

Scientific Program - Wednesday
18th WORKSHOP ON VITAMIN D

TUESDAY, April 21, 2015

17:00 - 19:00 Welcome Reception at the Theatre de Veste

WEDNESDAY, APRIL 22, 2015

8:30 - 8:45 **Welcome and Opening Remarks**
Paul Lips, Program Chair

Session I: **MOLECULAR GENETICS AND VITAMIN D ACTION**
Session Chair: Carsten Carlberg, Co-Chair: J. Wesley Pike

8:45 - 8:50 Chair's Introduction

8:50 - 9:15 A. Uitterlinden THE SEARCH FOR BONE AND JOINT GENES AND WHAT TO DO
9:15 - 9:20 *Discussion* WITH THEM?

9:20 - 9:45 R. Bouillon THE VITAMIN D BINDING PROTEIN, DBP: AN UPDATE ON A
9:45 - 9:50 *Discussion* MULTIFUNCTIONAL PROTEIN

9:50 - 10:00 R. Scragg CONSISTENT ETHNIC SPECIFIC DIFFERENCES IN DIABETES RISK
10:00 - 10:05 *Discussion* AND VITAMIN D STATUS IN THE NATIONAL HEALTH AND
NUTRITION EXAMINATION SURVEYS

10:05 - 10:15 S. Seuter SHORT- AND LONG-TERM EPIGENOMIC AND TRANSCRIPTOMIC
10:15 - 10:20 *Discussion* RESPONSE OF A HUMAN MONOCYTIC CELL MODEL TO 1,25-
DIHYDROXYVITAMIN D3

10:20 - 10:30 S.M. Lee A SERIES OF HIGHLY DISPERSED INTRONIC AND DISTAL
10:30 - 10:35 *Discussion* ENHANCERS CONTROLS BASAL, TISSUE-SPECIFIC AND
INDUCIBLE EXPRESSION OF THE VITAMIN D RECEPTOR GENE
BOTH IN VITRO AND IN MICE IN VIVO

10:35 - 11:00 COFFEE BREAK

Session II: VITAMIN D METABOLISM AND CALCIUM ABSORPTION
Session Chair: Dan Bikle, Co-Chair: John White

11:00 - 11:05 Chair's Introduction

11:05 - 11:30 V. Tangpricha VITAMIN D THERAPY IN CYSTIC FIBROSIS
11:30 - 11:35 *Discussion*

11:35 - 11:45 Y. Ono ACTIVE VITAMIN D₃ ANALOG, ELDECALCITOL: PROTEIN
11:45 - 11:50 *Discussion* INTERACTION AND MODE OF ACTION

11:50 - 12:00 M. Kaufmann SIMULTANEOUS ASSAY OF MULTIPLE VITAMIN D METABOLITES
12:00 - 12:05 *Discussion* BY LC-MS/MS FOR THE SCREENING OF PATIENTS WITH
HYPERCALCEMIA & CYP24A1 MUTATIONS. A COHORT STUDY

12:05 - 13:30 **LUNCH AND POSTER SESSION I VIEWING**

Session III:**RENAL PHYSIOLOGY AND DISEASE**

Session Chair: Michael Kimlin, Co-Chair: Renate de Jongh

13:30 - 13:35	Chair's Introduction	
13:35 - 14:00	R. Erben	VITAMIN D, FGF23 AND CALCIUM CHANNELS
14:00 - 14:05	<i>Discussion</i>	
14:05 - 14:30	M. Vervloet	FIBROBLAST GROWTH FACTOR 23 (FGF23) AND VITAMIN D IN
14:30 - 14:35	<i>Discussion</i>	CHRONIC RENAL FAILURE
14:35 - 14:45	K. Schlingmann	NEPHROLITHIASIS CAUSED BY MUTATIONS IN CYP24A1
14:45 - 14:50	<i>Discussion</i>	
14:50 - 15:00	S. Strugnell	MODIFIED-RELEASE CALCIFEDIOL (MRC) CAPSULES INCREASE
15:00 - 15:05	<i>Discussion</i>	25D AND 1,25D AND LOWER iPTH INDEPENDENT OF eGFR IN CHRONIC KIDNEY DISEASE PATIENTS WITHOUT IMPACTING SERUM CALCIUM AND PHOSPHORUS
15:05 - 15:30	COFFEE BREAK	

Session IV:**VITAMIN D AND CANCER**

Session Chair: JoEllen Welsh, Co-Chair: George Studzinski

15:30 - 15:35	Chair's Introduction	
15:35 - 16:00	M. van Driel	VITAMIN D IN BONE METASTATIC CANCER MODELS: POSSIBLE
16:00 - 16:05	<i>Discussion</i>	THERAPEUTIC AGENT
16:05 - 16:15	E. Kallay	IMPACT OF CYP24A1 OVEREXPRESSION ON GROWTH OF
16:15 - 16:20	<i>Discussion</i>	COLORECTAL TUMOURS
16:20 - 16:30	M. Tenniswood	MODULATION OF ENERGY METABOLISM BY VITAMIN D IN
16:30 - 16:35	<i>Discussion</i>	PROSTATE CANCER
16:35 - 16:45	G. Lugli	SUPPRESSION OF microRNAs MAY BE A DRIVER OF PROSTATE
16:45 - 16:50	<i>Discussion</i>	CARCINOGENESIS WHICH IS REVERSIBLE BY 1,25- DIHYDROXYVITAMIN D

Session V:**MEASUREMENT OF VITAMIN D METABOLITES**

Session Chair: Helen Henry, Co-Chair: Miguel Maestro

16:50 - 16:55	Chair's Introduction	
16:55 - 17:20	G. Jones	VITAMIN D METABOLIC PROFILING USING LIQUID
17:20 - 17:25	<i>Discussion</i>	CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY (LC-MS/MS)
17:25 - 17:50	C. Sempos	STANDARDIZING VITAMIN D ASSAYS: IMPORTANCE TO
17:50 - 17:55	<i>Discussion</i>	RESEARCH
17:55 - 18:05	A. Valcour	A NOVEL, FULLY-AUTOMATED CHEMILUMINESCENT ASSAY FOR
18:05 - 18:10	<i>Discussion</i>	THE DETECTION OF 1,25-DIHYDROXYVITAMIN D IN BIOLOGICAL SAMPLES
18:10 - 18:20	A. Heijboer	DETERMINATION OF REFERENCE VALUES FOR SERUM TOTAL
18:20 - 18:25	<i>Discussion</i>	1,25-DIHYDROXYVITAMIN D3 USING A 2D ID-UPLC-MS/MS METHOD

Scientific Program – Thursday
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Session VI and VII Sponsored by World Health Organization

8:30 - 8:45 Introduction WHO Sessions
 Juan Pablo Peña-Rosas

Session VI: PREVALENCE, DIAGNOSIS AND PREVENTION OF RICKETS
 Session Chair: Howard Morris, Co-Chair: Inez Schoenmakers

8:45 - 8:50 Chair's Introduction

8:50 - 9:15 9:15 - 9:20	J. Pettifor <i>Discussion</i>	SCREENING OF COMMUNITIES FOR VITAMIN D DEFICIENCY RICKETS
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9:20 - 9:45 9:45 - 9:50	N. Shaw <i>Discussion</i>	PREVENTION AND TREATMENT OF RICKETS AND RECOMMENDATIONS ON VITAMIN D
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9:50 - 10:20 COFFEE BREAK

Session VII: VITAMIN D DEFICIENCY DURING PREGNANCY
 Session Chair: Bruce Hollis, Co-Chair: John McGrath

10:20 - 10:25 Chair's Introduction

10:25 - 10:50 10:50 - 10:55	C. Palacios <i>Discussion</i>	VITAMIN D SUPPLEMENTATION IN PREGNANCY
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10:55 - 11:20 11:20 - 11:25	M. Tabesh <i>Discussion</i>	MATERNAL VITAMIN D STATUS AND RISK OF PRE-ECLAMPSIA: A SYSTEMIC REVIEW AND META-ANALYSIS
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11:25 - 11:50 11:50 - 11:55	C. Cooper <i>Discussion</i>	MATERNAL VITAMIN D STATUS AND PRE- AND POSTNATAL BONE DEVELOPMENT IN THE CHILD
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11:55 - 12:55 WHO Round Table Discussion
 Session Chairs: Roger Bouillon and Inez Schoenmakers

12:55 - 14:30 **LUNCH AND POSTER SESSION II VIEWING**

Session VIII: VITAMIN D NUTRITION AND SUPPLEMENTATION
 Session Chair: Christel Lamberg-Allardt, Co-Chair: Susan Whiting

14:30 - 14:35 Chair's Introduction

14:35 - 15:00 15:00 - 15:05	M. Kiely <i>Discussion</i>	MODELLING OF VITAMIN D INTAKE AND EFFECTS OF FOOD FORTIFICATION
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15:05 - 15:15 15:15 - 15:20	S. Whiting <i>Discussion</i>	MATERNAL VITAMIN D SUPPLEMENTATION AT 50 mcg PER DAY PROTECTS AGAINST LOW SERUM 25-HYDROXYVITAMIN D [25OHD] IN INFANTS AT 8 WEEKS OF AGE: A RANDOMIZED CONTROLLED TRIAL OF THREE DOSES OF VITAMIN D BEGINNING IN GESTATION AND CONTINUED IN LACTATION
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15:20 - 15:30 15:30 - 15:35	C. Carlberg <i>Discussion</i>	TRANSCRIPTOMIC AND EPIGENOMIC RESPONSE OF WHITE BLOOD CELLS OF VITAMIN D3-SUPPLEMENTED HUMAN SUBJECTS <i>IN VIVO</i>
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15:35 - 16:00 COFFEE BREAK

Session IX:**VITAMIN D AND IMMUNOLOGY**

Session Chair: Margherita Cantorna, Co-Chair: Martin Hewison

16:00 - 16:05	Chair's Introduction	
16:05 - 16:30	C. Mathieu	VITAMIN D AND TYPE 1 DIABETES
16:30 - 16:35	<i>Discussion</i>	
16:35 - 17:00	A. Martineau	VITAMIN D AND INFECTIOUS DISEASES
17:00 - 17:05	<i>Discussion</i>	
17:05 - 17:15	G.B. Ferreira	1 α ,25-DIHYDROXYVITAMIN D ₃ INDUCES TOLERANCE IN HUMAN
17:15 - 17:20	<i>Discussion</i>	DENDRITIC CELLS BY ACTIVATION OF INTRACELLULAR METABOLIC PATHWAYS
17:20 - 17:30	W. Dankers	1,25(OH) ₂ D ₃ SUPPRESSES THE PRO-INFLAMMATORY TH17-RASF
17:30 - 17:35	<i>Discussion</i>	FEEDBACK LOOP VIA IL-4-DEPENDENT AND -INDEPENDENT MECHANISMS
17:35 - 17:45	D. Bikle	VITAMIN D AND CALCIUM REGULATION OF WOUND HEALING
17:45 - 17:50	<i>Discussion</i>	
17:50 - 18:00	L. Song	THE VITAMIN D RECEPTOR REGULATES TISSUE RESIDENT
18:00 - 18:05	<i>Discussion</i>	MACROPHAGE PROLIFERATION DURING CUTANEOUS WOUND HEALING
18:05 - 18:30	RECOGNITION OF WORKSHOP AWARD RECIPIENTS	
19:00 - 23:00	NETWORKING EVENT "PRINSENHOF" INCLUDING BUFFET DINNER	

Scientific Program – Friday
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Session X:

PLENARY LECTURE

Session Co-chairs: Roger Bouillon and Joerg Reichrath

9:00 - 9:05	Chair's Introduction	
9:05 - 9:50	Keynote Speaker Bart Staels	NUCLEAR RECEPTORS IN HEALTH AND DISEASE
9:50 - 10:00	<i>Discussion</i>	

Session XI:

VITAMIN D AND ITS RECEPTOR: MOLECULAR MECHANISMS

Session Chair: Hans van Leeuwen, Co-Chair: Anthony Norman

10:00 - 10:05	Chair's Introduction	
10:05 - 10:30	M. Meyer	DYNAMIC VDR CONTROL OF GENE EXPRESSION DURING
10:30 - 10:35	<i>Discussion</i>	DIFFERENTIATION AND SELECTIVE REGULATION OF <i>MMP13</i> TRANSCRIPTION
10:35 - 10:45	D. Matthews	ADIPOSE-SPECIFIC VDR DELETION ALTERS BODY FAT AND
10:45 - 10:50	<i>Discussion</i>	ENHANCES MAMMARY EPITHELIAL DENSITY
10:50 - 11:00	D. Glenn	AMPLIFICATION OF LIPOTOXIC CARDIOMYOPATHY IN VDR
11:00 - 11:05	<i>Discussion</i>	KNOCKOUT MOUSE
11:05 - 11:30	COFFEE BREAK	

Session XII:

VITAMIN D, MUSCLE AND CARDIOVASCULAR SYSTEM

Session Chair: Peter Ebeling, Co-Chair: Natasja van Schoor

11:30 - 11:35 PM	Chair's Introduction	
11:35 - 12:00	R. Brandes	VITAMIN D PROMOTES VASCULAR REGENERATION
12:00 - 12:05	<i>Discussion</i>	
12:05 - 12:30	H. Bischoff-Ferrari	EFFECT OF HIGH-DOSE VITAMIN D ON FALL PREVENTION
12:30 - 12:35	<i>Discussion</i>	
12:35 - 12:45	D. Agrawal	VITAMIN D STATUS DETERMINES INTIMAL HYPERPLASIA AND
12:45 - 12:50	<i>Discussion</i>	RESTENOSIS FOLLOWING CORONARY INTERVENTION
12:50 - 13:00	C. Bernal-Mizrachi	ABSENCE OF MACROPHAGE VITAMIN D RECEPTOR
13:00 - 13:05	<i>Discussion</i>	ACCELERATES MONOCYTE CHOLESTEROL TRANSPORT INTO THE ATHEROSCLEROTIC PLAQUE IN MICE
13:05 - 14:30	LUNCH AND POSTER SESSION III VIEWING	

Session XIII:

VITAMIN D AND BONE

Session Chair: Marie Demay, Co-Chair: Geert Carmeliet

14:30 - 14:35	Chair's Introduction	
14:35 - 15:00	P. Anderson	LOCAL SYNTHESIS OF $1\alpha,25(\text{OH})_2\text{D}_3$ <i>IN VIVO</i> IS REQUIRED TO
15:00 - 15:05	<i>Discussion</i>	PROMOTE BONE FORMATION AND IS SUBSTRATE DEPENDENT
15:05 - 15:15	G. Laverny	UNLIGANDED VITAMIN D RECEPTOR IMPAIRS MORE
15:15 - 15:20	<i>Discussion</i>	MINERAL AND BONE HOMEOSTASIS THAN FULL RECEPTOR DEFICIENCY

15:20 - 15:30 15:30 - 15:35	H. St. John <i>Discussion</i>	GENOME-WIDE ANALYSIS OF THE COOPERATIVE ACTIONS OF 1,25(OH) ₂ D ₃ AND PTH IN OSTEOCYTE DIFFERENTIATION
15:35 - 15:45 15:45 - 15:50	J. Ryan <i>Discussion</i>	VITAMIN D-MEDIATED BONE RESORPTION IS REGULATED BY MATURE OSTEOBLASTS, BUT NOT OSTEOCYTES, DURING GROWTH
15:50 - 16:00 16:00 - 16:05	H. Morris <i>Discussion</i>	1,25-DIHYDROXYVITAMIN D ANALOGUES WITH AN AROMATIC RING SUBSTITUTED IN THE 20,22-POSITION ELICIT DIFFERENTIAL ACTIVITIES IN MC3T3 AND MLO-A5 OSTEOBLAST-LIKE CELL LINES

16:05 - 16:30 COFFEE BREAK

Session XIV: SELECTED ORAL PRESENTATIONS AND LATE BREAKING NEWS

16:30 - 16:40 16:40 - 16:45	E. de Koning <i>Discussion</i>	SERUM 25-HYDROXYVITAMIN D, PARATHYROID HORMONE AND THE RISK OF OVERALL AND DISEASE-SPECIFIC MORTALITY: RESULTS FROM THE LONGITUDINAL AGING STUDY AMSTERDAM
16:45 - 16:55 16:55 - 17:00	D. Eyles <i>Discussion</i>	1,25 α (OH) ₂ D ₃ PREVENTS AUTISM-RELATED PHENOTYPES IN A MATERNAL IMMUNE ACTIVATION ANIMAL MODEL
17:00 - 17:10 17:10 - 17:15	TBA <i>Discussion</i>	
17:15 - 17:25 17:25 - 17:30	TBA <i>Discussion</i>	

CLOSING REMARKS