Scientific Program – Wednesday and Thursday

Wednesday, May 29, 2019

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	8:00PM 8:00PM	Registration / Hospitality Desk Opens Welcome Reception and Plenary Poster Session					
Thursday, May 30, 2019							
8:00 -	8:15AM	OPENING REMARKS J. Fleet, Workshop Chair					
Session I:		KEYNOTE I: THE YEAR IN VITAMIN D: BASIC RESEARCH Moderator: J. Welsh					
	8:55AM 9:00AM	C. Bernal-Mizrachi Discussion	THE YEAR IN VITAMIN D: BASIC RESEARCH				
Session II:		VITAMIN D RECEPTOR – TRANSCRIPTION/MECHANISM OF ACTION Moderator: S. Christakos					
	9:25AM 9:30AM	M. Campbell Discussion	OPPORTUNITIES, CHALLENGES, AND FUTURE PROSPECTS FOR GENOMICS APPROACHES IN VITAMIN D RESEARCH				
	9:40AM 9:45AM	T. Ishii Discussion	THE ROLE OF PIAS4-MEDIATED SUMOYLATION IN THE REGULATION OF VITAMIN D RESPONSE				
	9:55AM 10:00AM	S.M. Lee Discussion	VITAMIN D AND PHOSPHATE REGULATE FIBROBLAST GROWTH FACTOR 23 EXPRESSION VIA TRANSCRIPTIONAL MECHANISMS				
	10:10AM 10:15AM	J. White <i>Discussion</i>	A GLOBAL REANALYSIS OF 80 GENE EXPRESSION PROFILING STUDIES PROVIDES NUMEROUS INSIGHTS INTO CELL-SPECIFIC INNATE IMMUNE REGULATION BY 1,25(OH) $_2D_3$				
10:15 -	10:40AM	BREAK					
Session III:		VITAMIN D METABOLISM (Dr. Helen Henry Memorial Session) Moderator: M. Hewison					
10:40 -	10:45AM	D. Bikle	INTRODUCTION				
10:45 -	11:10AM	M. Meyer	MECHANISTIC BASIS FOR THE REGULATION OF VITAMIN D				

10:40 - 10:45AM	D. Bikle	INTRODUCTION
10:45 - 11:10AM 11:10 - 11:15AM	M. Meyer Discussion	MECHANISTIC BASIS FOR THE REGULATION OF VITAMIN D METABOLISM BY CALCIOTROPIC AND PHOSPHATURIC HORMONES IN THE KIDNEY AND HORMONE FEEDBACK REGULATION BY 1,25(OH) ₂ D ₃
11:15 - 11:25AM 11:25 - 11:30AM	J. Cleal Discussion	PLACENTAL UPTAKE AND METABOLISM OF VITAMIN D; A POTENTIAL MEDIATOR OF FETAL GROWTH?
11:30 - 11:40PM 11:40 - 11:45PM	J. Welsh Discussion	ACCUMULATION OF VITAMIN D IN MAMMARY GLAND: ROLE OF DIET AND VITAMIN D BINDING PROTEIN

11:45 - 11:55AM 11:55 - 12:00PM	M. Kaufmann Discussion	RATIO OF 25-HYDROXYVITAMIN D3-TO-24,25-DIHYDROXYVITAMIN D₃: A VITAMIN D METABOLISM-BASED BIOMARKER OF CHRONIC KIDNEY DISEASE PROGRESSION	
12:00 - 12:30PM	POSTER SESSION I PR	EVIEWS ("FLASH" POSTER SESSION I)	
12:30 - 2:30PM	POSTER SESSION I WI	TH LUNCH	
Session IV:	UPDATE ON VITAMIN D SUPPLEMENTATION TRIALS (VITAL, VIDA, D2d) (sponsored by Abiogen) Moderators: J. Fleet and R. Bouillon		
2:30 - 2:35PM	J. Fleet	INTRODUCTION AND CONTEXT	
2:35 - 3:00PM 3:00 - 3:05PM	R. Scragg Questions	THE <u>VI</u> TAMIN <u>D</u> <u>A</u> SSESSMENT (VIDA) STUDY – DESIGN AND MAIN FINDINGS	
3:05 - 3:30PM 3:30 - 3:35PM	J. Manson <i>Questions</i>	THE $\underline{\textit{VIT}}$ AMIN D AND OMEG $\underline{\textit{A}}$ -3 TRIA $\underline{\textit{L}}$ (VITAL) - VITAMIN D SUPPLEMENTS AND PREVENTION OF CANCER AND CARDIOVASCULAR DISEASE	
3:35 - 4:00PM	BREAK		
4:00 - 4:25PM 4:25 - 4:30PM	A. Pittas Questions	THE VITAMIN <u>D</u> AND TYPE <u>2 D</u> IABETES (D2D) STUDY	
4:30 - 5:00PM	All	DISCUSSION OF SUPPLEMENTATION TRIALS WITH DIRECTED QUESTIONS	
Session V:	ERADICATION OF RICKETS Moderator: R. Jorde		
5:00 - 5:30PM	R. Bouillon	BRIEF COMMENTARY AND DISCUSSION	
7:00 - 10:00PM	NETWORKING DINNER EVENT: CRUISE AROUND MANHATTAN ON CIRCLE LINE TICKET IS REQUIRED (BOARDING BEGINS AT 6:30 PM)		

Scientific Program – Friday

Session VI:	VITAMIN D AND CANCER Moderators: E. Kallay and D. Feldman		
8:00 - 8:25AM 8:25 - 8:30AM	L. Augenlicht Discussion	VITAMIN D AND THE NUTRITIONAL ENVIRONMENT DETERMINE WHICH AND HOW INTESTINAL STEM CELLS CONTRIBUTE TO HOMEOSTASIS AND TUMORIGENESIS	
8:30 - 8:40AM 8:40 - 8:45AM	P. Hershberger Discussion	VITAMIN D METABOLITES EXERT BENEFICIAL EFFECTS IN EGFR MUTANT LUNG CANCERS	
8:45 - 8:55AM 8:55 - 9:00AM	J. Fleet Discussion	1, 25 DIHYDROXYVITAMIN D (1,25(OH)₂D) INHIBITS THE T CELL SUPPRESSIVE FUNCTION OF MYELOID DERIVED SUPPRESSOR CELLS (MDSC)	
9:00 - 9:10AM 9:10 - 9:15AM	J. Garcia Discussion	REGULATION OF MEGALIN BY VITAMIN D AS THE MECHANISM FOR DIFFERENTIAL LEVELS OF INTRA-PROSTATIC ANDROGENS BETWEEN AFRICAN AMERICAN AND CAUCASIAN MEN	
9:15 - 9:25AM 9:25 - 9:30AM	C. Peng Discussion	PRE-DIAGNOSTIC CIRCULATING 25-HYDROXYVITAMIN D, BREAST TUMOR GENE EXPRESSION AND BREAST CANCER RECURRENCE IN THE NURSES' HEALTH STUDIES	
9:30 - 9:40AM 9:40 - 9:45AM	A. Heath Discussion	25-HYDROXYVITAMIN D CONCENTRATION AND CAUSE-SPECIFIC MORTALITY: THE MELBOURNE COLLABORATIVE COHORT STUDY	
9:45 - 10:15AM	BREAK		
9:45 - 10:15AM Session VII:		IICROBIOME OR IMMUNITY na and J. White	
	VITAMIN D AND THE M		
Session VII: 10:15 - 10:40AM	VITAMIN D AND THE M Moderators: M. Cantor V. Tangpricha	na and J. White IMPACT OF VITAMIN D ON THE MICROBIOME IN PATIENTS WITH	
Session VII: 10:15 - 10:40AM 10:40 - 10:45AM 10:45 - 10:55AM	VITAMIN D AND THE M Moderators: M. Cantor V. Tangpricha Discussion J. Arora	na and J. White IMPACT OF VITAMIN D ON THE MICROBIOME IN PATIENTS WITH CYSTIC FIBROSIS VITAMIN D REGULATES THE MICROBIOTA TO INDUCE RORγT/FOXP3+	
Session VII: 10:15 - 10:40AM 10:40 - 10:45AM 10:45 - 10:55AM 10:55 - 11:00AM 11:00 - 11:10AM	VITAMIN D AND THE M Moderators: M. Cantor V. Tangpricha Discussion J. Arora Discussion S. Tukaj	IMPACT OF VITAMIN D ON THE MICROBIOME IN PATIENTS WITH CYSTIC FIBROSIS VITAMIN D REGULATES THE MICROBIOTA TO INDUCE RORγT/FOXP3+ REGULATORY T CELLS CALCITRIOL TREATMENT AMELIORATES INFLAMMATION AND BLISTERING IN MOUSE MODELS OF EPIDERMOLYSIS BULLOSA	
Session VII: 10:15 - 10:40AM 10:40 - 10:45AM 10:45 - 10:55AM 10:55 - 11:00AM 11:00 - 11:10AM 11:10 - 11:15AM 11:15 - 11:25AM	VITAMIN D AND THE M Moderators: M. Cantor V. Tangpricha Discussion J. Arora Discussion S. Tukaj Discussion YC Li	IMPACT OF VITAMIN D ON THE MICROBIOME IN PATIENTS WITH CYSTIC FIBROSIS VITAMIN D REGULATES THE MICROBIOTA TO INDUCE RORγT/FOXP3+ REGULATORY T CELLS CALCITRIOL TREATMENT AMELIORATES INFLAMMATION AND BLISTERING IN MOUSE MODELS OF EPIDERMOLYSIS BULLOSA ACQUISITA VITAMIN D/VITAMIN D RECEPTOR SIGNALING IS REQUIRED FOR NORMAL DEVELOPMENT AND FUNCTION OF GROUP 3 INNATE	

12:00 - 12:30PM		POSTER SESSION II PREVIEWS ("FLASH" POSTER SESSION II)		
		J. Fleet		
12:30 -	2:30PM	POSTER SESSION II WI	TH LUNCH	
Session VIII:		VITAMIN D REGULATION OF BONE AND MINERAL METABOLISM (Dr. Robert Wasserman Memorial Session) Moderators: G. Carmeliet and P. Anderson		
2:30 -	2:35PM	S. Christakos	INTRODUCTION	
	3:00PM 3:05PM	S. Christakos Discussion	NEW INSIGHTS INTO VDR SIGNALING IN MOUSE AND HUMAN INTESTINAL BIOLOGY	
	3:15PM 3:20PM	E. Liu Discussion	IMPAIRED 1,25 DIHYDROXYVITAMIN D ACTION UNDERLIES ENTHESOPATHY DEVELOPMENT IN THE HYP MOUSE MODEL OF XLH	
	3:30PM 3:35PM	S. Doms Discussion	UNLIGANDED VDR SIGNALING NEGATIVELY AFFECTS BONE MASS	
	3:45PM 3:50PM	C. Sempos Discussion	25(OH)D REQUIREMENTS TO PREVENT RICKETS IN NIGERIAN CHILDREN ON A LOW CALCIUM DIET	
3:50 -	4:15PM	BREAK		
Session IX:		IMPACT OF GENETICS ON VITAMIN D Moderator: M. Campbell		
_	4:40PM 4:45PM	B. Richards Discussion	MENDELIAN RANDOMIZATION AS A TOOL TO UNDERSTAND THE ROLE OF VITAMIN D IN DISEASE SUSCEPTIBILITY	
	4:55PM 5:00PM	F. Ideraabdullah Discussion	CHARACTERIZING THE ROLE OF GENETIC BACKGROUND IN OFFSPRING EPIGENETIC DYSREGULATION BY MATERNAL VITAMIN D DEFICIENCY	
	5:10PM 5:15PM	A. Molin Discussion	IDIOPATHIC INFANTILE HYPERCALCEMIA CAUSED BY SLC34A1 MUTATIONS: A DIFFICULT DIAGNOSIS	
	5:25PM 5:30PM	R. Dhaduk Discussion	VITAMIN D GENETIC VARIANTS AND 25-HYDROXYVIAMIN D ACROSS FIVE POPULATIONS OF AFRICAN DESCENT: THE METS/VIDA STUDY	
5:30 - 6:00PM		AWARDS CEREMONY Moderators: J. Fleet, J. Welsh and J. Rathmacher		

Scientific Program - Saturday

Session X: KEYNOTE II: THE YEAR IN VITAMIN D: CLINICAL/POPULATION RESEARCH

Moderator: M. McKenna

8:00 - 8:40AM I. Schoenmakers THE YEAR IN VITAMIN D – CLINICAL AND POPULATION RESEARCH

8:40 - 8:45AM *Discussion*

Session XI: VITAMIN D AND PUBLIC HEALTH

Moderator: S. Whiting

8:45 - 9:10AM S. Atkinson VITAMIN D INTAKE GUIDELINES FOR PERSONS AFFECTED BY
9:10 - 9:15AM Discussion MULTIPLE SCLEROSIS (MS) FROM THE MS SOCIETY OF CANADA

9:15 - 9:25AM K. Cashman EXPLORATION OF STRATEGIC FOOD VEHICLES FOR VITAMIN D

9:25 - 9:30AM Discussion FORTIFICATION IN LOW-MIDDLE INCOME COUNTRIES

Session XII: NEW FUNCTIONS OF VITAMIN D

Moderator: R. Erben

9:30 - 9:40AM J. Rullo INTRAOCULAR CALCIFEDIOL: UNCOVERING A ROLE FOR VITAMIN

9:40 - 9:45AM Discussion D IN THE EYE

9:45 - 9:55AM E. Mandell MATERNAL VITAMIN D DEFICIENCY DECREASES DISTAL LUNG

9:55 - 10:00AM Discussion VASCULAR DEVELOPMENT AND PULMONARY ENDOTHELIAL CELL

GROWTH AND FUNCTION IN INFANT RATS

10:00 - 10:10AM N. Latic ABLATION OF VITAMIN D SIGNALING IN CARDIOMYOCYTES LEADS

10:10 - 10:15AM Discussion TO FUNCTIONAL IMPAIRMENT IN EXPERIMENTAL LEFT VENTRICULAR

HYPERTROPHY

10:15 - 10:40AM **BREAK**

Session XIII: CONTROVERSY – VITAMIN D REQUIREMENTS DURING PREGNANCY

Moderator: M. Keily

10:40 - 10:55AMM. KeilyCONTEXT AND BACKGROUND10:55 - 11:10AMC. WagnerIDENTIFICATION OF KEY ISSUES I11:10 - 11:25AMD. RothIDENTIFICATION OF KEY ISSUES II

11:25 - 12:00PM All MODERATED DISCUSSION

12:00 - 12:15PM **CLOSING REMARKS**

J. Fleet, Workshop Chair