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 WITH THEM?
9:15 - 9:20 Discussion

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

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

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

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

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 INTERACTION AND MODE OF ACTION
11:45 - 11:50 Discussion

11:50 - 12:00 M. Kaufmann SIMULTANEOUS ASSAY OF MULTIPLE VITAMIN D METABOLITES BY LC-MS/MS FOR THE SCREENING OF PATIENTS WITH HYPERCALCEMIA & CYPI24A1 MUTATIONS. A COHORT STUDY
12:00 - 12:05 Discussion

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 Discussion

14:05 - 14:30 M. Vervloet FIBROBLAST GROWTH FACTOR 23 (FGF23) AND VITAMIN D IN
14:30 - 14:35 Discussion CHRONIC RENAL FAILURE

14:35 - 14:45 K. Schlingmann NEPHROLITHIASIS CAUSED BY MUTATIONS IN CYP24A1
14:45 - 14:50 Discussion

14:50 - 15:00 S. Strugnell MODIFIED-RELEASE CALCIFEDIOL (MRC) CAPSULES INCREASE
15:00 - 15:05 Discussion 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 Discussion THERAPEUTIC AGENT

16:05 - 16:15 E. Kallay IMPACT OF CYP24A1 OVEREXPRESSION ON GROWTH OF
16:15 - 16:20 Discussion COLORECTAL TUMOURS

16:20 - 16:30 M. Tenniswood MODULATION OF ENERGY METABOLISM BY VITAMIN D IN
16:30 - 16:35 Discussion PROSTATE CANCER

16:35 - 16:45 G. Lugli SUPPRESSION OF microRNAs MAY BE A DRIVER OF PROSTATE
16:45 - 16:50 Discussion 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 Discussion CHROMATOGRAPHY-TANDEM MASS SPECTROMETRY
(LC-MS/MS)

17:25 - 17:50 C. Sempos STANDARDIZING VITAMIN D ASSAYS: IMPORTANCE TO
17:50 - 17:55 Discussion RESEARCH

17:55 - 18:05 A. Valcour A NOVEL, FULLY-AUTOMATED CHEMILUMINESCENT ASSAY FOR
18:05 - 18:10 Discussion 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 Discussion 1,25-DIHYDROXYVITAMIN D3 USING A 2D ID-UPLC-MS/MS METHOD
# 18th Workshop on Vitamin D

**Scientific Program – Thursday**

## Session VI and VII

**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  
**J. Pettifor**  
*SCREENING OF COMMUNITIES FOR VITAMIN D DEFICIENCY*  
*RICKETS*

9:15 - 9:20  
**Discussion**

9:20 - 9:45  
**N. Shaw**  
*PREVENTION AND TREATMENT OF RICKETS AND RECOMMENDATIONS ON VITAMIN D*

9:45 - 9:50  
**Discussion**

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  
**C. Palacios**  
*VITAMIN D SUPPLEMENTATION IN PREGNANCY*

10:50 - 10:55  
**Discussion**

10:55 - 11:20  
**M. Tabesh**  
*MATERNAL VITAMIN D STATUS AND RISK OF PRE-ECLAMPSIA: A SYSTEMIC REVIEW AND META-ANALYSIS*

11:20 - 11:25  
**Discussion**

11:25 - 11:50  
**C. Cooper**  
*MATERNAL VITAMIN D STATUS AND PRE- AND POSTNATAL BONE DEVELOPMENT IN THE CHILD*

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  
**M. Kiely**  
*MODELLING OF VITAMIN D INTAKE AND EFFECTS OF FOOD FORTIFICATION*

15:00 - 15:05  
**Discussion**

15:05 - 15:15  
**S. Whiting**  
*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*

15:15 - 15:20  
**Discussion**

15:20 - 15:30  
**C. Carlberg**  
*TRANSCRIPTOMIC AND EPIGENOMIC RESPONSE OF WHITE BLOOD CELLS OF VITAMIN D3-SUPPLEMENTED HUMAN SUBJECTS IN VIVO*

15:30 - 15:35  
**Discussion**

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 Discussion

16:35 - 17:00 A. Martineau VITAMIN D AND INFECTIOUS DISEASES
17:00 - 17:05 Discussion

17:05 - 17:15 G.B. Ferreira 1α,25-DIHYDROXYVITAMIN D₃ INDUCES TOLERANCE IN HUMAN DENDRITIC CELLS BY ACTIVATION OF INTRACELLULAR METABOLIC PATHWAYS
17:15 - 17:20 Discussion

17:20 - 17:30 W. Dankers 1,25(OH)₂D₃ SUPPRESSES THE PRO-INFLAMMATORY TH17-RASF FEEDBACK LOOP VIA IL-4-DEPENDENT AND -INDEPENDENT MECHANISMS
17:30 - 17:35 Discussion

17:35 - 17:45 D. Bikle VITAMIN D AND CALCIUM REGULATION OF WOUND HEALING
17:45 - 17:50 Discussion

17:50 - 18:00 L. Song THE VITAMIN D RECEPTOR REGULATES TISSUE RESIDENT MACROPHAGE PROLIFERATION DURING CUTANEOUS WOUND HEALING
18:00 - 18:05 Discussion

18:05 - 18:30 RECOGNITION OF WORKSHOP AWARD RECIPIENTS

19:00 - 23:00 NETWORKING EVENT “PRINSENHOF” INCLUDING BUFFET DINNER
Scientific Program – Friday
18th WORKSHOP ON VITAMIN D

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  Discussion

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  
DIFFERENTIATION AND SELECTIVE REGULATION OF MMP13 TRANSCRIPTION

10:30 - 10:35  Discussion

10:35 - 10:45  D. Matthews  
ADIPOSE-SPECIFIC VDR DELETION ALTERS BODY FAT AND  
ENHANCES MAMMARY EPITHELIAL DENSITY

10:45 - 10:50  Discussion

10:50 - 11:00  D. Glenn  
AMPLIFICATION OF LIPOTOXIC CARDIOMYOPATHY IN VDR  
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  Discussion

12:05 - 12:30  H. Bischoff-Ferrari  
EFFECT OF HIGH-DOSE VITAMIN D ON FALL PREVENTION

12:30 - 12:35  Discussion

12:35 - 12:45  D. Agrawal  
VITAMIN D STATUS DETERMINES INTIMAL HYPERPLASIA AND  
RESTENOSIS FOLLOWING CORONARY INTERVENTION

12:45 - 12:50  Discussion

12:50 - 13:00  C. Bernal-Mizrachi  
ABSENCE OF MACROPHAGE VITAMIN D RECEPTOR  
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 1α,25(OH)2D3 IN VIVO IS REQUIRED TO  
PROMOTE BONE FORMATION AND IS SUBSTRATE DEPENDENT

15:00 - 15:05  Discussion

15:05 - 15:15  G. Laverny  
UNLIGANDED VITAMIN D RECEPTOR IMPAIRS MORE  
MINERAL AND BONE HOMEOSTASIS THAN FULL RECEPTOR  
DEFICIENCY
15:20 - 15:30  H. St. John  GENOME-WIDE ANALYSIS OF THE COOPERATIVE ACTIONS OF 1,25(OH)2D3 AND PTH IN OSTEOCYTE DIFFERENTIATION
15:30 - 15:35  Discussion
15:35 - 15:45  J. Ryan  VITAMIN D-MEDIATED BONE RESORPTION IS REGULATED BY MATURE OSTEOBLASTS, BUT NOT OSTEOCYTES, DURING GROWTH
15:45 - 15:50  Discussion
15:50 - 16:00  H. Morris  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
16:00 - 16:05  Discussion
16:05 - 16:30  COFFEE BREAK

Session XIV: SELECTED ORAL PRESENTATIONS AND LATE BREAKING NEWS
16:30 - 16:40  E. de Koning  SERUM 25-HYDROXYVITAMIN D, PARATHYROID HORMONE AND THE RISK OF OVERALL AND DISEASE-SPECIFIC MORTALITY: RESULTS FROM THE LONGITUDINAL AGING STUDY AMSTERDAM
16:40 - 16:45  Discussion
16:45 - 16:55  D. Eyles  1,25α (OH)2D3 PREVENTS AUTISM-RELATED PHENOTYPES IN A MATERNAL IMMUNE ACTIVATION ANIMAL MODEL
16:55 - 17:00  Discussion
17:00 - 17:10  TBA
17:10 - 17:15  Discussion
17:15 - 17:25  TBA
17:25 - 17:30  Discussion

CLOSING REMARKS