

Joint International Symposium

VITAMIN D

IN PREVENTION AND THERAPY & BIOLOGIC EFFECTS OF LIGHT

MAY 4-6, 2022

Schlossberg Hotel
Homburg/Saar, Germany

For more information visit:
www.vitamin-d-effects-of-light.com

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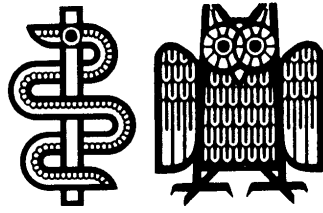
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UKS
Saarland University
Medical Center
and Faculty of Medicine





Joint International Symposium

Vitamin D in Prevention and Therapy

and

Biologic Effects of Light

Organized by

J. Reichrath¹, M.F. Holick², M. Friedrich³ and Th. Vogt¹

May 04-06, 2022

¹Dept. of Dermatology, Venerology and Allergology,
The Saarland University Hospital, Homburg/Saar, Germany;

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and

³Dept. of Gynecology, Helios Clinic Krefeld, Krefeld, Germany.

FINAL PROGRAMME

Organizing Committee

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

Local Organizing Committee

T. Felix Fernandes, Homburg/Saar
M. Preiß, Homburg/Saar
J. Reichrath, Homburg/Saar
R. Saternus, Homburg/Saar
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Scientific Board

M. Preiß, Homburg/Saar
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Supported by

Deutsche Forschungsgemeinschaft (DFG)

WELCOME ADDRESS

Dear participants, colleagues and friends!

The Corona pandemic had a great impact for science during the last years, causing the cancellation of many meetings. On behalf of the scientific committee, it is therefore a great pleasure to welcome you here in Homburg as our guests on the occasion of our next Joint International Symposia entitled *Vitamin D in Prevention and Therapy* and *Biologic Effects of Light*.

Since 2019, when our last symposia on these closely related topics were held, our knowledge about the effects of vitamin D and optical radiation on human health has enormously increased. Scientific progress has resulted in promising new concepts that have a strong impact both for preventive medicine and for the treatment of many diseases. This meeting is specially designed to synergistically offer scientists and clinicians insights into the latest developments in these intriguing research areas, both basic and clinical. Plenary and Keynote lectures, as well as interactive Round Table Discussions, will give an update on carefully selected "hot topics", including *Vitamin D and personalized medicine*, *Vitamin D food fortification: Time to act?*, *AhR, ROR and LXR: New signaling pathways for non-classical vitamin D derivatives*, *Sunlight, vitamin D and skin cancer: how much sun is good for us?* and *Solar and artificial UV-radiation: new concepts for prevention and therapy*.

We hope you will enjoy this meeting as well as the social programme, and wish you a pleasant stay.



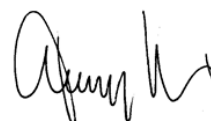
Jörg Reichrath



Michael F. Holick



Michael Friedrich



Thomas Vogt

Conference Language

English

Presentation

Speakers are requested to turn over their presentations (power point) 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. For accompanying persons, tickets for welcome reception (30 EURO/person) can be purchased Tuesday evening on site.

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

Please transfer the registration fee to the following account:

| | |
|------------------------------|-------------------------------|
| Name of Bank: | Sparkasse Saarbrücken |
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*Vitamin D in
Prevention and Therapy*

-FINAL PROGRAMME-

Wednesday, May 4

7.30 AM - 6.00 PM Registration

Featured Lectures

8.00 - 8.10 AM Welcome address
M. Menger (Dean of the Medical Faculty, Saarland University Homburg,
Germany)

8.10 - 8.15 AM Opening remarks
Th. Vogt (Homburg, Germany), M.F Holick (Boston, USA), and J. Reichrath
(Homburg, Germany)

I. Keynote Lecture

Chair: A.T. Slominski (Birmingham, USA)
C. Carlberg (Kuopio Finland)

8.15 - 8.45 AM M.F. Holick (Boston, USA)
Vitamin D for Human Health: History is repeating itself
(No abstract published)

II. Vitamin D and Personalized Medicine: Promises and Pitfalls (I)

| | |
|------------------|--|
| Chair: | A.T. Slominski (Birmingham, USA) C. Carlberg (Kuopio, Finland) |
| 8.45 - 9.00 AM | A.T. Slominski (Birmingham, USA) C. Carlberg (Kuopio, Finland) <i>Personalized medicine for optimizing human health with vitamin D: An introduction and interactive discussion with the audience using a voting system</i> |
| 9.00 - 9.30 AM | C. Carlberg (Kuopio, Finland) <i>Personalized vitamin D Signaling</i> (Abstract No. 61) |
| 9.30 – 9.45 AM | L. Kattner (Saarbrücken, Germany) <i>Synthesis of ¹³C-labelled vitamin D metabolites for their use in LC-MS/MS applications</i> (Abstract No. 20) |
| 9.45 - 10.00 AM | B. Schöttker (Heidelberg, Germany) <i>Efficacy and safety of a personalized vitamin D₃ loading dose followed by 2,000 IU per day to raise serum 25-hydroxyvitamin D in colorectal cancer patients with vitamin D insufficiency. Interim analysis of a RCT</i> (Abstract No. 36) |
| 10.00 - 10.15 AM | J.T. Bittenbring (Homburg, Germany) <i>How to rapidly substitute vitamin D in patients with diffuse large-B-cell lymphoma</i> (Abstract No. 4) |
| 10.15 – 10.45 AM | Coffee Break, Industrial Exhibition and Poster View |

III. Vitamin D and Personalized Medicine: Promises and Pitfalls (II)

| | |
|------------------|--|
| Chair: | A. Zittermann (Bad Oeynhausen, Germany) H. Brenner (Heidelberg, Germany) |
| 10.45 - 11.00 AM | S. Zelzer (Graz, Austria) <i>Mass spectrometric determination of vitamin D metabolites in serum, a convenient tool to identify individuals with 24-hydroxylase deficiency.</i> (Abstract No. 46) |
| 11.00 - 11.30 AM | A.T. Slominski (Birmingham, USA) <i>Alternative nuclear receptors for vitamin D hydroxyderivatives</i> (Abstract No. 37) |
| 11.30 - 12.00 AM | Interactive round table discussion with the audience using a voting system <i>Personalized medicine and vitamin D: where are we standing and where will we be going?</i> (chair: A.T. Slominski (Birmingham, USA), W. März (Mannheim, Germany); podium: M. F. Holick (Boston, USA), H. Brenner (Heidelberg, Germany), S. Gandini (Milan, Italy), C. Carlberg (Kuopio, Finland), A. Zittermann (Bad Oeynhausen, Germany), H.C. Wulf (Copenhagen, Denmark). |

IV. Molecular Biology of Vitamin D

Chair: N. Rochel (Illkirch, France)
M.A. Maestro (La Coruna, Spain)

12.00 - 12.15 PM N. Rochel (Illkirch, France)
Novel structural aspects of vitamin D signaling and function of VDR
(Abstract No. 34)

12.15 - 12.30 PM R. Bernhardt (Saarbrücken, Germany)
Functional and structural characterization of cholesterol-, vitamin D₂- and D₃-hydroxylases from BACILLUS MEGATERIUM
(Abstract No. 3)

12.30 - 12.45 PM M.A. Maestro (La Coruna, Spain)
Developments towards synthesis of labeled vitamin D metabolites
(Abstract No. 26)

12.45 - 1.00 PM A. Hanel, (Kuopio, Finland)
Gene-regulatory potential of 25-hydroxyvitamin D₃ and D₂
A. Hanel, Kuopio, Finland.
(Abstract No. 60)

1.00 - 1.15 PM D. Steinhilber (Frankfurt, Germany)
Vitamin D and immune response: 1,25(OH)₂D₃ regulates host defense-relevant genes by transcript initiation and elongation
(Abstract No. 40)

1.15 – 2.30 PM Lunch Break, Industrial Exhibition and Poster View

V. Vitamin D in Prevention and Therapy (I)

| | |
|----------------|---|
| Chair: | A.R. Webb (Manchester, UK) A. Young (London, UK) |
| 2.30 - 3.00 PM | A. Zittermann (Bad Oeynhausen, Germany) <i>The impact of vitamin D on cardiovascular disease, and beyond</i> (Abstract No. 48) |
| 3.00 - 3.15 PM | C. Diaconu (Bucharest, Romania) <i>Vitamin D and the heart: controversies still exist</i> (Abstract No. 8) |
| 3.15 - 3.30 PM | R. Mahtani (Pune, India) <i>Daily oral vitamin D₃ in the management of psoriasis: A case series.</i> (Abstract No. 27) |
| 3.30 - 3.45 PM | M.O.W. Grimm (Homburg, Germany) <i>Impact of vitamin D in Alzheimer's disease</i> (Abstract No. 19) |
| 3.45 - 4.15 PM | M.F. Holick (Boston, USA) <i>A new insight as to how vitamin D can help reduce morbidity and mortality in covid-19 patients</i> (Abstract No. 18) |
| 4.15 - 4.45 PM | S. Raimondi (Milan, Italy) <i>Vitamin D supplementation may improve covid-19 prognosis? Evidence from a systematic review and meta-analysis.</i> (Abstract No. 9) |

4.45 – 5.15 PM Coffee Break, Industrial Exhibition and Poster view

VI. Vitamin D in Health and Disease

Chair: H.C. Wulf (Copenhagen, Denmark)
 A. Zittermann (Bad Oeynhausen, Germany)

5.15 – 5.30 PM A. Zhu (Heidelberg, Germany)
Vitamin D binding protein, total, „non-bioavailable“, bioavailable, and free 25-hydroxyvitamin D, and mortality in a large population-based cohort of older adults
(Abstract No. 47)

5.30 – 5.45 PM I.M. Heerfordt (Copenhagen, Denmark)
Vitamin D status in individuals with erythropoietic protoporphyria
(Abstract No. 15, Presentation via ZOOM)

5.45 – 6.15 PM A.R. Webb (Manchester, UK)
Exploring enhancement of dietary vitamin D in climates where cutaneous synthesis is seasonally restricted
(Abstract No. 42)

6.15 – 6.45 PM A.R. Young (London, UK)
A revised action spectrum for vitamin D synthesis by sub-erythral UV radiation exposure in humans in vivo
(Abstract No. 45)

6.45 – 6.50 PM Closing Remarks
J. Reichrath (Homburg), Th. Vogt (Homburg) and M.F. Holick
(Boston, USA)

Thursday, May 5

8.00 AM - 2.00 PM Registration

VII. Vitamin D in Prevention and Therapy of Skin Cancer

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

8.00 - 8.30 AM A.T. Slominski (Birmingham, USA)
CYP11A1-derived vitamin D hydroxyderivatives as therapeutics against skin cancer
(Abstract No. 38)

8.30 - 8.50 AM F.R. de Gruijl (Leiden, The Netherlands)
Impacts of UV and vitamin D on skin cancer: mouse experiments
(Abstract No. 7)

8.50 - 9.00 AM J. Reichrath (Homburg, Germany)
Low vitamin D status is associated with poor clinical outcome in advanced melanoma treated with immune checkpoint or BRAF/MEK-inhibitors: results from a pilot study
(Abstract No. 32)

Keynote Lecture

9.00 - 9.30 AM M.F. Holick (Boston, USA)
The future of vitamin D: Novel therapeutic approaches for healthy, obese and malabsorption in the era of covid-19
(Abstract No. 17)

9.30 - 10.00 AM Coffee Break, Industrial Exhibition and Poster View

VIII. Vitamin D Supplementation, Food Fortification: Time to act?

Chair: M.F. Holick (Boston, USA)
 H. Brenner (Heidelberg, Germany)

10.00 - 10.30 AM M.F. Holick (Boston, USA), H. Brenner (Heidelberg, Germany)
An introduction to vitamin D supplementation, food fortification and interactive discussion with the audience using a voting system

10.30 - 10.50 AM W. März (Mannheim, Germany)
Vitamin D food fortification: Time to act
(Abstract No. 25)

10.50 - 11.10 AM S. Kuznia (Heidelberg, Germany)
Efficacy of vitamin D₃ supplementation on cancer mortality in the general population and the prognosis of patients with cancer: A systematic review and individual patient data meta-analysis of randomized controlled trials
(Abstract No. 21)

11.10 - 11.30 AM F. Bellerba (Milan, Italy)
Colorectal cancer, vitamin D and microbiota: a double-blind phase II randomized trial in colorectal cancer patients.
(Abstract No. 2)

11.30 - 11.50 AM S. Sha (Heidelberg, Germany)
Real-world evidence for the effectiveness of vitamin D supplementation in the reduction of total and cause-specific mortality. Results from almost half a million participants of the UK Biobank cohort study
(Abstract No. 35)

| | |
|------------------|--|
| 11.50 - 12.10 AM | <p>R. Vieth (Toronto, Canada)</p> <p><i>Since 2.5% percent of the population has hypercalcemia, how to know when it is due to vitamin D toxicity?</i></p> <p>(Abstract No. 64, Presentation via ZOOM)</p> |
| 12.10 – 12.40 PM | <p>H. Brenner (Heidelberg, Germany)</p> <p><i>Potential of vitamin D supplementation or vitamin D food fortification for preventing cancer death in Germany</i></p> <p>(Abstract No. 5)</p> |
| 12.40 - 1.15 PM | <p>Interactive round table discussion with the audience using a voting system</p> <p><i>Vitamin D supplementation, Food Fortification: Time to act?</i></p> <p>(chair: Hermann Brenner (Heidelberg, Germany) and Winfried März (Mannheim, Germany); podium: M. F. Holick (Boston, USA), A.T. Slominski (Birmingham, USA), S. Gandini (Milan, Italy), A. Zittermann (Bad Oeynhausen, Germany), A. Young (London, UK), C. Carlberg (Kuopio, Finland, R. Vieth (Toronto, Canada, via ZOOM))</p> |
| 1.15 - 1.30 PM | <p>Closing Remarks</p> <p>J. Reichrath (Homburg, Germany), Th. Vogt (Homburg, Germany) and M.F. Holick (Boston, USA)</p> |
| 1.30 - 3.00 PM | <p>Lunch break, Industrial Exhibition and Poster View</p> |

Biologic Effects of Light

-FINAL PROGRAMME-

2.00 – 6.00 PM Registration

Featured Lectures

3.00 - 3.30 PM Opening remarks and interactive round table discussion with the audience using a voting system

M.F. Holick (Boston, USA), Th. Vogt (Homburg, Germany) and
J. Reichrath (Homburg, Germany)

An introduction to optical radiation and human health

I. Keynote Lectures

Chair: P.G. Lindqvist (Stockholm, Sweden)
 H.C. Wulf (Copenhagen, Denmark)

3.30 - 4.15 PM D.-P. Häder (Erlangen, Germany)
Photosynthesis in plants and algae
(Abstract No. 14)

4.15 - 4.45 PM W.B. Grant (San Francisco, USA)
A narrative review of observational studies of personal UVB exposure and risk of cancer
(Abstract No. 13, Presentation via ZOOM)

II. Optical radiation and malignant melanoma: what is the evidence?

Chair: M.F. Holick (Boston, USA)
J. Reichrath (Homburg, Germany)

4.45 - 5.15 PM F.R. de Gruijl (Leiden, The Netherlands)
Cutaneous melanoma: sheep in wolves clothing?
(Abstract No. 6)

5.15 - 5.45 PM Coffee Break, Industrial Exhibition and Poster View

5.45 - 6.15 PM S. Gandini (Milan, Italy)
Assessing the applicability of criteria for causality to solarium use and malignant melanoma (MM)
(Abstract No. 62)

6.15 - 6.45 PM J. Reichrath (Homburg, Germany)
Melanoma risk and solarium use: still many open questions, not the time to close the debate
(Abstract No. 31)

6.45 - 7.15 PM Interactive round table discussion with an expert podium and the audience using a voting system
Optical radiation and human health: challenge and promise
(chair: J. Reichrath (Homburg, Germany, FR de Gruijl (Leiden, The Netherlands); podium:, A.T. Slominski (Birmingham, USA), S. Gandini (Milan, Italy), H.C. Wulf (Copenhagen, Denmark), A. Tanew (Vienna, Austria), P.A. Philipsen (Copenhagen, Denmark), A. Young (London, UK)

7.15 - 7.20 PM Closing Remarks
J. Reichrath (Homburg, Germany), Th. Vogt (Homburg, Germany) and M.F. Holick (Boston, USA)

Friday, May 6

7.30 AM – 6.00 PM Registration

Featured Lectures

III. Optical Radiation and Human Health (I)

Chair: J. Reichrath (Homburg, Germany)
 M.F. Holick (Boston, USA)

8.00 - 8.15 AM J. Reichrath (Homburg, Germany)
 M.F. Holick (Boston, USA)

 An introduction to effects of optical radiation on human health

Keynote Lecture

8.15 - 8.45 AM A.T. Slominski (Birmingham, USA)

 *On the ultraviolet B (UVB) regulation of the cutaneous and systemic
immune system*

 (Abstract No. 39)

8.45 - 9.15 AM U. Albrecht (Fribourg, Switzerland)

 Light, the circadian clock and behavioural despair

 (Abstract No. 1)

9.15 - 9.45 AM W.B. Grant (San Francisco, USA)

 Solar radiation factors that affect the seasonality of diseases

 (Abstract No. 12; Presentation via ZOOM)

9.45 - 10.15 PM P.G. Lindqvist (Stockholm, Sweden)
Sun exposure – Hazards and benefits
(Abstract No. 23)

10.15 - 10.45 AM Coffee Break, Industrial Exhibition and Poster View

IV. Arnold Rikli Price Award

10.45 - 11.00 AM Laudatio and Price Ceremony
J. Reichrath (Homburg, Germany)
A. Wolff (Jörg Wolff Foundation, Stuttgart, Germany)

11.00 - 11.30 AM Arnold Rikli Price Lecture
F. Gruber (Vienna, Austria)
*Light on the Epi-lipidome of the Skin - Oxidized Phospholipids as
Messengers of Stress and Aging*
(No abstract published)

V. UV-Radiation and Skin Cancer

Chair: P.A. Philipsen (Copenhagen, Denmark)
R. Saternus (Homburg, Germany)

11.30 - 11.50 AM M.C. Martens (Rostock, Germany)
*Molecular pathology and clinical management of xeroderma
pigmentosum – an update*
(Abstract No. 28)

11.50 - 12.10 AM C.M. Lerche (Copenhagen, Denmark)
Quantifying urinary thymine dimers based on LC-MS/MS
(Abstract No. 22)

- 12.10 - 12.25 PM F. Götzinger (Homburg, Germany)
Hydrochlorothiazide did not lead to phototoxic reactions and DNA damage in healthy volunteers – the „HCTox-study“
 (Abstract No. 11)
- 12.25 - 12.40 PM C. Pihl (Copenhagen, Denmark)
Nicotinamide and phytochemicals phloroglucinol and syringic acid delay UVR-induced squamous cell carcinoma onset in hairless mice
 (Abstract No. 29)
- 12.40 - 1.00 PM P.A. Philipsen (Copenhagen, Denmark)
High oral vitamin D intake does not protect against UV-induced squamous carcinoma in hairless mice
 (Abstract No. 24)
- 1.00 - 2.30 PM Lunch Break, Industrial Exhibition and Poster View

VI. Optical Radiation and Human Health (II)

Chair: N.J. Neumann (Düsseldorf, Germany)
 A. Tanew (Vienna, Austria)

- 2.30 - 3.00 PM A. Tanew (Vienna, Austria)
Ultraviolet phototherapy of skin diseases – what's vitamin D got to do with it?
 (Abstract No. 41)

- 3.00 - 3.30 PM N.J. Neumann (Düsseldorf, Germany)
Phototoxic skin reactions: an update
 (Abstract No. 10)
- 3.30 - 4.00 PM H.C. Wulf (Copenhagen, Denmark)
Removal of side effects in photodynamic therapy of actinic keratoses
 (Abstract No. 44)
- 4.00 - 4.15 PM J. Rehner (Homburg, Germany)
Modulation of the skin microbiota by optical radiation
 (Abstract No. 30)
- 4.15 - 4.45 PM Coffee Break, Industrial Exhibition and Poster View

VII. Optical Radiation and Human Health (II)

Chair: P.G. Lindqvist (Stockholm, Sweden)
 H.C. Wulf (Copenhagen, Denmark)

- 4.45 - 5.15 PM H.C. Wulf (Copenhagen, Denmark)
Simple procedure to determine the minimal erythema dose (MED)
 (Abstract No. 43)
- 5.15 - 5.30 PM J. Reichrath (Homburg, Germany)
Potential harmful effects associated with the use of sunscreens to prevent skin cancer – the good, the bad and the ugly of sun protection
 (Abstract No. 33)

Keynote Lecture

| | |
|----------------|---|
| 5.30 - 6.00 PM | M.F. Holick (Boston, USA) <i>Sunlight, vitamin D and the covid-19 dilemma: History repeating itself</i> (Abstract No. 16) |
| 6.00 - 6.15 PM | Closing Remarks: J. Reichrath (Homburg, Germany), Th. Vogt (Homburg, Germany) and M.F Holick (Boston, USA) |

Posters

P No 1

CROSS TALK OF ARYL-HYDROCARBON-RECEPTOR (AHR) - AND VITAMIN D RECEPTOR (VDR) - SIGNALING IN HUMAN KERATINOCYTES

Christoforos Christofi, Alexandra Stark, Heike Palm, Thomas Vogt and Jörg Reichrath

Department of Dermatology, Venereology, Allergology, University Hospital Saarland, Saarland University, Homburg, Germany

(Abstract No. 49)

P No. 2

REGULATION OF CIRCADIAN CLOCK GENES BY UVB RADIATION AND VITAMIN D: A PILOT STUDY IN HUMAN EPIDERMAL KERATINOCYTES DURING DIFFERENT STAGES OF SKIN PHOTOCARCINOGENESIS

Leandros Lamnis, Alexandra Stark, Heike Palm, Thomas Vogt and Jörg Reichrath

Department of Dermatology, Venereology, Allergology, University Hospital Saarland, Saarland University, Homburg, Germany

(Abstract No. 50)

P No. 3

LINK BETWEEN VITAMIN D METABOLISM AND ALZHEIMER'S DISEASE-RELATED PROCESSES

Anna Lauer and Marcus O.W. Grimm

Experimental Neurology, Saarland University, Homburg (Saar), Germany

(Abstract No. 51)

P No. 4

DETECTION OF VITAMIN D HYDROXYDERIVATIVES IN THE BLOOD OF HEALTHY VOLUNTEERS FOLLOWING UVB NARROW-BAND PHOTOTHERAPY: A PILOT STUDY

Roman Saternus, Sandra Reichrath, Thomas Vogt and Jörg Reichrath

Center for Clinical and Experimental Photodermatology and Clinic for Dermatology, Allergology and Venerology, Saarland University, Homburg/Saar, Germany

(Abstract No. 52)

P No. 5

VITAMIN D STATUS AND ALOPECIA AREATA (AA) - A META-ANALYSIS

Anna Maier¹, Jakob Schöpe², Stefan Wagenpfeil², Thomas Vogt¹ and Jörg Reichrath¹

¹Center for Clinical and Experimental Photodermatology and ²Clinic for Dermatology, Allergology and Venerology, Saarland University, Homburg/Saar, Germany

(Abstract No. 53)

P No. 6

META-ANALYSIS AND SYSTEMATIC REVIEW OF THE ASSOCIATION BETWEEN SINGLE NUCLEOTIDE POLYMORPHISMS (SNPs) OF THE VITAMIN D RECEPTOR GENE AND RISK FOR MALIGNANT MELANOMA (MM)

Michelle Birke¹, Jakob Schöpe², Stefan Wagenpfeil², Thomas Vogt¹ and Jörg Reichrath¹

¹Center for Clinical and Experimental Photodermatology and Clinic for Dermatology, Allergology and Venerology, Saarland University, Homburg/Saar, Germany

(Abstract No. 54)

P No. 7

DISTRIBUTION AND DETERMINANTS OF VITAMIN D-BINDING PROTEIN, TOTAL, "NON-BIOAVAILABLE" BIOAVAILABLE, AND FREE 25-HYDROXYVITAMIN D CONCENTRATIONS IN A LARGE POPULATION-BASED COHORT OF OLDER ADULTS

Anna Zhu^{1,2}, Sabine Kuznia^{1,2}, Tobias Niedermaier¹, Bernd Holleczek³, Ben Schöttker^{1,4} and Hermann Brenner^{1,4,5,6}

¹Division of Clinical Epidemiology and Aging Research, German Cancer Research Center (DKFZ), Heidelberg, Germany;

²Medical Faculty Heidelberg, Heidelberg University, Heidelberg, Germany;

³Saarland Cancer Registry, Saarbrücken, Germany;

⁴Network Aging Research, Heidelberg University, Heidelberg, Germany;

⁵Division of Preventive Oncology, German Cancer Research Center (DKFZ) and National Center for Tumor Diseases (NCT), Heidelberg, Germany;

⁶German Cancer Consortium (DKTK), German Cancer Research Center (DKFZ), Heidelberg, Germany

(Abstract No. 55)

P No. 8

SUNSCREEN USE FOR PREVENTION OF SKIN CANCER: ONLY BENEFITS OR IS THERE A RISK OF HARMFUL EFFECTS?

Jörg Reichrath¹, Tiago Felix-Fernandes¹, Jakob Schöpe², Stefan Wagenpfeil², Roman Saternus¹ and Thomas Vogt¹

¹Department of Dermatology, The Saarland University Hospital, Homburg, Germany;

²Institute for Medical Biometry, Epidemiology and Medical Informatics, Saarland University, Campus Homburg, Germany

(Abstract No. 56)

P No. 9

SUNBEDS AND MELANOMA RISK: WHAT IS THE EVIDENCE?

Jörg Reichrath¹

¹Center for Clinical and Experimental Photodermatology and Clinic for Dermatology, Allergology and Venerology, Saarland University, Homburg/Saar, Germany

(Abstract No. 57)

P No 10

IMPACT OF SINGLE NUCLEOTIDE POLYMORPHISMS [SNPs] OF GENES INVOLVED IN SKIN PIGMENTATION FOR VITAMIN D STATUS: WHAT CAN WE LEARN FROM EVOLUTION?

Roman Saternus¹, Marcus Kleber², Winfried März², Thomas Vogt¹, Jörg Reichrath¹

¹Center for Clinical and Experimental Photodermatology, Clinic for Dermatology, Venerology and Allergology, The Saarland University Hospital, Homburg, Germany;

²Mannheim Institute of Public Health (M.K., W.M.), Heidelberg University, Mannheim, Germany

(Abstract No. 58)

Po No. 11

PROMISCUOUS LIAISONS: DISRUPTED P53 -, NOTCH - AND VITAMIN D – PATHWAYS CONTRIBUTE TO EVASION OF ANTI-GROWTH SIGNALING DURING CUTANEOUS PHOTOCARCINOGENESIS

Marie-Madeleine Preiß¹, Kristina Heyne^{1,2}, Nicole Ludwig³, Carsten Kummerow⁴, Anna M. Marthaler⁵, Alexandra Stark¹, Klaus Roemer², Markus Hoth², Eckart Meese³, Sigrun Smola⁵, Roman Saternus¹, Thomas Vogt¹ and Joerg Reichrath¹

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VITAMIN D FOOD FORTIFICATION IN EUROPEAN COUNTRIES: THE UNDERUSED POTENTIAL TO PREVENT CANCER DEATHS

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