Abstracts

Growth of vitamin D research over the past 52 years has resulted in over 33,770 papers [Vitamin D in the Title or Abstract @ PubMed]
Scientific Program

16th Vitamin D Workshop

June 11 – 14, 2013
The Palace Hotel
San Francisco, CA
Main Molecular Image: Not surprisingly, the molecular model describes the three dimensional shape of the steroid hormone, $1\alpha,25$-dihydroxy vitamin $D_3$ that binds selectively and tightly to its cognate protein receptor, the vitamin D receptor (VDR). The two-dimensional structure (lower right) is also $1\alpha,25(OH)_2D_3$. The fine lines connect each atom in the two-dimensional view with the same atom in the 3D model.

Histogram: The histogram reports the number of papers published and listed in the National Library of Medicine that included the term ‘Vitamin D’ in either the Title or the Abstract from 1960 – 2012. In the past 52 years over 33,770 papers have been published on vitamin D. In 2012 there were 3,600 papers and it is projected that in 2013 it will be ~4,500 papers.

Image of Man: The image is known as the Vitruvian Man.

The front cover was designed by Sohail Wasif, in Computing and Communications at the University of California, Riverside.

The Vitruvian Man is a world-renowned drawing created by Leonardo da Vinci in about 1487. It is accompanied by notes based on the work of the famed architect, Vitruvius. The drawing, which is in pen and ink on paper, depicts a male figure in two superimposed positions with his arms and legs apart and simultaneously inscribed in a circle and square. The drawing and text are sometimes called the Canon of Proportions. It is stored in the Gallerie dell’Accademia in Venice, Italy.

The drawing is based on the correlations of ideal human proportions with geometry described by the ancient Roman architect Vitruvius in Book III of his treatise De Architectura. Vitruvius described the human figure as being the principal source of proportion among the classical orders of architecture. Leonardo’s drawing is traditionally named in honor of the architect. (Abstracted from Wikipedia)
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## Abstracts on Vitamin D

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# 16th Workshop on Vitamin D
## Time Table

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<td>Workshop Executive Committee (WEC) (Closed Meeting)</td>
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<td>Registration Desk Opens</td>
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<tr>
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<td>Opening Reception</td>
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### Wednesday, June 12, 2013

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<td>10:35 - 11:55 AM</td>
<td>Session II</td>
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<td>Session III: Poster Session A (Boxed Lunch)</td>
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<td>Recognition of Workshop Award Recipients</td>
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<td>Session XVII</td>
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<tr>
<td>5:30 - 7:30 PM</td>
<td>Workshop Executive Committee (WEC) (Closed Meeting)</td>
<td>Grant</td>
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Official Sponsors
16th Workshop on Vitamin D

Leadership Sponsors

Chugai Pharmaceutical Co. Ltd., Japan
Heartland Assays, USA
Pfizer, Inc., USA
Teijin Pharma, Ltd., Japan
Bio-Tech Pharmacal, Inc., USA

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16th Workshop on Vitamin D

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JoEllen Welsh, USA
Roger Bouillon, Belgium
Sylvia Christakos, USA

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Paul Lips, The Netherlands
Rebecca Mason, Australia
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Hans Van Leeuwan, The Netherlands
Reinhold Vieth, Canada
John White, Canada
Susan Whiting, Canada

Riverside Committee

Nancy Day

Meetings Plus

Roxanne Hall
Aelinor Conaway
Carol Montgomery
Natalie Bishop
Jean Hood
Cherie Johnston
General Information
16th Workshop on Vitamin D
June 11 – 14, 2013

Welcoming Reception, Tuesday, June 11, 2013

Please join us for a Welcoming Reception Tuesday evening from 6:00 – 8:00 PM. All delegates and their registered accompanying guests are cordially invited.

Poster Sessions, Wednesday – Friday, June 12 – 14, 2013

There will be three poster sessions during the Workshop. The poster sessions will be held each afternoon during the lunch period in the Gold Ballroom.

Wednesday Poster Session Mount Time: June 11th between 5:00 pm – 9:00 pm or on June 12th before 9:00 am. Posters should remain up for viewing until 4:30 pm on June 12th.
Wednesday Poster Removal: 4:30 – 6:30 pm.

Thursday Poster Session Mount Time: June 12th between 6:30 – 9:00 pm or on June 13th before 9:00 am. Posters should remain up for viewing until 4:30 pm on June 13th.
Thursday Poster Removal: 4:30 – 6:30 pm.

Friday Poster Session Mount Time: June 13th between 6:30 – 9:00 pm or on June 14th before 9:00 am. Posters should remain up for viewing until 3:30 pm on June 14th.
Friday Poster Removal: 4:30 – 6:30 pm

Lunches

On Wednesday, Thursday and Friday, lunches are included in the registration fee. The box lunches will be available each day outside the Grand Ballroom.

Coffee Breaks

All registered Delegates are invited to enjoy a cup of coffee during the coffee breaks outside the Grand Ballroom.

Social Event: Thursday, June 13th

All registered delegates and registered guests are invited to participate in an informal buffet. A cash bar will be available.
### Scientific Program – Wednesday

#### 16th Workshop on Vitamin D

**Wednesday, June 12, 2013**

**Session I:** D-Code ENCODE  
Session Chair: J. Wesley Pike

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Title</th>
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<tbody>
<tr>
<td>8:30 - 9:05 AM</td>
<td>J. Stamatoyannopoulos</td>
<td>WHAT IS ENCODE?</td>
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<tr>
<td>9:05 - 9:15 AM</td>
<td>Discussion</td>
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<tr>
<td>9:15 - 9:40 AM</td>
<td>W. Pike</td>
<td>GENOME-WIDE TECHNIQUES REVEAL NOVEL DETAILS OF BONE CELL GENE REGULATION BY 1α,25-DIHYDROXYVITAMIN D₃</td>
</tr>
<tr>
<td>9:40 - 9:45 AM</td>
<td>Discussion</td>
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<tr>
<td>9:45 - 10:10 AM</td>
<td>C. Carlberg</td>
<td>THE USE OF ENCODE DATA FOR UNDERSTANDING GENOME-WIDE VITAMIN D RECEPTOR SIGNALING</td>
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<tr>
<td>10:10 - 10:15 AM</td>
<td>Discussion</td>
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<tr>
<td>10:15 - 10:35 AM</td>
<td>COFFEE BREAK</td>
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**Session II:** Epigenetics and Transcriptional Regulation  
Session Chair: Moray Campbell

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<tr>
<th>Time</th>
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<tr>
<td>10:35 - 10:40 AM</td>
<td>Introduction by Chair</td>
<td>ROLE OF VITAMIN D IN EPIGENETIC REGULATION OF THE GENOME</td>
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<tr>
<td>10:40 - 11:05 AM</td>
<td>S. Ramagopalan</td>
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<tr>
<td>11:05 - 11:10 AM</td>
<td>Discussion</td>
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<td>11:10 - 11:20 AM</td>
<td>P. Singh</td>
<td>DISTORTED TARGETING OF CO-REPRESSORS TO VDR TARGET GENES IN PROSTATE CANCER PROGRESSION</td>
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<tr>
<td>11:20 - 11:25 AM</td>
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<tr>
<td>11:25 - 11:35 AM</td>
<td>M. Meyer</td>
<td>EPIGENETIC PLASTICITY DEFINES TRANSCRIPTIONAL ACTIONS FOR VDR IN DIFFERENTIATION</td>
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<td>11:35 - 11:40 AM</td>
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**Session III:** Poster Session A

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<th>Time</th>
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<td>Box Lunch and Poster Viewing</td>
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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-DIHYDROXYVITAMIN 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 CYP27B1 TO CIRCULATING 1,25(OH)2D LEVELS
3:00 - 3:05 PM  Discussion

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-HYDROXYVITAMIN 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
Scientific Program – Thursday
16th Workshop on Vitamin D

Thursday, June 13, 2013

Session VII: Vitamin D Regulated Pathways in Malignancy
Session Chair: JoEllen Welsh

8:30 - 8:35 AM Introduction by Chair

8:35 - 9:00 AM
W. Bai
ROLE OF MICRORNAS IN OVARIAN CANCER
9:00 - 9:05 AM
Discussion
SUPPRESSION BY VITAMIN D

9:05 - 9:30 AM
S. Gonzalo
NOVEL ROLES OF 1α,25(OH)2D3 IN DNA
9:30 - 9:35 AM
Discussion
REPAIR PROVIDE NEW STRATEGIES FOR BREAST CANCER TREATMENT

9:35 - 9:45 AM
J. Welsh
MODELING VITAMIN D ACTIONS IN BASAL-LIKE BREAST CANCER
9:45 - 9:50 AM
Discussion

9:50 - 10:00 AM
J. White
E3 UBIQUITIN LIGASE AND TUMOR
10:00 - 10:05 AM
Discussion
SUPPRESSOR FBW7 AS A HUB OF 1α,25(OH)2D3-MEDIATED CELL CYCLE ARREST

10:05 - 10:15 AM
J. Lundqvist
WSTF IS A KEY PLAYER IN VITAMIN D
10:15 - 10:20 AM
Discussion
MEDIATED DOWN REGULATION OF ESTROGEN RECEPTOR SIGNALING IN BREAST CANCER CELLS

10:20 - 10:40 AM COFFEE BREAK

Session VIII: Regulation of Vitamin D Metabolism and Function by miRNAs
Session Chair: Martin Hewison

10:40 - 10:45 AM Introduction by Chair

10:45 - 11:10 AM
Y.C. Li
CRITICAL ROLES OF MICRORNA-155 IN 1,25-DIHYDROXYVITAMIN D REGULATION OF INNATE IMMUNE RESPONSE
11:10 - 11:15 AM
Discussion

11:15 - 11:25 AM
Y. Jiang
LONG NON-CODING RNA: A NOVEL MECHANISM FOR THE PROTECTIVE ROLE OF VITAMIN D SIGNALING IN SKIN CANCER FORMATION
11:25 - 11:30 AM
Discussion

11:30 - 11:40 AM
W. Wang
MODULATION OF ENERGY METABOLISM IN PROSTATE CANCER CELLS BY 1,25(OH)2D3
11:40 - 11:45 AM
Discussion

11:45 - 11:55 AM
R. Kasiappan
1α,25-DIHYDROXYVITAMIN D3 SUPPRESSES LEPTIN STIMULATION OF TUMOR GROWTH THROUGH MICRORNA-498-MEDIATED TELOMERASE DOWN-REGULATION
11:55 - 12:00 PM
Discussion
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  The Impact of 1,25(OH)₂D₃ on Immune Mediated Disease
1:45 - 1:50 PM  Discussion

1:50 - 2:00 PM  T. Takiishi  Oral Vitamin D₃ Supplementation Safely Prevents Diabetes in NOD Mice When Given Long Term
2:00 - 2:05 PM  Discussion

2:05 - 2:15 PM  A. Mehrota  Impact of D₃ Repletion of Alloreactivity in Vitamin D Deficient Hemodialysis Patients: A Randomized Controlled Trial
2:15 - 2:20 PM  Discussion

2:20 - 2:30 PM  G.B. Ferreira  1α,25-Dihydroxyvitamin D₃ and the Generation of Tolerogenic Dendritic Cells as Vaccination Therapy in Type 1 Diabetes
2:30 - 2:35 PM  Discussion

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  FGF23 and Its Impact on Vitamin D Metabolism in Chronic Kidney Disease
3:05 - 3:10 PM  Discussion

3:10 - 3:20 PM  J. Kong  Vitamin D Receptor Attenuates Acute Lung Injury by Blocking the Angiopoietin-2-Tie-2 Pathway and the Renin-Angiotensin System
3:20 - 3:25 PM  Discussion

3:25 - 3:35 PM  N. Rochel  Temporal Control of VDR Mediated Signaling in Mice Expressing a Structure-Base Point Mutated VDR
3:35 - 3:40 PM  Discussion

3:40 - 4:00 PM  COFFEE BREAK
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<th>Topic</th>
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<td>Introduction by Chair</td>
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<tr>
<td>4:05 - 4:30 PM</td>
<td>J. Fleet</td>
<td><strong>FORWARD AND REVERSE GENETIC APPROACHES REVEAL CRITICAL ASPECTS OF VITAMIN D REGULATED INTESTINAL CALCIUM ABSORPTION</strong></td>
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<td>P. Dhawan</td>
<td><strong>TRANSGENIC EXPRESSION OF THE VITAMIN D RECEPTOR (VDR) RESTRICTED TO THE ILEUM, CECUM AND COLON OF VDR KNOCKOUT MICE RESCUES VDR DEPENDENT RICKETS</strong></td>
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<td>H. Morris</td>
<td><strong>DELETION OF VDR IN MATURE OSTEOBLASTS RESULTS IN INCREASED BONE VOLUME DURING GROWTH DUE TO IMPAIRED RANKL-MEDIATED BONE RESORPTION</strong></td>
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<td>J. Ryan</td>
<td><strong>GENDER RELATED DIFFERENCES IN THE SKELETAL PHENOTYPE OF AGED VITAMIN D RECEPTOR (VDR) KNOCKOUT MICE</strong></td>
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<td>6:30 - 8:00 PM</td>
<td>Social Event: Workshop Buffet</td>
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Friday, June 14, 2013

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
12:05 - 1:35 PM  Box Lunch and Poster Viewing

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