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# A Historical Perspective on Evidence-Based Immunology

By Edward J. Moticka



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**A Historical Perspective on Evidence-Based Immunology** By Edward J. Moticka

A Historical Perspective on Evidence-Based Immunology focuses on the results of hypothesis-driven, controlled scientific experiments that have led to the current understanding of immunological principles. The text helps beginning students in biomedical disciplines understand the basis of immunologic knowledge, while also helping more advanced students gain further insights.

The book serves as a crucial reference for researchers studying the evolution of ideas and scientific methods, including fundamental insights on immunologic tolerance, interactions of lymphocytes with antigen TCR and BCR, the generation of diversity and mechanism of tolerance of T cells and B cells, the first cytokines, the concept of autoimmunity, the identification of NK cells as a unique cell type, the structure of antibody molecules and identification of Fab and Fc regions, and dendritic cells.

- Provides a complete review of the hypothesis-driven, controlled scientific experiments that have led to our current understanding of immunological principles
- Explains the types of experiments that were performed and how the interpretation of the experiments altered the understanding of immunology
- Presents concepts such as the division of lymphocytes into functionally different populations in their historical context
- Includes fundamental insights on immunologic tolerance, interactions of lymphocytes with antigen TCR and BCR, and the generation of diversity and mechanism of tolerance of T and B cells



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#### **About the Author**

Professor Edward J. Moticka, is a full professor Immunology and Microbiology at the A.T. Still University School of Osteopathic Medicine, Mesa, AZ.

He has taught immunology to medical and graduate student for more than 40 years. Currently he is responsible for all the immunology didactic teaching for first and second year medical students at the School of Osteopathic Medicine.

He has been a member of the American Association of Immunologists since 1976, and an Adjunct Professor in the Biodesign Institute and the School of Life Sciences at Arizona State University since 2005. In addition to teaching and research, Dr. Moticka is an expert in the area of research management including research compliance issues relating to human and animal subjects protection and technology transfer

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