

Leucocyte Typing IV

White Cell Differentiation
Antigens

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White Cell Differentiation Antigens

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VIENNA

21-25 February 1989

Chairman: Walter Knapp, Vienna

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Preface

Walter Knapp, *Chairman of the Fourth International Workshop and
Conference on Human Leucocyte Differentiation Antigens*

One of the most impressive achievements in the study of regulatory molecules on the surface of human haemopoietic cells has been the discovery, functional characterization, purification, and cloning of a plethora of new leucocyte surface molecules with the help of monoclonal antibodies. Together with the tremendous enlightenment resulting from the success of this research, the vast quantity of data produced has also created considerable confusion. It soon became apparent to everyone in the field that international co-operative efforts were essential to bring order out of this chaos, and to study all antibody-defined structures at the molecular level with all available reagents.

The solution to this problem, the creation of an international Workshop series, pioneered by Laurence Boumsell and Alain Bernard, turned out to be highly successful. In spite of the tremendous workload for every participant, the number of scientists willing to collaborate in this venture has grown continuously. The Fourth International Workshop on Human Leucocyte Differentiation Antigens gathered together 525 laboratories which jointly evaluated and/or submitted 1100 different monoclonal antibodies to human leucocyte surface molecules.

All of the results obtained at this Workshop were presented and analysed at the final conference, held in Vienna on February 21-25, 1989 and are described in this book. As in previous Workshops and conferences, the main aim was to describe and name new leucocyte differentiation antigens, each defined by two or more monoclonal antibodies. Based on the Workshop data, agreement was reached on 35 new CD clusters and subclusters. In addition, seven previously established clusters were redefined. The experimental data forming the basis for these new definitions are contained in this volume. The results of detailed studies on all previously defined antigens are also included. This book describes the state of the art for human leucocyte surface antigens in 1989.

For organizational reasons the classical subdivision of the Workshop conference into T-cell, B-cell, and myeloid cell antigens was maintained and additional sections were added for NK/non-lineage, activation, and platelet antigens. The organization of this volume follows this scheme with divisions into corresponding sections. It should be emphasized, however, that the borders between the various cell types are no longer as firm as they used to be. Scientists, even if interested only in a particular cell type, are therefore advised to watch developments in the analysis of seemingly unrelated cell types.

The appendices to this volume contain a summary report (CD guide) of all CD antigens defined so far, a complete list of all antibodies evaluated in the Fourth Workshop, and a list of author's addresses. Special care has been taken to compile an

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antibody index (as complete as possible) which should help the reader to find all experimental results obtained with a given antibody.

I am deeply indebted to the section committees of the Fourth International Workshop and Conference for their enthusiasm and fantastic support in the difficult two years of the Workshop organization. My thanks also go to the staff of the Vienna Medical Academy for Postgraduate Education and to Mrs Veronika Demetler for invaluable help in the organization of this Workshop and Conference.

Without ample financial contributions, this meeting would not have been possible. We are very grateful to: Deutsche Forschungsgemeinschaft, Bonn; Dakopatts a/s, Glostrup; Becton Dickinson Immunocytometry Systems, Mountain View, California; Coulter Immunology, Hialeah; Behringwerke AG, Marburg; and The Third International Workshop and Conference on Human Leucocyte Differentiation Antigens, all of whom made financial contributions to this Workshop.

Last, but not least, my gratitude goes to all contributors and to the publishers of this book. The early publication date was realized only due to the timely submission of our manuscripts and the efficiency of Oxford University Press.

Vienna
April 1989

Walter Knapp
Institute for Immunology
University of Vienna

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