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Preface

Twelfth Workshop on Vitamin D

The Twelfth Workshop on Vitamin D was held at the Maastricht Exhibition and Congress Centre in Maastricht, The Netherlands from 6 July to 10 July 2003. A total of 323 registered delegates from 30 countries were in attendance.

The primary function of the Vitamin D Workshop is to organize and present scientific meetings on any aspect related to vitamin D. Historically, 12 Vitamin D Workshops have been presented. The first meeting was held in Frankfurt, Germany in 1973 and meetings have been held on approximate 3-year intervals, alternating between venues in the USA and Europe. The Twelfth Vitamin D Workshop marked our 30th anniversary.

The substantial attendance at the Maastricht Workshop reflected the continuing high level of world-wide interest in research developments related to vitamin D. Presented in a table below are the dates and attendance, as well as the number of talks given at the twelve Vitamin D Workshops that have now been held.

detailed table of contents which enumerates the complete titles and names of all authors for each of the 114 chapters that comprise this special Proceedings. Within each topic, the first series of chapters are written by invited or plenary speakers followed by the free communications. This Proceedings Publication is the twelfth in our series. It should be noted that the previous eleven were published as independent stand alone books, each of approximately 1000 pages. For the Proceedings of the Twelfth Workshop on Vitamin D, it was a decision of the Workshop Advisory Committee to publish the Proceedings in a peer reviewed journal. We are delighted that the editor of the *Journal of Steroid Biochemistry and Molecular Biology*, Dr. Jorge Pasqualini, and Elsevier Press have extended to the Vitamin D Workshop an invitation to allow fulfillment of our plan.

The Scientific Program for the Twelfth Workshop on Vitamin D was proposed by the Program Committee and implemented by the Workshop Advisory Committee; membership of these two groups is summarized on subsequent pages.

Workshop number	Date	Number of delegates	Number of countries represented	Number of presentations		Presentations per delegate
				Talks	Posters	
Ī	October 1973 (Frankfurt, West Germany)	56	3	5	0	0.09
II	October 1974 (Wiesbaden, West Germany)	221	22	84	0	0.39
III	January 1977 (Asilomar, California, USA)	332	20	45	124	0.51
IV	February 1979 (Berlin, West Germany)	402	26	80	205	0.76
V	February 1982 (Williamsburg, Virginia, USA)	455	25	95	298	0.86
VI	March 1985 (Merano, Italy)	474	27	77	380	0.96
VII	April 1988 (Rancho Mirage, California, USA)	381	24	82	292	0.98
VIII	July 1991 (Paris, France)	595	32	76	415	0.82
IX	May 1994 (Orlando, Florida, USA)	502	31	91	348	0.89
X	May 1997 (Strasbourg, France)	571	37	87	358	0.78
XI	May 2000 (Nashville, Tennessee, USA)	376	30	83	239	0.86
XII	July 2003 (Maastricht, The Netherlands)	323	30	75	255	1.03

This special volume of the *Journal of Steroid Biochemistry and Molecular Biology* represents the official published Proceedings of the Twelfth Workshop on Vitamin D and is organized by general topics. The table of contents is presented in two levels of organization. First appears a table of contents that identifies the major sections amongst which the individual chapters are grouped. This is followed by a

The Program Committee members nominated to the Advisory Committee scientists for consideration as Promoted Speakers. The objective here was to allow presentation of all view points on all scientific topics. Further, the Program Committee members collectively reviewed and scored the 293 submitted free communication abstracts, which were candidates for presentations. The scores

were rank-ordered to allow selection of the 38 abstracts that were selected for verbal 10 min presentations at the Workshop.

The quality and diversity of the science presented at the Twelfth Workshop on Vitamin D was again at an exceptionally high level. Remarkable progress continues to be made in research areas related to the vitamin D analogs of 1α,25(OH)₂D₃, the study of the biochemistry and cell biological effects in a wide variety of systems (including calcium homeostasis, vitamin D metabolism, regulation of gene transcription, and action of rapid responses). Also, an important component of the Program was dedicated to clinically related topics which included presentations concerning treatment of psoriasis, the application of $1\alpha,25(OH)_2D_3$ and its analogs, in the treatment of osteoporosis and application of prostate cancer. An important Nutrition Round Table was chaired by Professor Roger Bouillon. The panel speakers addressed the question of "what the appropriate circulating levels of 25-hydroxyvitamin D are appropriate for good health". The presenters included Professor David Fraser from Sydney, Australia, Professor Paul Lips from Amsterdam, The Netherlands and Professor Reinhold Vieth from Toronto, Canada.

The Twelfth Workshop on Vitamin D continued its tradition of the Young Investigator Awards. These awards ranged from approximately US\$ 500 to 1000. The Leo Foundation of Copenhagen, Denmark provided a generous gift of US\$ 10,000 to support sixteen travel awards to young investigators under the age of 35 who had submitted a meritorious abstract to the Workshop. The recipients are listed on the following pages.

Eight Vitamin D Workshop Career Recognition Awards were given to distinguished scientists to honor their significant and continuing contributions to the field of Vitamin D research during their careers. These included Dr. Lise Binderup (Denmark), Dr. Ernst Binderup (Denmark), Dr. Frances Glorieux (Canada), Dr. Seiichi Ishuzuka (Japan), Dr. William Okamura (USA), Dr. Paul Rasmussen (Denmark), Dr. Yoshiki Seino (Japan), and Dr. Monique Thomasset (France).

The Advisory Committee as well as the Program Committee acknowledge the financial support of the many sponsors of the Twelfth Workshop on Vitamin D. A tabulation of them appears on subsequent pages. Without the generous multi-corporate financial support, it would have been impossible to have had a Vitamin D Workshop that included such a comprehensive program and world-wide attendance.

The presentation of the Twelfth Workshop on Vitamin D in Maastricht would not have been possible without the dedicated and highly professional contributions of Nancy Day, Workshop Secretary, and June Bishop, Workshop Coordinator (who has attended and assisted in the last 11 consecutive Workshops!), both from the University of California, Riverside and Bernadette Minton, Assistant to Roger Bouillon, KU Leuven.

The Advisory Committee invites interested scientists to the next, the Thirteenth Workshop on Vitamin D, which will be held in the Victoria Conference Centre in Victoria, British Columbia from Saturday, 8 April to Wednesday, 12 April 2006 (a Welcoming Reception is scheduled for Friday evening, 7 April). We look forward to meeting you in Victoria!

Vitamin D Workshop Advisory Committee Roger Bouillon, Leuven, Belgium Anthony W. Norman, Riverside, California, USA April 2004

Organizers

Twelfth Workshop on Vitamin D

Advisory Committee

Roger Bouillon (Leuven, Belgium) Anthony W. Norman (Riverside, CA, USA)

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Twelfth Workshop on Vitamin D Awards

Young Investigator Award Recipients

Claire Banwell, University of Birmingham, UK
Puneet Dhawan, University of New Jersey Medical School, USA
Guy Eelen, Katholieke University, Leuven, Belgium
Luis Esteban, Washington University School of Medicine, St. Louis, MO, USA
Anna-Paula Giulietti, Katholieke University, Leuven, Belgium
Johanna Huhtakangas, University of California, Riverside, CA, USA
Maria Jesus Larriba, Insituto de Investgaciones Biomedicas, Madrid, Spain
Frederic Lezot, Institut des Coreliers, Paris, France
Mathew Mizwicki, University of California, Riverside, CA, USA
Christopher Olivera, University of California, Riverside, CA, USA
Paul Shaffer, Duke University, Durham, NC, USA
Qi Shen, University of New Jersey Medical School, USA
Bram Van Der Eerden, Erasmus MC, Rotterdam, The Netherlands
Evelyn Van Etten, Katholieke University, Leuven, Belgium
Glendon Zinser, University of Notre Dame, IN, USA

Career Award Recipients

Dr. Lise Binderup, Leo Pharma, The Netherlands
Dr. Ernst Binderup, Leo Pharma, The Netherlands
Dr. Francis Glorieux, Shriners Hospital, Canada
Dr. Seiichi Ishizuka, Teijin Pharma Ltd., Japan
Dr. William Okamura, University of California, Riverside, USA
Dr. Poul Rasmussen, Leo Pharma, The Netherlands
Dr. Yoshiki Seino, Okayama Medical School, Japan
Dr. Monique Thomasset, Hospital Robert Debre, France

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