

ANTICANCER RESEARCH

International Journal of Cancer Research and Treatment

ISSN: 0250-7005

Volume 29, Number 9, September 2009

**Part A: Proceedings of the Symposium “Vitamin D Analogs in Cancer Prevention and Therapy”,
May 2008, Krefeld, Germany. Edited by J. Reichrath and M. Friedrich**

**Part B: Proceedings of the Symposium “Vitamin D, Calcium and Cancer”,
8th International Conference of Anticancer Research, October 2008, Kos, Greece.
Edited by H.S. Cross and M. Peterlik**

Contents

Part A

- Vitamin D Analogs in Cancer Prevention and Therapy: An Ancient Friend Revisited. J. REICHRATH, W. TILGEN, K. DIEDRICH, M. FRIEDRICH (*Homburg/Saar; Lübeck; Krefeld, Germany*) 3469
- * Review: The Impact of 1,25(OH)₂D₃ and its Structural Analogs on Gene Expression in Cancer Cells – A Microarray Approach. C. KRIEBITZSCH, L. VERLINDEN, G. EELEN, B.K. TAN, M. VAN CAMP, R. BOUILLON, A. VERSTUYF (*Leuven, Belgium*) 3471
- * Review: A Genomic Perspective on Vitamin D Signaling. C. CARLBERG, S. SEUTER (*Luxembourg; Kuopio, Finland*) 3485
- * Review: Sun and Sun Beds: Inducers of Vitamin D and Skin Cancer. E. CICARMA, A.C. POROJNICU, Z. LAGUNOVA, A. DAHLBACK, A. JUZENIENE, J. MOAN (*Oslo, Norway*) 3495
- * Review: Solar Radiation, Vitamin D and Cancer Incidence and Mortality in Norway. J. MOAN, A. DAHLBACK, Z. LAGUNOVA, E. CICARMA, A.C. POROJNICU (*Oslo, Norway*) 3501
- * Review: The Relevance of Vitamin D Receptor (VDR) Gene Polymorphisms for Cancer: A Review of the Literature. K. KÖSTNER, N. DENZER, C.S.L. MÜLLER, R. KLEIN, W. TILGEN, J. REICHRATH (*Homburg; Kaiserslautern, Germany*) 3511

Contents continued on the back cover

Air Pollution in Relation to U.S. Cancer Mortality Rates: An Ecological Study; Likely Role of Carbonaceous Aerosols and Polycyclic Aromatic Hydrocarbons. W.B. GRANT (<i>San Francisco, CA, USA</i>)	3537
Evaluation of 19-Nor-2 α -(3-hydroxypropyl)-1 α ,25-dihydroxyvitamin D ₃ as a Therapeutic Agent for Androgen-dependent Prostate Cancer. J.N. FLANAGAN, S. ZHENG, K.-C. CHIANG, A. KITTAKA, T. SAKAKI, S. NAKABAYASHI, X. ZHAO, R.A. SPANJAARD, K.S. PERSONS, J.S. MATHIEU, M.F. HOLICK, T.C. CHEN (<i>Boston, MA, USA; Kaohsiung, Taiwan, ROC; Kanagawa; Toyama, Japan; Stockholm, Sweden</i>)	3547
Regulation of Steroid Receptor Expression by 1 α -Hydroxyvitamin D ₅ in Hormone-responsive Breast Cancer Cells. E.A. HUSSAIN-HAKIMJEE, R.G. MEHTA (<i>Chicago, IL, USA</i>)	3555
Synthesis and Biological Activities of 14- <i>epi</i> -MART-10 and 14- <i>epi</i> -MART-11: Implications for Cancer and Osteoporosis Treatment. A. KITTAKA, H. HARA, M. TAKANO, D. SAWADA, M.A. ARAI, K. TAKAGI, T. CHIDA, Y. HARADA, H. SAITO, K. TAKENOUCHE, S. ISHIZUKA, K. HAYASHI, S. IKUSHIRO, T. SAKAKI, T. SUGIURA, T.C. CHEN (<i>Kanagawa; Tokyo; Toyama, Japan; Boston, MA, USA</i>)	3563
Synthesis of All Possible A-ring Diastereomers at the 1- and 3-Positions of 1 α ,25-Dihydroxy-2 β -(3-hydroxypropoxy)vitamin D ₃ (ED-71) Using C ₂ -Symmetrical Epoxide as a Common Starting Material. N. KUBODERA, S. HATAKEYAMA (<i>Tokyo; Nagasaki, Japan</i>)	3571
Antiproliferative and Calcemic Actions of <i>Trans</i> -Decalin CD-Ring Analogs of 1,25-Dihydroxyvitamin D ₃ . G. EELEN, L. VERLINDEN, J. LAUREYS, S. MARCELIS, P. DE CLERCQ, C. MATHIEU, R. BOUILLON, A. VERSTUYF (<i>Leuven; Ghent, Belgium</i>)	3579
Microarray Analysis of MCF-7 Breast Cancer Cells Treated with 1,25 Dihydroxyvitamin D ₃ or a 17-Methyl-D-ring Analog. E. VANOIRBEEK, G. EELEN, L. VERLINDEN, K. MARCHAL, K. ENGELEN, B. DE MOOR, I. BEULLENS, S. MARCELIS, P. DE CLERCQ, R. BOUILLON, A. VERSTUYF (<i>Leuven; Heverlee; Ghent, Belgium</i>)	3585
Fish Oil Enhances the Antiproliferative Effect of 1 α ,25-Dihydroxyvitamin D ₃ on Liver Cancer Cells. K.-C. CHIANG, K.S. PERSONS, N.W. ISTFAN, M.F. HOLICK, T.C. CHEN (<i>Kaohsiung, Taiwan, ROC; Boston, MA, USA</i>)	3591
* Review: Current Impediments to Acceptance of the Ultraviolet-B-Vitamin D-Cancer Hypothesis. W.B. GRANT, B.J. BOUCHER (<i>San Francisco, CA, USA; London, UK</i>)	3597
A Phase II Trial of Calcitriol and Naproxen in Recurrent Prostate Cancer. S. SRINIVAS, D. FELDMAN (<i>Stanford, CA, USA</i>)	3605
Expression of Prostaglandin Metabolizing Enzymes COX-2 and 15-PGDH and VDR in Human Granulosa Cells. M. THILL, S. BECKER, D. FISCHER, T. CORDES, A. HORNEMANN, K. DIEDRICH, D. SALEHIN, M. FRIEDRICH (<i>Lübeck; Krefeld, Germany</i>)	3611
Prostaglandin Metabolizing Enzymes in Correlation with Vitamin D Receptor in Benign and Malignant Breast Cell Lines. M. THILL, D. FISCHER, S. BECKER, T. CORDES, C. DITTMER, K. DIEDRICH, D. SALEHIN, M. FRIEDRICH (<i>Lübeck; Krefeld, Germany</i>)	3619
25-Hydroxyvitamin D ₃ 1 α -Hydroxylase Splice Variants in Benign and Malignant Ovarian Cell Lines and Tissue. D. FISCHER, M. THOMÉ, S. BECKER, T. CORDES, K. DIEDRICH, M. FRIEDRICH, M. THILL (<i>Lübeck; Krefeld, Germany</i>)	3627
Expression of 25-Hydroxyvitamin D ₃ -24-Hydroxylase in Benign and Malignant Ovarian Cell Lines and Tissue. D. FISCHER, M. THOMÉ, S. BECKER, T. CORDES, K. DIEDRICH, M. FRIEDRICH, M. THILL (<i>Lübeck; Krefeld, Germany</i>)	3635

Vitamin D-24-Hydroxylase in Benign and Malignant Breast Tissue and Cell Lines. D. FISCHER, S. BECKER, T. CORDES, B. BÜCKER, K. DIEDRICH, M. FRIEDRICH, D. SALEHIN, M. THILL (<i>Lübeck; Krefeld, Germany</i>)	3641
Cross-talk between Vitamin D Receptor (VDR)- and Peroxisome Proliferator-activated Receptor (PPAR)-signaling in Melanoma Cells. P. SERTZNIG, T. DUNLOP, M. SEIFERT, W. TILGEN, J. REICHRATH (<i>Homburg/Saar, Germany; Kuopio, Finland</i>)	3647
Expression of 25-Hydroxyvitamin D-1 α -Hydroxylase (1 α OHase, <i>CYP27B1</i>) Splice Variants in HaCaT Keratinocytes and Other Skin Cells: Modulation by Culture Conditions and UV-B Treatment <i>In Vitro</i> . M. SEIFERT, W. TILGEN, J. REICHRATH (<i>Homburg, Germany</i>)	3659
Reduced Serum 25-Hydroxyvitamin D Levels in Stage IV Melanoma Patients. B. NÜRNBERG, S. GRÄBER, B. GÄRTNER, J. GEISEL, C. PFÖHLER, D. SCHADENDORF, W. TILGEN, J. REICHRATH (<i>Homburg; Essen, Germany</i>)	3669
* Review: How to Optimize Vitamin D Supplementation to Prevent Cancer, Based on Cellular Adaptation and Hydroxylase Enzymology. R. VIETH (<i>Toronto, ON, Canada</i>)	3675
Part B	
Preface: Vitamin D, Calcium, and Cancer. H.S. CROSS, M. PETERLIK (<i>Vienna, Austria</i>)	3685
* Review: Calcium, Vitamin D and Cancer. M. PETERLIK, W.B. GRANT, H.S. CROSS (<i>Vienna, Austria; San Francisco, CA, USA</i>)	3687
* Review: Epidemiology of Vitamin D Insufficiency and Cancer Mortality. S. PILZ, A. TOMASCHITZ, B. OBERMAYER-PIETSCH, H. DOBNIG, T.R. PIEBER (<i>Graz, Austria</i>)	3699
* Review: Modulation of Vitamin D Synthesis and Catabolism in Colorectal Mucosa: A New Target for Cancer Prevention. H.S. CROSS, T. NITTKE, M. PETERLIK (<i>Vienna, Austria</i>)	3705
The Dependency of Vitamin D Status on Body Mass Index, Gender, Age and Season. Z. LAGUNOVA, A.C. POROJNICU, F. LINDBERG, S. HEXEBERG, J. MOAN (<i>Oslo, Norway</i>)	3713
Mutual Associations between Malignancy, Age, Gender, and Subsite Incidence of Colorectal Cancer. W. BROZEK, S. KRIWANEK, E. BONNER, M. PETERLIK, H.S. CROSS (<i>Vienna, Austria</i>)	3721
Parallel Elevation of Colonic 1,25-Dihydroxyvitamin D ₃ Levels and Apoptosis in Female Mice on a Calcium-deficient Diet. T. NITTKE, E. KALLAY, T. MANHARDT, H.S. CROSS (<i>Vienna, Austria</i>)	3727
* Reviews (pages 3471, 3485, 3495, 3501, 3511, 3597, 3675, 3687, 3699, 3705)	