

## **Organizing Committee**

J. Reichrath, Th. Vogt and M. Friedrich

### **Under the Auspices of**

Deutsche Forschungsgemeinschaft (DFG)  
Deutsche Krebsgesellschaft E. V. (DKG)

### **Invited Speakers**

Bouillon R (Leuven, Belgium), Brenner H  
(Heidelberg, Germany), Carlberg C  
(Louxemburg), Chen T (Boston, USA), Cross  
HS (Vienna, Austria), Feldman D (Stanford,  
USA), Giovannucci E (Boston, USA), Grant WB  
(San Francisco, USA), Haussler MR (Phoenix,  
USA), Holick MF (Boston, USA), Jones G  
(Kingston, Canada), Moan J (Oslo, Norway),  
Muñoz A (Madrid, Spain), Newton-Bishop JA  
(Leeds, United Kingdom), Pringle JH  
(Leicester, United Kingdom), Trump D (Buffalo,  
USA), Vieth R (Toronto, Canada), Zittermann A  
(Bad Oeynhausen, Germany)

## **Scientific Board**

C. Carlberg, Luxemburg  
D. Feldman, Palo Alto  
M. Friedrich, Krefeld  
M.F. Holick, Boston  
J. Reichrath, Homburg/Saar  
Th. Vogt, Homburg/Saar

## **General Information**

### **Dates and Place**

The congress will be held at the Schlossberg  
Hotel in Homburg, Germany  
May 20 – 21, 2011

### **Conference Language**

English

### **Organization, Information**

Ms. D. Neurohr  
Secretary to Prof. Dr. Jörg Reichrath  
Department of Dermatology  
The Saarland University Hospital  
D-66421 Homburg/Saar, Germany  
Tel.: 0049-(0)6841-1623832  
Fax: 0049-(0)6841-1623845  
E-mail: joerg.reichrath@uks.eu

**4<sup>TH</sup> INTERNATIONAL**

**SYMPOSIUM**

## **Vitamin D and Analogs in Cancer Prevention and Therapy**



**May 20 – 21, 2011**  
**Schlossberg Hotel**  
**Homburg, Germany**

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**Preliminary Program**

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## Welcome

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Dear Colleagues!

This time it's Homburg, again! On behalf of the scientific committee it is a pleasure to invite you to the 4<sup>th</sup> International Symposium *Vitamin D and Analogs in Cancer Prevention and Therapy*.

During the past years our knowledge about molecular biology, metabolism and biologic effects of vitamin D and analogs has exploded. These findings have led to new concepts for the application of vitamin D and analogs to cancer, and it is obvious that enormous progress is being made on this area. This meeting is specifically designed to offer scientists and clinicians insights into the latest developments in this intriguing research area. The program will include keynote lectures as well as free communications. You are cordially invited to join this meeting.

We hope to see you soon in Homburg!

Jörg Reichrath

Thomas Vogt

Michael Friedrich

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## Preliminary Program

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Friday, May 20

8.30 AM – 5.00 PM

### I. Molecular Biology of Vitamin D

The current understanding of the function of the nuclear vitamin D receptor (VDR) – a genome-wide perspective

Vitamin D and calcium signaling

New insights in nongenomic actions of 1,25(OH)<sub>2</sub>D<sub>3</sub>

Synthesis and metabolism of vitamin D analogs

Extrarenal synthesis of 1,25(OH)<sub>2</sub>D<sub>3</sub> and the physiological consequences

Epigenetic modulation of vitamin D signalling pathways

Vitamin D and nutrigenomics

### II. The Vitamin D Endocrine System in Cancer

Expression and function of VDR in cancer: VDR microRNA and beyond

The vitamin D endocrine system and tumor stem cells

The vitamin D endocrine system and angiogenesis in cancer

VDR/DBP and CYP2R1- polymorphism: relevance for cancer risk and prognosis?

Molecular biology of CYP27B1 and CYP24A1: new insights in pathogenesis and progression of cancer?

### III. Epidemiology and Vitamin D in Cancer Prevention

Vitamin D and cancer: evidence of epidemiological studies

### IV. Antitumor Effects of Vitamin D Analogs (I): in vitro and Animal Studies

Molecular basis for antitumor effects of vitamin D and analogs

Antitumor effects of vitamin D analogs in leukemia, cancer of prostate, breast, and other tissues: in vitro and animal studies

Synergistic antitumor effects of vitamin D and analogs with chemotherapeutics and/or cytokines

Combination of vitamin D and analogs with inhibitors of vitamin D metabolism

Modulation of vitamin D signalling pathways by epigenetic modulating drugs

Saturday, May 21

8.00 AM – 1.00 PM

### V. Antitumor Effects of Vitamin D Analogs (II): Clinical Studies

Promising new vitamin D analogs

Actual aspects and results of clinical studies

### VI. Round Table Discussion

Challenge and promise: will vitamin D and analogs herald a new era in cancer prevention and treatment?