General Information and Organization

Dates and Place
The congress will be held June 21-23, 2017 at the Schlossberg Hotel in Homburg, Germany.

Schlossberg-Hotel Homburg OHG
Schlossberg-Höhenstraße 66424 Homburg
Telephone +49 (0) 6841 / 6 66 0

More Information on www.schlossberghotel-homburg.de

Conference Language
English

Organization + Information
Dr. K. Heyne and Ms. D. Neurohr
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Organizing Committee
Vitamin D in Prevention and Therapy
J. Reichrath, M. Friedrich and Th. Vogt
Biologic Effects of Light
J. Reichrath, Th. Vogt and M.F. Holick

Scientific Board
M. Friedrich (Krefeld), W.B. Grant (San Francisco), M. F. Holick (Boston), J. Reichrath (Homburg), Th. Vogt (Homburg)

Invited Speakers (confirmed)

Berg K (Oslo, Norway, Germany)
Bittenbring J (Homburg, Germany)
Carberg C (Huopio, Finland)
de Grujil FR (Leiden, Netherlands)
Emmert S (Rostock, Germany)
Grant WB (San Francisco, USA)
Holick MF (Boston, USA)
Lammert F (Homburg, Germany)
März W (Mannheim, Germany)
Newton-Bishop J (Leeds, United Kingdom)
Pike JW (Madison, USA)
Pilz S (Graz, Austria)
Römer K (Homburg, Germany)
Schiekofer C (Homburg, Germany)
Seckmeyer G (Hannover, Germany)
Tyrrell R (Bath, United Kingdom)
Vieth R (Toronto, Canada)
Volmer DA (Saarbrücken, Germany)
Zittermann A (Bad Oeynhausen, Germany)

How to get there
You will find further detailed information on how to get to Homburg as well as detailed campus maps on www.uks.eu/anfahrt

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Joint International Symposium
Vitamin D in Prevention and Therapy and Biologic Effects of Light
June 21 - 23, 2017, Schlossberg Hotel Homburg, Germany
**Dear Colleagues!**

This time it’s Homburg, again. On behalf of the scientific committee it is a pleasure to invite you to the Joint International Symposium Vitamin D in Prevention and Therapy and Biologic Effects of Light. During the past years our knowledge about the intertwined, fascinating and pleiotropic biologic effects of vitamin D and optical radiation has exploded. These findings have lead to new concepts for the prevention and treatment of many diseases, and it is obvious that enormous progress is being made on this topic.

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**This meeting is specifically designed to offer scientists and clinicians new insights in pathogenesis and progression of cancer?**

**How is the evidence?**

**Vitamin D and cancer: evidence of epidemiological studies**

**VDR polymorphisms and cancer: how is the evidence?**

**Antitumor Effects of Vitamin D Analogs (I): in vitro and Animal Studies**

**Molecular basis for antitumor effects of vitamin D and analogs**

**Synthesis and metabolism of vitamin D analogs**

**Antitumor effects of vitamin D analogs in leukemia, cancer of prostate, breast, and other tissues: in vitro and Animal Studies**

**Molecular Biology of Vitamin D**

**Current understanding of vitamin D receptor function – a genome-wide perspective**

**Alternate receptors and alternate ligand binding pockets: how is the evidence?**

**Vitamin D and calcium signalling new insights in nongenomic actions of 1,25(OH)2D3**

**Impact of VDR/p53 cross-talk and tumor suppression**

**Extraneous synthesis of 1,25(OH)2D3 and the physiological consequences**

**Epigenetic modulation of vitamin D signaling pathways**

**Vitamin D and neuroregenics**

**The Vitamin D Endocrine System in Cancer**

**Expression and function of VDR in cancer:**

**VDR microRNA and beyond**

**The vitamin D endocrine system, senescence and tumor stem cells**

**The vitamin D endocrine system and angiogenesis in cancer**

**VDR/GBP and CYP2R1: polymorphism: relevance for cancer risk and prognosis?**

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

**Epidemiology and Vitamin D in Cancer Prevention**

**Vitamin D and cancer: evidence of epidemiological studies**

**VDR polymorphisms and cancer: how is the evidence?**

**Antitumor Effects of Vitamin D Analogs (II): Clinical Studies**

**Promising new vitamin D analogs**

**Actual aspects and results of clinical studies**

**Round Table Discussion**

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

**2.00 p.m. – 6.00 p.m.**

**Biologic Effects of Light**

**I. Benefical Health Effects of Optical Radiation**

**The relevance of the cutaneous vitamin D synthesis for human health – an introduction**

**Impact of solar UV-exposure and vitamin D status for internal malignancies, cardio-vascular mortality, infectious diseases, autoimmune diseases, and bone health: an update**

**Solar UV-exposure, vitamin D and preventive medicine**

**Challenge and promise: balancing between positive and negative effects of UV-radiation**

**Light for Treatment of Cancer and other Diseases:**

**from Bench to Bedside**

**Targeting cancer stem-like cells with photodynamic therapy (PDT)**

**Photochemical internalization (PCI) in cancer therapy**

**Drug delivery and nanotechnology in PDT**

**Drug delivery and nanotechnology in PDT**

**V. Light for Treatment of Cancer and other Diseases:**

**VI. Antimicrobial Effects of Light**

**Relevance of UV-induced immunosuppression for photocarcinogenesis of skin cancer**

**Role of singular lipids in light-tissue interaction**

**Twist in alpha-MSH-mediated protection against UV-radiation**

**How safe is phototherapy?**

**III. Photosensitivity Disorders**

**Photochemistry and degradation of pharmaceuticals**

**Xeroderma pigmentosum, Porphyrias and other Photodermatases updated**

**IV. Round Table Discussion:**

**The UV-Dilemma – is there a solution?**

**Challenge and promise: balancing between positive and negative effects of UV-radiation**

**VII. Round Table Discussion – Concluding remarks**

**Wednesday, June 21, 8.30 a.m. – 5.00 p.m.**

**Vitamin D in Prevention and Therapy**

**I. Molecular Biology of Vitamin D**

**Current understanding of vitamin D receptor function – a genome-wide perspective**

**Alternate receptors and alternate ligand binding pockets: how is the evidence?**

**Vitamin D and calcium signalling new insights in nongenomic actions of 1,25(OH)2D3**

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**Epigenetic modulation of vitamin D signaling pathways**

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

**Expression and function of VDR in cancer:**

**VDR microRNA and beyond**

**The vitamin D endocrine system, senescence and tumor stem cells**

**The vitamin D endocrine system and angiogenesis in cancer**

**VDR/GBP 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**

**VDR polymorphisms and cancer: how is the evidence?**

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

**Molecular basis for antitumor effects of vitamin D and analogs**

**Synthesis and metabolism of vitamin D analogs**

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

**Thursday, June 22, 8.00 a.m. – 1.00 p.m.**

**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?**