



14th Workshop on Vitamin D - Brugge, Belgium, 4 - 8 October 2009
Scientific Program (update September 28, 2009)

Sunday 4 October PM

Registration		3:00 PM	7:00 PM
Welcome	Reception	6:00 PM	8:00 PM

Monday 5 October AM

Opening Remarks	R. Bouillon and A. Norman	8:20 AM	8:35 AM
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Session I VDR & GENE REGULATION A

Session Chairs:

R. Bouillon and A. Norman

D. Moras	PLENARY SESSION: SOLUTION STRUCTURES OF NUCLEAR RECEPTOR HETERODIMERS RXR/RAR, RXR/VDR AND RXR/PPAR ON DNA	8:35 AM	9:25 AM
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M. Meyer	GENOME-WIDE ANALYSIS OF THE VDR/RXR CISTROME IN BONE AND INTESTINAL CELLS REVEALS NEW MECHANISTIC INSIGHT	9:25 AM	9:40 AM
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C. Carlberg	VDR TARGET GENES: FROM INDIVIDUAL mRNA CYCLING TO GENOME-WIDE PERSPECTIVE	9:40 AM	10:05 AM
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Coffee Break		10:05 AM	10:25 AM
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Session II CHEMISTRY

Session Chairs:

P. De Clercq and N. Kubodera

A. Mouriño	DESIGN AND SYNTHESIS OF ACTIVE VITAMIN D ANALOGS	10:25 AM	10:50 AM
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S. Fujii	DEVELOPMENT OF NOVEL NON-SECOSTEROIDAL VITAMIN D RECEPTOR LIGANDS BASED ON CARBORANE AS A HYDROPHOBIC CORE STRUCTURE	10:50 AM	11:05 AM
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G. Posner/M. Petkovich	VITAMIN D ANALOGUES TARGETING CYP24 IN CHRONIC KIDNEY DISEASE	11:05 AM	11:30 AM
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Session III	POSTER SESSION A - LUNCH	11:30 AM	1:30 PM
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Monday

5 October PM

Session IV

BONE & CARTILAGE

Session Chairs:

G. Carmeliet and H. Henry

R. St. Arnaud	CYP24A1, THE 25-HYDROXYVITAMIN D-24-HYDROXYLASE, IS NECESSARY FOR OPTIMAL FRACTURE REPAIR IN MICE	1:30 PM	1:55 PM
Y. Wang	DISRUPTION OF PDIA3 GENE RESULTS IN EMBRYONIC LETHALITY AND BONE ABNORMALITY IN HETEROZYGOTES	1:55 PM	2:10 PM
B. Boyan	24R,25-DIHYDROXYVITAMIN D ₃ [24R,25(OH) ₂ D ₃] CONTROLS GROWTH PLATE DEVELOPMENT BY INHIBITING APOPTOSIS IN THE RESERVE ZONE BUT STIMULATING RESPONSE TO 1 α ,25(OH) ₂ D ₃ IN HYPERTROPHIC CELLS	2:10 PM	2:35 PM

Session V

CANCER A

Session Chairs:

J. Fleet and D. Trump

C. Johnson	EPIGENETIC SILENCING OF CYP24 IN THE TUMOR MICROENVIRONMENT	2:35 PM	3:00 PM
K. Dixon	1 α ,25-DIHYDROXYVITAMIN D ₃ INHIBITS ULTRAVIOLET RADIATION-INDUCED SKIN CARCINOGENESIS <i>IN VIVO</i>	3:00 PM	3:15 PM
Coffee Break		3:15 PM	3:35 PM

Session V

CANCER A continued

Session Chairs:

J. Fleet and D. Trump

D. Feldman	VITAMIN D ACTION PATHWAYS TO INHIBIT BREAST CANCER GROWTH	3:35 PM	4:00 PM
G. Eelen	THE ROLE OF FORKHEAD BOX O TRANSCRIPTION FACTORS IN THE ACTIONS OF 1,25-DIHYDROXYVITAMIN D ₃	4:00 PM	4:15 PM
E. Giovannucci	EPIDEMIOLOGY OF VITAMIN D AND CANCER: CASUAL OR CAUSAL LINK?	4:15 PM	4:40 PM



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Session VI

IMMUNOLOGY A

Session Chairs:

M. Hewison and J. White

C. Mathieu	REGULATION OF THE IMMUNE SYSTEM BY 1,25(OH) ₂ D ₃ ; IS THIS A TWO EDGED SWORD?	4:40 PM	5:05 PM
F. Baeke	PREVENTION OF DIABETES RECURRENCE AFTER SYNGENEIC ISLET TRANSPLANTATION IN NOD MICE BY A COMBINATION OF A VITAMIN D ANALOG, TX527, ANTI-CD3 AND CYCLOSPORINE A	5:05 PM	5:20 PM
D. Eyles	DEVELOPMENTAL VITAMIN D ₃ DEFICIENCY INDUCES ALTERATIONS IN IMMUNE ORGAN MORPHOLOGY AND FUNCTION IN ADULT OFFSPRING	5:20 PM	5:35 PM

Tuesday

6 October AM

Session VII

VDR & GENE REGULATION B

Session Chairs:

D. Moras and J. Pike

M. Haussler	A VDR REVELATION: PATHWAY TO THE FOUNTAIN OF YOUTH	8:30 AM	8:55 AM
Y. Yamamoto	A TISSUE-SPECIFIC FUNCTION BY UNLIGANDED VDR	8:55 AM	9:10 AM
M. Mizwicki	VDR LIGAND BINDING FROM THE PERSPECTIVE OF THE VDR TWO POCKET MODEL	9:10 AM	9:35 AM
S. Kato	EPIGENETIC MODIFICATIONS SUPPORTING VDR-MEDIATED GENE REGULATIONS	9:35 AM	10:00 AM

Session VIII

NUTRITION

Session Chairs:

J. Berry and S. Whiting

B. Dawson-Hughes	FALLS AND FRACTURES: UPDATE AND HOW TO DESIGN AN EVIDENCE-BASED STUDY THAT WILL IDENTIFY VITAMIN D INTAKE RECOMMENDATIONS	10:00 AM	10:25 AM
P. Lips	WORLD WIDE STATUS OF VITAMIN D NUTRITION	10:25 AM	10:50 AM
Coffee Break		10:50 AM	11:10 AM



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Session VIII NUTRITION: continued

Session Chairs:
 C. Gallagher and A. Norman

VITAMIN D ROUNDTABLE

	INTRODUCTION	11:10 AM	11:15 AM
R. Heaney	OPTIMAL HEALTH REQUIRES 25(OH)D LEVELS \geq 40 NG/ML	11:30 AM	11:45 AM
R. Vieth	OPTIMAL HEALTH REQUIRES HIGH 25OHD LEVELS $>40\text{NG/ML}$ ($>100\text{NMOL/L}$).	12:00 AM	12:15 PM
R. Bouillon	OPTIMAL VITAMIN D STATUS FOR BONE AND GLOBAL HEALTH	11:45 AM	12:00 AM
P. Lips	OPTIMAL HEALTH REQUIRES SERUM 25-HYDROXYVITAMIN D LEVELS HIGHER THAN 20 NG/ML.	11:15 AM	11:30 AM
	GENERAL DISCUSSION: Discussants: B. Dawson-Hughes, J. Pettifor, P. Ebeling and C. Lamberg-Allardt	12:15 PM	1:15 PM

Tuesday 6 October PM: Free afternoon

Wednesday 7 October AM

Young Investigator Awards 8:15 AM 8:30 AM

Session IX RAPID RESPONSES

Session Chairs:
 B. Boyan

R. Simpson	ROLE OF $1,25(\text{OH})_2\text{D}_3$ IN HEART: VDR LOCATION AND MEDIATED EFFECTS ON CARDIOMYOCYTE GENE EXPRESSION AND CONTRACTILITY.	8:30 AM	8:55 AM
R. Mason	PHOTOPROTECTION BY $1\alpha,25\text{-DIHYDROXYVITAMIN D}$ AND ANALOGS: FURTHER STUDIES ON MECHANISMS AND IMPLICATIONS FOR UV-DAMAGE	8:55 AM	9:20 AM
A. Norman	EVALUATION OF THE CONSEQUENCES OF SITE DIRECTED AND DELETION MUTANTS OF THE VDR ON THE RECEPTOR'S BIOLOGICAL PROPERTIES AND ACTIONS	9:20 AM	9:45 AM
D. Menegaz	CURCUMINOIDS PREFERENTIALLY BIND TO THE VDR ALTERNATIVE POCKET AND REGULATE VDR MEDIATED NON-GENOMIC SIGNALING.	9:45 AM	10:00 AM



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Session X

INTESTINE

Session Chairs:
M. Demay and J. Fleet

L. Lieben	LESSONS LEARNED FROM INTESTINAL VDR-NULL MICE	10:00 AM	10:25 AM
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Coffee Break		10:25 AM	10:45 AM
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Session X

INTESTINE continued

Session Chairs:
M. Demay and J. Fleet

S. Christakos	NEW INSIGHTS INTO THE FUNCTION AND REGULATION OF VITAMIN D TARGET PROTEINS AND MECHANISMS INVOLVED IN VITAMIN D MEDIATED INTESTINAL CALCIUM ABSORPTION	10:45 AM	11:10 AM
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Session XI

CANCER B

Session Chairs:
C. Johnson and J. Reichrath

A. Muñoz	VITAMIN D RELATED GENES AND COLON CANCER	11:10 AM	11:35 AM
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W. Wang	GENOME-WIDE ANALYSIS OF $1\alpha,25(\text{OH})_2\text{D}_3$ ON THE ACTION OF BICALUTAMIDE IN PROSTATE CANCER CELLS	11:35 AM	11:50 AM
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Session XII

POSTER SESSION B - LUNCH

11:50 AM	1:50 PM
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Wednesday 7 October PM

Session XIII

OSTEOPOROSIS

Session Chairs:
C. Gallagher and F. Glorieux

T. Matsumoto	VITAMIN D ANALOGS FOR FRACTURE PREVENTION IN OSTEOPOROSIS.	1:50 PM	2:15 PM
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D. Houston	THE 25-HYDROXYVITAMIN D THRESHOLD FOR PHYSICAL FUNCTION IN OLDER ADULTS: THE HEALTH ABC STUDY.	2:15 PM	2:30 PM
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D. Felsenberg	ALFACALCIDOL ENHANCES ANTIRESORPTIVE EFFICACY OF ALENDRONATE IN POSTMENOPAUSAL WOMEN WITH REDUCED BONE MASS BY INCREASING vBMD AND CORTICAL AREA	2:30 PM	2:50 PM
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Coffee Break		2:50 PM	3:10 PM
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Session XIV

IMMUNOLOGY B

Session Chairs:

C. Mathieu and J. White

M. Hewison	VITAMIN D AND THE INNATE IMMUNE SYSTEM	3:10 PM	3:35 PM
I. Van der Mei	INCREASING LEVELS OF SERUM VITAMIN D ARE ASSOCIATED WITH A DECREASED HAZARD OF RELAPSE IN MULTIPLE SCLEROSIS	3:35 PM	3:50 PM
R. Chun	VITAMIN D BINDING PROTEIN AND INNATE IMMUNE RESPONSE TO 25-HYDROXYVITAMIN D	3:50 PM	4:05 PM

Session XV

SKIN & REPRODUCTION

Session Chairs:

S. Christakos and J. Pettifor

D. Bikle	DIFFERENTIAL REGULATION OF EPIDERMAL FUNCTION BY VDR COACTIVATORS	4:05 PM	4:30 PM
B. Hollis	RANDOMIZED CONTROLLED TRIALS TO DETERMINE THE SAFETY OF VITAMIN D SUPPLEMENTATION DURING PREGNANCY AND LACTATION	4:30 PM	4:55 PM

Career Awards

4:55 PM 5:10 PM

Grand Banquet Belfort Brugge

7.00 PM 10.00 PM

Thursday

8 October AM

Session XVI

CELL DIFFERENTIATION

Session Chairs:

D. Bikle

M. Demay	THE VITAMIN D RECEPTOR, THE SKIN AND STEM CELLS	8:30 AM	8:55 AM
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Session XVII	VDR & GENE REGULATION C		
	Session Chairs: M. Haussler and P. MacDonald		
S. Väisänen	NORMAL AND MALIGNANT MAMMARY CELLS DIFFER IN NUMBER OF USED VDRES AND MRNA STABILITY OF THE CYP24 GENE	8:55 AM	9:10 AM
J. Pike	EMERGING REGULATORY PARADIGMS FOR CONTROL OF GENE EXPRESSION BY 1,25-DIHYDROXYVITAMIN D ₃ .	9:10 AM	9:35 AM
M. Larriba	SNAIL2 COOPERATES WITH SNAIL1 IN THE REPRESSION OF VITAMIN D RECEPTOR IN COLON CANCER.	9:35 AM	9:50 AM
Coffee Break		9:50 AM	10:10 AM
Session XVIII	CANCER C		
	Session Chair: C. Johnson		
J. Welsh	GENOMIC VITAMIN D SIGNALING IN BREAST CANCER: INSIGHTS FROM ANIMAL MODELS AND HUMAN CELLS.	10:10 AM	10:35 AM
J. White	MOLECULAR GENETIC LINKS BETWEEN VITAMIN D SIGNALING AND THE PATHOGENESIS OF CROHN'S DISEASE	10:35 AM	11:00 AM
J. Fleet	DISRUPTION OF VITAMIN D SIGNALING BY LOW DIETARY VITAMIN D OR VITAMIN D RECEPTOR (VDR) DELETION INCREASES ANDROGEN DEPENDENT PROLIFERATION AND REDUCES APOPTOSIS IN MOUSE PROSTATE EPITHELIAL CELLS.	11:00 AM	11:15 AM
P. MacDonald	ROLE OF THE VDR IN PROTECTION AGAINST EPIDERMAL TUMOR FORMATION	11:15 AM	11:40 AM
Session XIX	POSTER SESSION C - LUNCH	11:40 AM	1:40 PM



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Thursday

8 October PM

Session XX RENAL OSTEODYSTROPHY

Session Chairs:
 D. Goltzman and R. Thadani

E. Slatopolsky	CARDIO-RENAL ACTIVATORS OF THE VDR IN RENAL FAILURE.	1:40 PM	2:05 PM
A. Dusso	VITAMIN D INHIBITION OF TACE AND PREVENTION OF RENAL OSTEODYSTROPHY.	2:05 PM	2:30 PM
JC. Souberbielle	VITAMIN D (VTD) DEFICIENCY AND PRIMARY HYPERPARATHYROIDISM (PHPT): CAUSE AND/OR CONSEQUENCE	2:30 PM	2:50 PM

Session XXI CANCER D

Session Chair:
 D. Feldman

D. Trump	CALCITRIOL POTENTIATES THE CYTOTOXIC EFFECTS OF CISPLATIN THROUGH UPREGULATION OF P73	2:50 PM	3:05 PM
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Coffee Break 3:05 PM 3:25 PM

Session XXII CARDIOVASCULAR & METABOLISM

Session Chairs:
 R. Bouillon and D. Gardner

B. Dawson-Hughes	VITAMIN D AND DIABETES RISK.	3:25 PM	3:50 PM
D. Gardner	CARDIOMYOCYTE-SPECIFIC VITAMIN D RECEPTOR GENE KNOCKOUT CAUSES CARDIAC HYPERTROPHY.	3:50 PM	4:05 PM
P. von Hurst	VITAMIN D SUPPLEMENTATION REDUCES INSULIN RESISTANCE IN WOMEN WHO ARE INSULIN RESISTANT AND VITAMIN D DEFICIENT.	4:05 PM	4:20 PM
K. Wong	THE VITAMIN D RECEPTOR INVOLVED IN THE REGULATION OF ENERGY METABOLISM	4:20 PM	4:35 PM
C. Narvaez	IMPACT OF THE VITAMIN D RECEPTOR (VDR) ON AGE-RELATED MESENCHYMAL CELL LINEAGE DETERMINATION.	4:35 PM	4:50 PM
C. Bernal-Mizrachi	1,25(OH) ₂ VITAMIN D INHIBITS FOAM CELL FORMATION AND SUPPRESSES MACROPHAGE CHOLESTEROL UPTAKE IN PATIENTS WITH TYPE 2 DIABETES	4:50 PM	5:05 PM

Closing Remarks: **R. Bouillon and A. Norman** 5:05 PM 5:20 PM

Cultural Event: Free guided visit of the Memling Museum 6:00 PM 8:00 PM