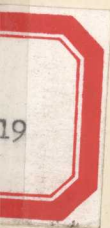


Therapeutic Approaches to Inflammatory Diseases

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Therapeutic Approaches to Inflammatory Diseases

Proceedings of the Fourth International Conference
of the Inflammation Research Association, held
October 23-27, 1988 in White Haven, Pennsylvania, U.S.A.

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PREFACE

The disillusionment with current therapies has provoked numerous innovative approaches to the development of new antiinflammatory and antiarthritic therapies. The Fourth International Conference of the IRA focused attention on several of these targets including the many peptide and lipid mediators associated with inflammatory diseases, the enzymes responsible for their production and regulation, and the complex cellular interactions that contribute to the immunopathology of the arthritides. This meeting represents one of the few occasions where the goal of a vast majority of the participants is to identify new safe and effective antiinflammatory and antiarthritic therapies; consequently, much time was devoted to discussion of the design and discovery of novel drugs. The major topics that were reviewed during the Conference and summaries of the workshops are included in this volume.

Some novel agents currently undergoing extensive preclinical investigation for the treatment of rheumatoid and osteoarthritis include several retinoids, leflunomide (HWA 486), tenidap (CP-66,248) and S-adenosylmethionine. The antiinflammatory actions of several cyclooxygenase and/or lipoxygenase inhibitors, leukotriene and platelet activating factor (PAF) antagonists are also under intense investigation. Monoclonal antibodies directed specifically against pathogenic cells present new opportunities for therapy of autoimmune diseases and their clinical progress is awaited with great interest.

The advent of biotechnology has greatly influenced inflammation research, and we are beginning to reap the benefits of the many innovative developments associated with this new technology. In particular, the discovery and characterization of an ever increasing number of cytokines including the interleukins, tumor necrosis factor, colony stimulating factors and platelet derived growth factor has resulted in an extensive evaluation of their role in the pathogenesis of arthritis. Efforts are underway to develop antagonists of these cytokines, notably interleukin-1 (IL-1), to clarify their pathophysiological functions.

This volume is intended to review many of the current targets for drug therapy as well as to propose mechanisms that may one day provide new therapeutic approaches.

Alan J. Lewis
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HISTORY OF THE INFLAMMATION RESEARCH ASSOCIATION

The Inflammation Research Association (IRA) was founded in 1970 by a group of scientists from the east coast pharmaceutical companies in the USA as a forum for discussion of methodologies used in inflammation research. It quickly expanded its horizons to cover the design and discovery of new and improved therapies for inflammatory diseases and attracted a wider audience. C. Gordon van Arman, Marvin Rosenthale, Ed Takesue, and Mary Lee Graeme were largely responsible for the initiation of the IRA, and set many of the unwritten ground rules for the Association.

The organization of the IRA has evolved over the years. Initially it consisted of only a President and Treasurer, but the organization was expanded in 1984 to include additional board members. This more formal structure was necessitated by the success of the First and Second International Conferences of the IRA that were held in November, 1982 and October, 1984, respectively. The local and overseas support of these conferences and the large number of people willing to take an active organizational role, allowed the IRA to reach the status of a national organization. The Third International Conference was held in October, 1986 and was attended by investigators from many nations, making the term "International Conference" a reality. The Fourth Conference in this series was held in October, 1988 and the proceedings are contained in this book.

In addition to the scientific sessions, workshops and poster presentations, the IRA sponsored for the first time the C. Gordon van Arman Awards to recognize research in inflammation among graduate students and postdoctoral fellows. Dr. van Arman has had a long and illustrious research career as an industrial scientist and has been a long standing member of the IRA. By establishing this award, the IRA wished to acknowledge these accomplishments, his enthusiasm for inflammation research, and his encouragement of young scientists.

The increase in attendees with each successive conference suggests that an important need is being met by our Association. The membership now approximates 775 and has a high percentage of industrial members. Indeed, the Association has been headed by industrial scientists from the beginning (See Table 1) and as a result, the flavor and direction of both the monthly and international meetings is focused on the scientific basis, design, development and clinical testing of new therapies for inflammatory and immunologically mediated diseases.

Table 1 IRA OFFICERS (1970-PRESENT)

YEAR	PRESIDENT	TREASURER	SECRETARY
1970	Ed Takesue <i>Sandoz</i>	---	---
1972	Marvin Rosenthal <i>Wyeth</i>	C. Gordon van Arman <i>Merck & Co.</i>	Mary Lee Graeme <i>CIBA-GEIGY</i>
1975	Duane Sofia <i>Carter Wallace</i>	Stewart Wong <i>McNeil</i>	---
1978	Lawrence Sancilio <i>A.H. Robins</i>	Stewart Wong <i>McNeil</i>	---
1980	Stewart Wong <i>Boehringer-Ingelheim</i>	Robert Capetola <i>Ortho</i>	---
1982	Robert Capetola <i>Ortho</i>	Ivan Otterness <i>Pfizer</i>	---
1984	Ivan Otterness <i>Pfizer</i>	Alan Lewis <i>Wyeth</i>	Lian Liauw <i>CIBA-GEIGY</i>
1986	Alan Lewis <i>Wyeth-Ayerst</i>	Neil Ackerman <i>DuPont</i>	Lian Liauw <i>CIBA-GEIGY</i>
1988	Neil Ackerman <i>DuPont</i>	Robert Bonney <i>Bristol-Myers</i>	Marcia Bliven <i>Pfizer</i>

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Much of the success of this Conference was made possible by the efforts of the following people: D. Argentieri, M. Bliven, R.J. Bonney, T. Carty, R.P. Carlson, J. Chang, K. Gans-Brangs, R.B. Gilbertsen, W. Hageman, J. Kerr, L. Liauw, L. Marinari, L. O'Neill-Davis, I.G. Otterness, T. Stim, R.J. Smith, B. Weichman, and D. Wolff.

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