

Joint International Symposium

# VITAMIN D

## IN PREVENTION AND THERAPY &

# BIOLOGIC EFFECTS

# OF LIGHT

**MAY 8-10, 2024**

Schlossberg Hotel  
Homburg/Saar, Germany

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**UKS**  
Saarland University  
Medical Center  
and Faculty of Medicine



**Boston University**  
School of Medicine

**BOSTON MEDICAL CENTER**  
EXCEPTIONAL CARE. WITHOUT EXCEPTION.

 **Helios**

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## WELCOME ADDRESS

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Dear Participants, Colleagues and Friends,

on behalf of the scientific committee, it is a pleasure for us to welcome you at our Joint International Symposium entitled *Vitamin D in Prevention and Therapy* and *Biologic Effects of Light*.

In recent years, enormous scientific progress has been made on these closely related topics. Our knowledge about the effects of vitamin D and optical radiation on human health has exploded and the underlying mechanisms are beginning to be unravelled. Results from laboratory and clinical investigations have lead to promising new concepts for the prevention and treatment of cancer and many other diseases. This meeting is specially designed to synergistically offer scientists and clinicians insights into the latest developments in these intriguing research areas.

Plenary and keynote lectures, as well as round table discussions and poster presentations, will give an update on carefully selected “hot topics”, including vitamin D, skin cancer prevention, UVA radiation and cellular homeostasis, photocarcinogenesis, and circadian clock. You are cordially invited to join this meeting.

Thank you for coming to Homburg,  
we wish us a stimulating meeting!



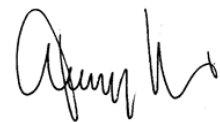
Jörg Reichrath



Michael F. Holick



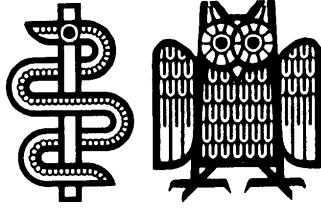
Michael Friedrich



Thomas Vogt

## Wissenschaft *ft* Gesundheit





**Joint International Symposium**

***Vitamin D in Prevention and Therapy***  
**and**  
***Biologic Effects of Light***

Schlossberg-Hotel, Homburg, Germany

May 8-10, 2024

Organized by

**J. Reichrath<sup>1</sup>, M.F. Holick<sup>2</sup>, M. Friedrich<sup>3</sup> and Th. Vogt<sup>1</sup>**

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<sup>2</sup>Dept. of Medicine/Endocrinology, Boston Medical Center, Boston, MA, USA;

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Supported by

Deutsche Forschungsgemeinschaft (DFG)

# CONGRESS INFORMATION

## Organizing Committee

M. Friedrich, Krefeld, Germany; M.F. Holick, Boston, USA; J. Reichrath, Homburg, Germany; Th. Vogt, Homburg, Germany

## Local Organizing Committee

L. Albrecht, L. Arend, A. Dethmers, T. Felix Fernandes, C. Gevaerd, C. Klitz, M. Preiß, J. Reichrath, R. Saternus, Th. Vogt, D. Yüksel, (Homburg/Saar, Germany)

## Scientific Board

M.F. Holick, Boston; M. Preiß, Homburg/Saar; J. Reichrath, Homburg/Saar; Th. Vogt, Homburg/Saar

## Location

The symposium is held at the Schlossberg-Hotel Homburg, Schlossberg-Höhenstraße, 66424 Homburg / Saar, GERMANY, Tel: 0049-(0)6841-6660 - Fax: 0049-(0)-6841-62018 – Email: [info@schlossberghotelhomburg.de](mailto:info@schlossberghotelhomburg.de)

## Congress Office

N. Brengel  
Sekretariat Professor Dr. med. Jörg Reichrath  
Stellvertretender Klinikdirektor / Leitender Oberarzt  
Klinik für Dermatologie, Venerologie und Allergologie  
Universitätsklinikum des Saarlandes und Medizinische Fakultät der  
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## Desks

From Wednesday, May 8, 7.30 AM the congress office with the following desks will be situated during the symposium at the Schlossberg-Hotel Homburg:

Registration/Information/Travel/Sekretariat/Projection

## Conference Language

English

## Presentation

Speakers are requested to turn their Power point presentations over to the projectionist at least 15 minutes before the session begins.

## Social Programme

The organizers invite all speakers and registered participants on Tuesday evening (7.30 PM) to a welcome reception at the Schlossberg hotel.

## Payment

### Registration fee:

Students: 50 Euro for one symposium: Vitamin D **OR** BEOL  
75 Euro for both symposia: Vitamin D **AND** BEOL

Other participants: 250 Euro for one symposium: Vitamin D **OR** BEOL  
350 Euro for both symposia: Vitamin D **AND** BEOL

All fees have to be swift to the following account:

**Name of Bank: Bank1 Saar**

**Account holder: Universität des Saarlandes**

**Bank Code: 591 900 00**

**Account Number: 977 180 08**

**International Bank Code: IBAN DE94591900000097718008**

**BIC: SABADE5S**

**Reference note: E204180116 – Vitamin D + BEOL“**

**(please do not transfer without reference note!)**

We regret that payment by cash or credit card cannot be accepted.

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International Symposium

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

## PROGRAMME

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Wednesday, May 8

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7.30 AM – 7.00 PM      **Registration**

### ***Featured Lectures***

8.00 – 8.10 AM      **Welcome address**  
Dr. Magnus Jung  
Minister des Saarlandes für Arbeit, Frauen und  
Gesundheit

8.10 – 8.15 AM      **Opening remarks**  
Th. Vogt (Homburg), M.F. Holick (Boston),  
M. Friedrich (Krefeld) and J. Reichrath (Homburg)

### **I.      Historic and Future Perspectives of Vitamin D**

**Chair:**      **A.T. Slominski (Birmingham, USA)**  
                 **R. Vieth (Toronto, Canada)**

#### ***Plenary Lecture***

8.15 – 9.00 AM      **M.F. Holick (Boston, USA)**  
THE D-LIGHTFUL VITAMIN D: A 100+ YEARS HISTORICAL  
PERSPECTIVE AND NEW INSIGHTS FOR HUMAN HEALTH  
(Oral presentation (OP) No. 1; Abstract No. 7)

## **II. Molecular Biology of Vitamin D (I) - New Insights in Vitamin D Signaling**

**Chair:** **A.T. Slominski (Birmingham, USA)**  
**R. Vieth (Toronto, Canada)**

9.00 – 9.30 AM **C. Carlberg (Olsztyn, Poland)**  
VITAMIN D SIGNALING IN VIVO: FOCUS ON HUMAN IMMUNE  
CELLS  
(OP No. 2; Abstract No. 3)

9.30 – 10.00 AM **D. Steinhilber (Frankfurt, Germany)**  
VITAMIN D AND INFLAMMATION  
(OP No. 3; Abstract No. 30)

10.00 – 10.45 AM **Coffee Break and Poster View**

## **III. Molecular Biology of Vitamin D (II) – Recent developments in Synthesis, Analysis and Function of Vitamin D Metabolites**

**Chair:** **C. Carlberg (Olsztyn, Poland)**  
**W. März (Graz, Austria)**

### ***Plenary Lecture***

10.45 – 11.30 AM **A.T. Slominski (Birmingham, USA)**  
GENOMIC EFFECTS OF NEW BIOLOGICALLY ACTIVE VITAMIN D  
AND LUMISTEROL METABOLITES: PRESENT CONCEPTS AND  
FUTURE OUTLOOK  
(OP No. 4; Abstract No. 27)

11:30 – 11:50 AM **L. Kattner (Saarbrücken, Germany)**  
SYNTHESIS OF VITAMIN D METABOLITES: WHAT IS NEW?  
(OP No. 5; Abstract No. 10)

11.50 – 0.20 PM            **M.A. Maestro (La Coruna, Spain)**  
VITAMIN D ANALOGS: LESSONS LEARNED FROM A CENTURY OF  
CHEMICAL RESEARCH AND STRUCTURAL INSIGHTS  
(OP No. 6; Abstract No. 16)

0.20 – 0.50 PM            **N. Rochel (Illkirch, Cedex, France)**  
DEVELOPMENT OF SELECTIVE VDR MODULATORS  
(OP No. 7; Abstract No. 23)

0.50 – 2.00 PM            **Lunch Break and Poster View**

#### **IV. Vitamin D Endocrine System in Health and Disease (I)**

**Chair:            D. Steinhilber (Frankfurt, Germany)**  
**M.F. Holick (Boston, USA)**

2.00 – 2.30 PM            **J. Linseisen (München, Germany)**  
VITAMIN D AND RESPIRATORY INFECTIONS  
(OP No. 8; Abstract No. 15)

2.30 – 3.00 PM            **S. Pilz (Graz, Austria)**  
EVIDENCE BASED MEDICINE: HOW IS IT APPLIED IN THE FIELD  
OF VITAMIN D VERSUS COVID-19?  
(OP No. 9; Abstract No. 22)

3.00 – 3.30 PM            **W. März (Graz, Austria)**  
VITAMIN D DEFICIENCY AND CARDIO-VASCULAR  
HEALTH  
(OP No. 10; Abstract No. 17)



3:30 -4:00 PM

**S. Sha (Heidelberg, Germany)**

ABOUT THE ASSOCIATIONS OF VITAMIN D DEFICIENCY AND BIOMARKERS OF SYSTEMIC INFLAMMATORY RESPONSE WITH ALL-CAUSE AND CAUSE-SPECIFIC MORTALITY

(OP No. 11; Abstract No. 26)

4.00 – 4.30 PM

**Coffee Break and Poster View**

## **V. Vitamin D Supplementation in Humans**

**Chair:** **J. Linseisen (München, Germany)**  
**H. Brenner (Heidelberg, Germany)**

### ***Plenary Lecture***

4.30 – 5.15 PM

**R. Vieth (Toronto, Canada)**

HOW TO CONCLUDE THAT HYPERCALCEMIA WAS CAUSED BY VITAMIN D TOXICITY?

(OP No. 12; Abstract No. 32)

5.15 – 5.45 PM

**B. Schöttker (Heidelberg, Germany)**

ASSOCIATION OF 25-HYDROXYVITAMIN D STATUS AND VITAMIN D SUPPLEMENTATION USE WITH MORTALITY DUE TO 18 FREQUENT CANCER TYPES

(OP No. 13; Abstract No. 25)

5.45 – 6:15 PM

**Round Table Discussion including an Interactive Audience Response/Voting System** (chair: M.F. Holick, Boston, USA; R. Vieth, Toronto, Canada; S. Pilz, Graz, Austria)

6.15 – 6.30 PM

**Concluding Remarks:** M.F. Holick, J. Reichrath and Th. Vogt

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Thursday, May 9

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8.00 AM - 6.00 PM      **Registration**

## **VI. Vitamin D Endocrine System in Health and Disease (II)**

**Chair:**            **S. Pilz (Graz, Austria)**  
                         **H.C. Wulf (Copenhagen, Denmark)**

### ***Plenary Lecture***

- 8.00 – 8.45 AM            **M.F. Holick (Boston, USA)**  
WHAT IS THE OPTIMAL VITAMIN D STATUS FOR SKELETAL AND  
NONSKELETAL HEALTH OUTCOMES?  
(OP No. 14; Abstract No. 8)
- 8.45 – 9.15 AM            **H. Brenner (Heidelberg, Germany)**  
RANDOMIZED TRIALS ON THE EFFECTS OF VITAMIN D  
SUPPLEMENTATION ON MORTALITY AND CARDIOVASCULAR  
EVENT OUTCOMES: META-ANALYSIS ACCORDING TO KEY  
DESIGN FEATURES  
(OP No. 15; Abstract No. 2)
- 9.15 – 9.45 AM            **J. Bittenbring (Homburg, Germany)**  
VITAMIN D AND CANCER: AN UPDATE  
(OP No. 16; Abstract No. 1)
- 9.45 – 10.00 AM            **M. Schömann-Finck (Saarbrücken, Germany)**  
UMBRELLA REVIEW ON BREAST, COLORECTAL, PANCREATIC,  
LUNG CANCER INCIDENCE AND MORTALITY AND VITAMIN D  
(OP No. 17; Abstract No. 24)

10.00 – 10.15 AM      **T. Gwenzi (Heidelberg, Germany)**  
EFFECTS OF VITAMIN D SUPPLEMENTATION ON  
INFLAMMATORY RESPONSE IN PATIENTS WITH CANCER  
AND PRECANCEROUS LESIONS: SYSTEMATIC REVIEW  
AND META-ANALYSIS OF RANDOMIZED TRIALS  
(OP No. 18; Abstract No. 6)

10:15 – 10:45 AM      **Coffee Break and Poster View**

## **VII. Vitamin D Status in Humans: What is optimal?**

**Chair:**            **J. Linseisen (München, Germany)**  
                         **H. Brenner (Heidelberg, Germany)**

10.45 – 11.15 AM      **S. Zelzer (Graz, Austria)**  
FUNCTIONAL ASSESSMENT OF VITAMIN D STATUS BY A NOVEL  
METABOLIC APPROACH: THE LOW VITAMIN D PROFILE  
CONCEPT  
(OP No. 19; Abstract No. 37)

11.15 – 11.30 AM      **P.G. Lindqvist (Stockholm, Sweden)**  
VITAMIN D AND STILLBIRTH  
(OP No. 20; Abstract No. 13)

11.30 -12.00 AM:      **S. Pilz (Graz, Austria)**  
GUIDELINES FOR PREVENTING AND TREATING VITAMIN D  
DEFICIENCY: AN UPDATE  
(OP No. 21; Abstract No. 21)

0.00 – 0.30 PM

**Round Table Discussion using an Audience Response/Voting System (chair: M.F. Holick, Boston, USA; A.T. Slominski, Birmingham, USA)**

WHAT IS THE OPTIMAL VITAMIN D STATUS FOR GLOBAL HEALTH?

0.30 – 0.40 PM

**Concluding Remarks:** M.F. Holick, J. Reichrath and Th. Vogt

0.40 – 2.00 PM

**Lunch Break and Poster View**

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International Symposium

# ***Biologic Effects of Light***

## PROGRAMME

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Thursday, May 9

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### **I. Solar Radiation and Health (I)**

**Chair:** Th. Vogt (Homburg, Germany),  
M.F. Holick (Boston, USA)

#### ***Plenary Lecture***

2.00 – 2.30 PM

**A.T. Slominski (Birmingham, USA)**

NEW PERSPECTIVES ON THE ROLE OF NOVEL  
SECOSTEROIDS IN UV RADIATION INDUCED SKIN  
CANCERS

(OP No. 22; Abstract No. 28)

2.30 – 2.50 PM

**F. Götzinger (Homburg, Germany)**

PHOTOSENSITIVITY OF ANTI-HYPERTENSION  
MEDICATION AND SKIN CANCER: HOW STRONG IS THE  
EVIDENCE?

(OP No. 23; Abstract No. 5)

- 2.50 -3.20 PM                    **P.A. Philipsen (Copenhagen, Denmark)**  
NEW ACTION SPECTRA FOR VITAMIN D FORMATION  
AND DNA DAMAGE IN HUMAN SKIN FOR RISK-BENEFIT  
ESTIMATION  
(OP No. 24: Abstract No. 19)
- 3.20 – 3.45 PM                    **H.C. Wulf (Copenhagen, Denmark)**  
SUN EXPOSURE AND SUN PROTECTION  
(OP No. 25; Abstract No. 34)
- 3.45 – 4.15 PM                    **Round table discussion (chair: R. Vieth, Toronto,  
Canada; P. Lindqvist, Stockholm, Sweden)**  
  
HOW TO GIVE THE GENERAL PUBLIC SIMPLE; USEFUL  
ADVICE ABOUT SUN EXPOSURE; TO MAXIMIZE THE  
BENEFITS AND MINIMIZE THE RISKS  
(OP No. 26, Abstract No. 33)
- 4.15 – 5.00 PM                    **Coffee Break and Poster View**

## II. Solar Radiation and Health (II)

**Chair:** **N. Neumann (Düsseldorf, Germany),  
P.A. Philipsen (Copenhagen, Denmark)**

5.00 – 5.30 PM **P.G. Lindqvist (Stockholm, Sweden)**  
SUN EXPOSURE AND TYPE 2 DIABETES, AN ENLIGHTENED PATH  
TOWARDS CAUSALITY  
(OP No. 27; Abstract No. 14)

5.30 – 6.00 PM **C. M. Lerche (Copenhagen, Denmark)**  
QUANTIFYING ULTRAVIOLET RADIATION EXPOSURE IN DANISH  
CHILDREN ATTENDING KINDERGARTEN  
(OP No. 28; Abstract No. 11)

6.00 – 6.30 PM **Round Table Discussion including an Interactive  
Audience Response/Voting System (chair: M.F.  
Holick, Boston, USA; A.T. Slominski, Birmingham,  
USA)** Solar radiation in prevention and therapy –  
challenge and promise

6.30 – 6.40 PM **Concluding Remarks:** M.F. Holick, J. Reichrath  
and Th. Vogt

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Friday, May 10

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8.00 AM - 4.30 PM      **Registration**

### **III.      Solar Radiation and Health (III)**

**Chair:**      **P.A. Philipsen (Copenhagen, Denmark)**  
                 **A. Tanew (Vienna, Austria)**

#### ***Plenary Lecture***

8.15 – 9.00 AM	<b>R. Slominski (Birmingham, USA)</b> REGULATION OF THE CENTRAL NEUROENDOCRINE AND IMMUNE SYSTEM BY ULTRAVIOLET RADIATION: IMPLICATIONS FOR THE REGULATION OF BODY HOMEOSTASIS (OP No. 29; Abstract No. 29)
9:00 – 9.30 AM	<b>N.J. Neumann (Düsseldorf, Germany)</b> MANAGEMENT OF PHOTODERMATOSES (OP No. 30; Abstract No. 18)
9.30 -9.45 AM	<b>H.C. Wulf (Copenhagen, Denmark)</b> SIMPLIFYING TECHNOLOGIES FOR PHOTOTESTING (OP No. 31; Abstract No. 35)
9.45 – 10.30 AM	<b>Coffee Break and Poster View</b>



#### **IV. UV-Radiation and Cancer**

**Chair: H.C. Wulf (Copenhagen, Denmark)  
T. Vogt (Homburg, Germany)**

**10.30 – 11.15 AM C.M. Lerche (Copenhagen, Denmark)**  
UV-INDUCED SKIN CANCER: NEW INSIGHTS FROM ANIMAL  
MODELS AND HUMAN STUDIES  
(OP No. 32; Abstract No. 12)

**11.15– 11.45 AM G. Delinasios (Kapandriti, Greece)**  
UV-INDUCED „DARK“ CYCLOBUTANE PYRIMIDINE  
DIMERS: PERSPECTIVES ON FORMATION, MECHANISMS  
AND PHOTOPROTECTION  
(OP No. 33; Abstract No. 4)

**11.45-12.15 AM P.A. Philipsen (Copenhagen, Denmark)**  
DETECTION OF CUTANEOUS MALIGNANT MELANOMA USING  
TAPE STRIP-DERIVED RNA  
(OP No. 34; Abstract No. 20)

**0.15 – 1.30 PM Lunch Break and Poster View**

## **V. Arnold Rikli Price Award**

- 1.30 – 1.45 PM            **Laudatio and Price Ceremony**  
**J. Reichrath (Homburg, Germany),**  
**A. Wolff (Jörg Wolff Foundation, Stuttgart,**  
**Germany)**
- 1.45 – 2.15 PM            **Arnold Rikli Price Lecture**  
**M. Meinke (Berlin, Germany)**  
EFFECTS OF FAR UV-C ON MICROBES, MUCOSA,  
WOUNDS AND SKIN EX VIVO AND ON SKIN OF  
VOLUNTEERS

## **VI. Optical Radiation and Health**

**Chair:**            **R. Vieth (Toronto, Canada)**  
**N. J. Neumann (Düsseldorf, Germany)**

### ***Plenary Lecture***

- 2.15 – 3.00 PM            **M.F. Holick (Boston, USA)**  
STANDARD OF CARE AND NOVEL APPROACHES FOR TREATING  
AND PREVENTING VITAMIN D DEFICIENCY: SUNLIGHT,  
SUPPLEMENTS AND A METABOLITE  
(OP No. 35; Abstract No. 9)
- 3.00 - 3.15 PM            **H.C. Wulf (Copenhagen, Denmark)**  
PHOTODYNAMIC THERAPY WITHOUT SIDE EFFECTS  
(OP No. 36; Abstract No. 36)

3.15 – 3.45 PM

**A. Tanew (Vienna, Austria)**

CURRENT STATUS OF UV-BASED PHOTOTHERAPIES IN THE  
MANAGEMENT OF SKIN DISEASES – THE TIMES THEY ARE A  
CHANGING

(OP No. 37; Abstract No. 31)

3.45 – 4.15 PM

**Round Table Discussion including an Interactive Au-  
dience Response/Voting System (chair: M.F. Holick,  
Boston, USA; H.C. Wulf, Copenhagen, Denmark; J.  
Reichrath, Homburg, Germany)**

Optical Radiation in Prevention and Therapy – Pre-  
sent Concepts and Future Outlook

4.15 – 4.30 PM

**Concluding Remarks:** M.F. Holick (Boston, USA),  
J. Reichrath (Homburg, Germany) and Th. Vogt (Hom-  
burg, Germany)

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