitamin D Metabolism
Session Chair: Rebecca Mason

4:10 - 4:15 PM	Introduction by Chair	
4:15 - 4:40 PM	K. Thummel	OXIDATIVE AND CONJUGATIVE METABOLISM OF 25-HYDROXYVITAMIN D ₃ AND ITS CONTRIBUTION TO DRUG AND DISEASE INDUCED PATHOLOGIES
4:40 - 4:45 PM	<i>Discussion</i>	
4:45 - 5:10 PM	A. Slominski	THE PHYSIOLOGIC ROLE OF CYP11A1 IN VITAMIN D REGULATION OF EPIDERMAL FUNCTIONS
5:10 - 5:15 PM	<i>Discussion</i>	
5:15 - 5:25 PM	E. Tieu	RATES OF METABOLISM OF INTERMEDIATES OF THE C24 OXIDATION PATHWAY BY HUMAN CYP24A1
5:25 - 5:30 PM	<i>Discussion</i>	
5:30 - 5:40 PM	D. Bikle	RECIPROCAL ROLES OF VDR AND β-CATENIN IN THE REGULATION OF KERATINOCYTE PROLIFERATION AND DIFFERENTIATION
5:40 - 5:45 PM	<i>Discussion</i>	
6:30 - 8:00 PM	Social Event: A Taste of California (ticket required)	

Scientific Program – Thursday 16th Workshop on Vitamin D

Thursday, June 13, 2013

Session VII: Vitamin D Regulated Pathways in Malignancy
Session Chair: JoEllen Welsh

8:30 - 8:35 AM	Introduction by Chair	
8:35 - 9:00 AM	W. Bai	ROLE OF MICRORNAS IN OVARIAN CANCER SUPPRESSION BY VITAMIN D
9:00 - 9:05 AM	<i>Discussion</i>	
9:05 - 9:30 AM	S. Gonzalo	NOVEL ROLES OF 1 α ,25(OH) ₂ D ₃ ON DNA REPAIR PROVIDE NEW STRATEGIES FOR BREAST CANCER TREATMENT
9:30 - 9:35 AM	<i>Discussion</i>	
9:35 - 9:45 AM	J. Welsh	MODELING VITAMIN D ACTIONS IN BASAL-LIKE BREAST CANCER
9:45 - 9:50 AM	<i>Discussion</i>	
9:50 - 10:00 AM	J. White	E3 UBIQUITIN LIGASE AND TUMOR SUPPRESSOR FBW7 AS A HUB OF 1 α ,25(OH) ₂ D ₃ -MEDIATED CELL CYCLE ARREST
10:00 - 10:05 AM	<i>Discussion</i>	
10:05 - 10:15 AM	J. Lundqvist	WSTF IS A KEY PLAYER IN VITAMIN D MEDIATED DOWN REGULATION OF ESTROGEN RECEPTOR SIGNALING IN BREAST CANCER CELLS
10:15 - 10:20 AM	<i>Discussion</i>	
10:20 - 10:40 AM	COFFEE BREAK	

Session VIII: Regulation of Vitamin D Metabolism and Function by miRNAs
Session Chair: Martin Hewison

10:40 - 10:45 AM	Introduction by Chair	
10:45 - 11:10 AM	Y.C. Li	CRITICAL ROLES OF MICRORNA-155 IN 1,25-DIHYDROXYVITAMIN D REGULATION OF INNATE IMMUNE RESPONSE
11:10 - 11:15 AM	<i>Discussion</i>	
11:15 - 11:25 AM	Y. Jiang	LONG NON-CODING RNA: A NOVEL MECHANISM FOR THE PROTECTIVE ROLE OF VITAMIN D SIGNALING IN SKIN CANCER FORMATION
11:25 - 11:30 AM	<i>Discussion</i>	
11:30 - 11:40 AM	W. Wang	MODULATION OF ENERGY METABOLISM IN PROSTATE CANCER CELLS BY 1,25(OH) ₂ D ₃
11:40 - 11:45 AM	<i>Discussion</i>	
11:45 - 11:55 AM	R. Kasiappan	1 α ,25-DIHYDROXYVITAMIN D ₃ SUPPRESSES LEPTIN STIMULATION OF TUMOR GROWTH THROUGH MICRORNA-498-MEDIATED TELOMERASE DOWN-REGULATION
11:55 - 12:00 PM	<i>Discussion</i>	

Session IX: Poster Session B

12:00 - 1:15 PM Box Lunch and Poster Viewing

Session X: Vitamin D Regulation of Immune Function Session Chair: John White

1:15 - 1:20 PM Introduction by Chair

1:20 - 1:45 PM M. Cantorna THE IMPACT OF 1,25(OH)₂D₃ ON IMMUNE
1:45 - 1:50 PM *Discussion* MEDIATED DISEASE

1:50 - 2:00 PM T. Takiishi ORAL VITAMIN D₃ SUPPLEMENTATION SAFELY
2:00 - 2:05 PM *Discussion* PREVENTS DIABETES IN NOD MICE WHEN
GIVEN LONG TERM

2:05 - 2:15 PM A. Mehrota IMPACT OF D₃ REPLETION OF
2:15 - 2:20 PM *Discussion* ALLOREACTIVITY IN VITAMIN D DEFICIENT
HEMODIALYSIS PATIENTS: A RANDOMIZED
CONTROLLED TRIAL

2:20 - 2:30 PM G.B. Ferreira 1 α ,25-DIHYDROXYVITAMIN D₃ AND THE
2:30 - 2:35 PM *Discussion* GENERATION OF TOLEROGENIC DENDRITIC
CELLS AS VACCINATION THERAPY IN TYPE 1
DIABETES

Session XI: Vitamin D and the Kidney Session Chair: David Goltzman

2:35 - 2:40 PM Introduction by Chair

2:40 - 3:05 PM M. Wolf FGF23 AND ITS IMPACT ON VITAMIN D
3:05 - 3:10 PM *Discussion* METABOLISM IN CHRONIC KIDNEY DISEASE

3:10 - 3:20 PM J. Kong VITAMIN D RECEPTOR ATTENUATES ACUTE
3:20 - 3:25 PM *Discussion* LUNG INJURY BY BLOCKING THE
ANGIOPOIETIN-2-TIE-2 PATHWAY AND THE
RENIN-ANGIOTENSIN SYSTEM

3:25 - 3:35 PM N. Rochel TEMPORAL CONTROL OF VDR MEDIATED
3:35 - 3:40 PM *Discussion* SIGNALING IN MICE EXPRESSING A
STRUCTURE-BASE POINT MUTATED VDR

3:40 - 4:00 PM COFFEE BREAK

Session XII: Vitamin D Effects on Intestinal Calcium Absorption and Bone Session Chair: Sylvia Christakos

4:00 - 4:05 PM Introduction by Chair

4:05 - 4:30 PM J. Fleet FORWARD AND REVERSE GENETIC
4:30 - 4:35 PM *Discussion* APPROACHES REVEAL CRITICAL ASPECTS OF
VITAMIN D REGULATED INTESTINAL CALCIUM
ABSORPTION

4:35 - 4:45 PM	P. Dhawan	TRANSGENIC EXPRESSION OF THE VITAMIN D RECEPTOR (VDR) RESTRICTED TO THE ILEUM, CECUM AND COLON OF VDR KNOCKOUT MICE RESCUES VDR DEPENDENT RICKETS
4:45 - 4:50 PM	<i>Discussion</i>	
4:50 - 5:00 PM	H. Morris	DELETION OF VDR IN MATURE OSTEOBLASTS RESULTS IN INCREASED BONE VOLUME DURING GROWTH DUE TO IMPAIRED RANKL-MEDIATED BONE RESORPTION
5:00 - 5:05 PM	<i>Discussion</i>	
5:05 - 5:15 PM	J. Ryan	GENDER RELATED DIFFERENCES IN THE SKELETAL PHENOTYPE OF AGED VITAMIN D RECEPTOR (VDR) KNOCKOUT MICE
5:15 - 5:20 PM	<i>Discussion</i>	
5:20 - 5:35 PM	Recognition of Young Investigator and Trainee Awardees	
6:30 - 8:00 PM	Social Event: Workshop Buffet	

Scientific Program – Friday 16th Workshop on Vitamin D

Friday, June 14, 2013

Session XIII:	Plenary Lecture Joint Session: Vitamin D Workshop and the International Aldosterone Conference Session Co-chairs: William Rainey and Daniel Bikle	
8:30 - 9:10 AM	K. Yamamoto	MULTIPLE MECHANISMS OF STEROID HORMONE ACTION
9:10 - 9:15 AM	<i>Discussion</i>	
9:15 - 9:25 AM	BREAK	
Session XIV:	Problems and Promises in Vitamin D Assessment Session Chair: Ron Horst	
9:25 - 9:30 AM	Introduction by Chair	
9:30 - 9:55 AM	N. Binkley	VITAMIN D ASSAYS, WHICH ONES ARE USEFUL AND HOW TO INTERPRET
9:55 - 10:00 AM	<i>Discussion</i>	
10:00 - 10:25 AM	M. Hewison	VITAMIN D AND DBP: THE FREE HORMONE HYPOTHESIS REVISITED
10:25 - 10:30 AM	<i>Discussion</i>	
10:30 - 10:50 AM	COFFEE BREAK	
10:50 - 11:15 AM	E. Hypponen	GENETIC INFLUENCES ON 25-HYDROXYVITAMIN D: IMPLICATIONS AND USES
11:15 - 11:20 AM	<i>Discussion</i>	
11:20 - 11:45 AM	A. Young	HOLIDAY UVR EXPOSURE AND SUNSCREEN USE ON VITAMIN D STATUS
11:45 - 11:50 AM	<i>Discussion</i>	
11:50 - 12:00 PM	A. Burild	BIOAVAILABILITY AND STORAGE OF ORAL 25-HYDROXY-D ₃ AND D ₃ IN RELATION TO PLASMA 25-HYDROXY-D ₃
12:00 - 12:05 PM	<i>Discussion</i>	
Session XV: Poster Session C		
12:05 - 1:35 PM	Box Lunch and Poster Viewing	
Session XVI:	Public Health Aspects of Vitamin D Deficiency Session Chair: John Pettifor	
1:35 - 1:40 PM	Introduction by Chair	
1:40 - 2:05 PM	C. Palacios	IS VITAMIN D DEFICIENCY A MAJOR GLOBAL PUBLIC HEALTH PROBLEM?
2:05 - 2:10 PM	<i>Discussion</i>	
2:10 - 2:35 PM	P. Lips	HYPERCALCEMIA FOLLOWING HIGH DOSE VITAMIN D SUPPLEMENTATION
2:35 - 2:40 PM	<i>Discussion</i>	

2:40 - 3:05 PM Z. Mughal THE PREVENTION OF VITAMIN D DEFICIENCY AT
3:05 - 3:10 PM *Discussion* THE COMMUNITY LEVEL

3:10 - 3:30 PM COFFEE BREAK

Session XVII: Vitamin D and the Metabolic Syndrome
Session Chair: David Gardner

3:30 - 3:35 PM Introduction by Chair

3:35 - 4:00 PM A. Pittas VITAMIN D AND TYPE II DIABETES
4:00 - 4:05 PM *Discussion*

4:05 - 4:15 PM R. Jorde SUPPLEMENTATION WITH HIGH DOSES OF
4:15 - 4:20 PM *Discussion* VITAMIN D TO SUBJECTS WITHOUT VITAMIN D
DEFICIENCY MAY HAVE NEGATIVE EFFECTS ON
GLUCOSE METABOLISM, LIPIDS AND MARKERS OF
INFLAMMATION. POOLED DATA FROM FOUR
INTERVENTION TRIALS IN TROMSØ

4:20 - 4:45 PM R. Thadhani VITAMIN D AND HYPERTENSION
4:45 - 4:50 PM *Discussion*

4:50 - 5:15 PM C. Bernal-Mizrachi VITAMIN D AND LIPID DISORDERS /
5:15 - 5:20 PM *Discussion* ATHEROSCLEROSIS

WORKSHOP IS ADJOURNED