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  J. Stamatoyannopoulos  WHAT IS ENCODE?
9:05 - 9:15 AM  Discussion

9:15 - 9:40 AM  W. Pike  GENOME-WIDE TECHNIQUES REVEAL NOVEL DETAILS OF BONE CELL GENE REGULATION BY 1α,25-DIHYDROXYVITAMIN D3
9:40 - 9:45 AM  Discussion

9:45 - 10:10 AM  C. Carlberg  THE USE OF ENCODE DATA FOR UNDERSTANDING GENOME-WIDE VITAMIN D RECEPTOR SIGNALING
10:10 - 10:15 AM  Discussion

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  S. Ramagopalan  ROLE OF VITAMIN D IN EPIGENETIC REGULATION OF THE GENOME
11:05 - 11:10 AM  Discussion

11:10 - 11:20 AM  M. Campbell  DISTORTED TARGETING OF CO-REPRESSORS TO VDR TARGET GENES IN PROSTATE CANCER PROGRESSION
11:20 - 11:25 AM  Discussion

11:25 - 11:35 AM  M. Meyer  EPIGENETIC PLASTICITY DEFINES TRANSCRIPTIONAL ACTIONS FOR VDR IN DIFFERENTIATION
11:35 - 11:40 AM  Discussion

11:50 - 11:55 AM  Discussion

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  Discussion

2:00 - 2:10 PM  H. Bachman  HUMAN PHARMACOKINETIC PROFILE OF 1,25-DIHYROXYVITAMIN D3 - GLYCOSIDE OF HERBAL ORIGIN
2:10 - 2:15 PM  Discussion

2:15 - 2:25 PM  R. Schmidt  SELECTED VITAMIN D METABOLIC GENE VARIANTS AND AUTISM SPECTRUM DISORDER
2:25 - 2:30 PM  Discussion

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
3:00 - 3:05 PM  Discussion  CYP27B1 TO CIRCULATING 1,25(OH)2D LEVELS

3:05 - 3:30 PM  J. Adams  REGULATION OF EXTRARENAL CYP27B1
3:30 - 3:35 PM  Discussion

3:35 - 3:45 PM  A. Verone  25-HYDOXYVITAMIN D3 (25(OH)D3) INHIBITS A SUBSET OF LUNG CANCER CELLS INDEPENDENT OF CYP27B1 ACTIVITY
3:45 - 3:50 PM  Discussion

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 D3 AND ITS CONTRIBUTION TO DRUG AND DISEASE INDUCED PATHOLOGIES
4:40 - 4:45 PM  Discussion

4:45 - 5:10 PM  A. Slominski  THE PHYSIOLOGIC ROLE OF CYP11A1 IN VITAMIN D REGULATION OF EPIDERMAL FUNCTIONS
5:10 - 5:15 PM  Discussion

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  Discussion

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  Discussion

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

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<tr>
<th>Time</th>
<th>Event</th>
<th>Speaker(s)</th>
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<tr>
<td>8:30 - 8:35 AM</td>
<td>Introduction by Chair</td>
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<tr>
<td>8:35 - 9:00 AM</td>
<td>ROLE OF MICRORNAS IN OVARIAN CANCER</td>
<td>W. Bai</td>
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<tr>
<td>9:00 - 9:05 AM</td>
<td>SUPPRESSION BY VITAMIN D</td>
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<tr>
<td>9:05 - 9:30 AM</td>
<td>NOVEL ROLES OF 1α,25(OH)2D3 ON DNA</td>
<td>S. Gonzalo</td>
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<td>9:30 - 9:35 AM</td>
<td>REPAIR PROVIDE NEW STRATEGIES FOR BREAST CANCER TREATMENT</td>
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<td>9:35 - 9:45 AM</td>
<td>MODELING VITAMIN D ACTIONS IN BASAL-LIKE BREAST CANCER</td>
<td>J. Welsh</td>
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<td>9:45 - 9:50 AM</td>
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<td>9:50 - 10:00 AM</td>
<td>E3 UBIQUITIN LIGASE AND TUMOR</td>
<td>J. White</td>
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<tr>
<td>10:00 - 10:05 AM</td>
<td>SUPPRESSOR FBW7 AS A HUB OF</td>
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<td>1α,25(OH)2D3-MEDIATED CELL CYCLE ARREST</td>
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<td>10:05 - 10:15 AM</td>
<td>WSTF IS A KEY PLAYER IN VITAMIN D</td>
<td>J. Lundqvist</td>
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<td>10:15 - 10:20 AM</td>
<td>MEDIATED DOWN REGULATION OF</td>
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<td>ESTROGEN RECEPTOR SIGNALING IN BREAST CANCER CELLS</td>
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<td>10:20 - 10:40 AM</td>
<td>COFFEE BREAK</td>
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### Session VIII:
**Regulation of Vitamin D Metabolism and Function by miRNAs**
**Session Chair:** Martin Hewison

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<th>Time</th>
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<tr>
<td>10:40 - 10:45 AM</td>
<td>Introduction by Chair</td>
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<td>10:45 - 11:10 AM</td>
<td>CRITICAL ROLES OF MICRORNA-155 IN 1,25-DIHYDROXYVITAMIN D REGULATION OF</td>
<td>Y.C. Li</td>
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<td>11:10 - 11:15 AM</td>
<td>INNATE IMMUNE RESPONSE</td>
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<td>11:15 - 11:25 AM</td>
<td>LONG NON-CODING RNA: A NOVEL</td>
<td>Y. Jiang</td>
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<td>11:25 - 11:30 AM</td>
<td>MECHANISM FOR THE PROTECTIVE ROLE OF</td>
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<td>VITAMIN D SIGNALING IN SKIN CANCER FORMATION</td>
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<td>11:30 - 11:40 AM</td>
<td>MODULATION OF ENERGY METABOLISM IN</td>
<td>W. Wang</td>
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<td>11:40 - 11:45 AM</td>
<td>PROSTATE CANCER CELLS BY 1,25(OH)2D3</td>
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<td>11:45 - 11:55 AM</td>
<td>1α,25-DIHYDROXYVITAMIN D3 SUPPRESSES</td>
<td>R. Kasiappan</td>
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<td>11:55 - 12:00 PM</td>
<td>LEPTIN STIMULATION OF TUMOR GROWTH THROUGH MICRORNA-498-MEDIATED</td>
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<td>TELOMERASE DOWN-REGULATION</td>
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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  
Discussion  
THE IMPACT OF 1,25(OH)2D3 ON IMMUNE MEDIATED DISEASE

1:45 - 2:00 PM  T. Takiishi  
Discussion  
ORAL VITAMIN D3 SUPPLEMENTATION SAFELY PREVENTS DIABETES IN NOD MICE WHEN GIVEN LONG TERM

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

2:20 - 2:30 PM  G.B. Ferreira  
Discussion  
1α,25-DIHYDROXYVITAMIN D3 AND THE 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  
Discussion  
FGF23 AND ITS IMPACT ON VITAMIN D METABOLISM IN CHRONIC KIDNEY DISEASE

3:05 - 3:20 PM  J. Kong  
Discussion  
VITAMIN D RECEPTOR ATTENUATES ACUTE LUNG INJURY BY BLOCKING THE ANGIOPOIETIN-2-TIE-2 PATHWAY AND THE RENIN-ANGIOTENSIN SYSTEM

3:25 - 3:35 PM  N. Rochel  
Discussion  
TEMPORAL CONTROL OF VDR MEDIATED 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  
Discussion  
FORWARD AND REVERSE GENETIC 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  Discussion

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  Discussion

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  Discussion

5:20 - 5:35 PM  Recognition of Young Investigator and Trainee Awardees

6:30 - 8:00 PM  Social Event: Workshop Buffet
**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  Discussion
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  Discussion
10:00 - 10:25 AM  M. Hewison  VITAMIN D AND DBP: THE FREE HORMONE HYPOTHESIS REVISITED
10:25 - 10:30 AM  Discussion
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  Discussion
11:20 - 11:45 AM  A. Young  HOLIDAY UVR EXPOSURE AND SUNSCREEN USE ON VITAMIN D STATUS
11:45 - 11:50 AM  Discussion
11:50 - 12:00 PM  A. Burild  BIOAVAILABILITY AND STORAGE OF ORAL 25-HYDROXY-D3 AND D3 IN RELATION TO PLASMA 25-HYDROXY-D3
12:00 - 12:05 PM  Discussion

**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  Discussion
2:10 - 2:35 PM  P. Lips  HYPERCALCEMIA FOLLOWING HIGH DOSE VITAMIN D SUPPLEMENTATION
2:35 - 2:40 PM  Discussion
2:40 - 3:05 PM  Z. Mughal  THE PREVENTION OF VITAMIN D DEFICIENCY AT THE COMMUNITY LEVEL

3:05 - 3:10 PM  Discussion

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 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

4:15 - 4:20 PM  Discussion

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 /ATHEROSCLEROSIS

5:15 - 5:20 PM  Discussion  WORKSHOP IS ADJOURNED