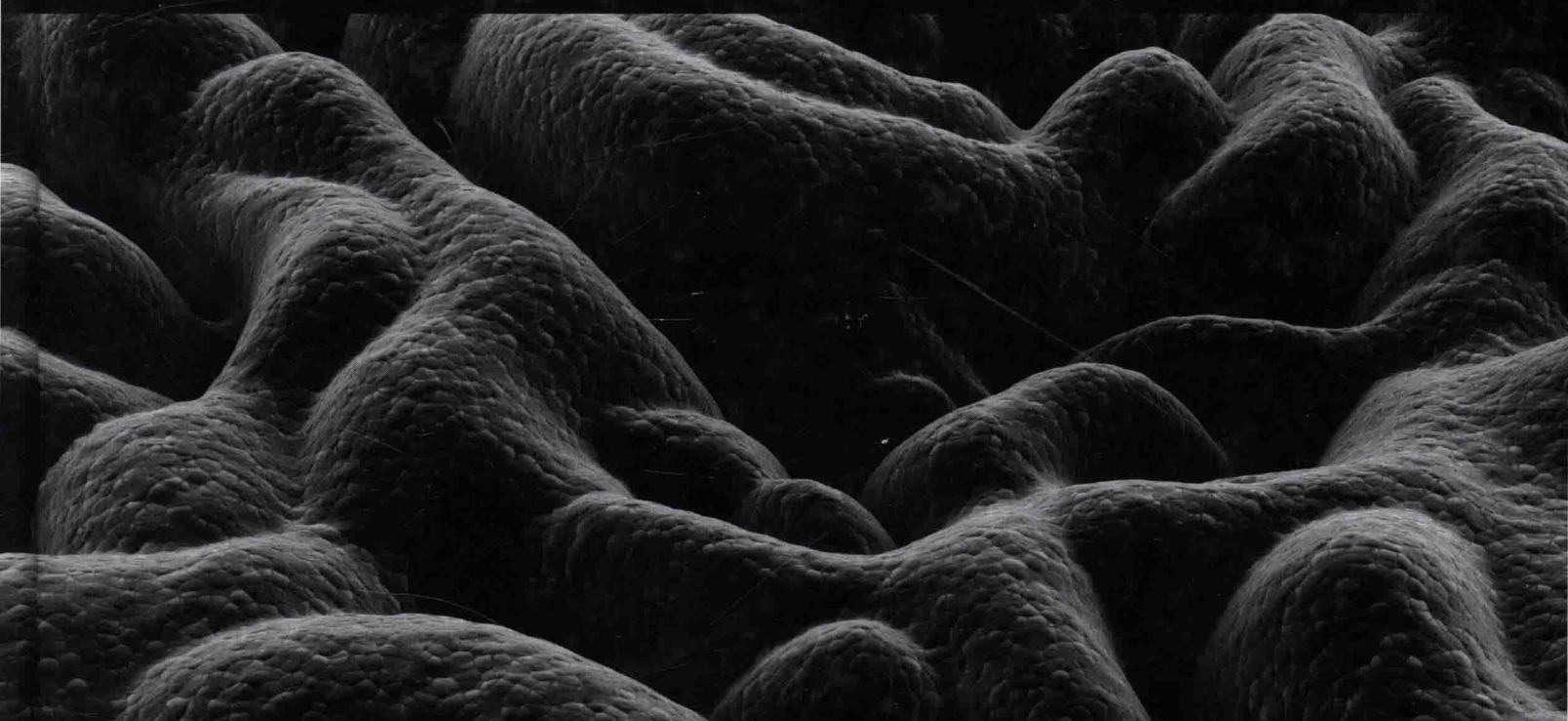


Fourth Edition

Mucosal Immunology

Volume 1



EDITED BY

Jiri Mestecky, Warren Strober,
Michael W. Russell, Brian L. Kelsall,
Hilde Cheroutre, Bart N. Lambrecht



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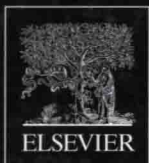
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This fully updated fourth edition of the widely used two-volume reference work, *Mucosal Immunology*, serves as the only comprehensive reference covering the basic science and clinical manifestations of mucosal immunology. *Mucosal Immunology* contains a well organized collection of scholarly interpretive discussions of new research data, exceptional illustrations, and novel perspectives on the most important research questions, and will prove an essential addition to the shelf of any researcher or clinician in the field.

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PRESS

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Volume 1

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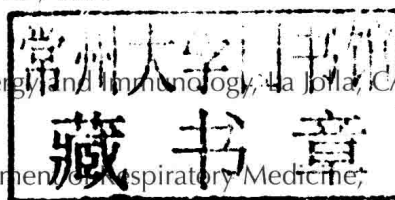
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Mucosal Immunology

In Memoriam

Malcolm Artenstein
Thomas Brown
John Cebra
Merrill W. Chase
Arlette Darfeuille-Michaud
Anne Ferguson
Robert Good
Joseph Heremans
Graham Jackson
Martin Kagnoff
Otakar Koldovsky
Hilary Koprowski
Frederick Kraus
Henry Kunkel
Leo LeFrançois
Lloyd Mayer
Goro Mogi
Eva Orlans
Richard Rothberg
Roberta Shahin
Jaroslav Sterzl
Masaharu Tsuchiya
Robert Waldman
Martin Zeitz

*For their lasting contributions
to the field of Mucosal Immunology*

Arlette Darfeuille-Michaud, who completed Chapter 48 for this edition before her passing, discovered the adherent-invasive biotype of *Escherichia coli* and its role in inflammatory bowel disease. Leo LeFrançois, who co-authored Chapter 35, was a leader in the field of mucosal T cells including intestinal intraepithelial $\gamma\delta$ - and $\alpha\beta$ - T cells and he was one of the first to introduce the concept of tissue-resident memory T cells. Lloyd Mayer, an editor of the third edition, was a noted clinical immunologist who first demonstrated that intestinal epithelial cells had a critical role in gut immune responses and could present antigen to T cells. Hilary Koprowski pioneered the first oral vaccine against polio and later became director of the Wistar Institute where he contributed to an improved rabies vaccine. John Cebra's seminal finding that intestinal IgA antibody-secreting cells had their origins in Peyer's patches was instrumental in developing the concept of the common mucosal immune system. Jaroslav Sterzl more than 50 years ago initiated studies on the fundamental role of intestinal microbiota in the development and function of the immune system in gnotobiotic animals. Thomas Brown contributed importantly to studies on IgA function and the induction of IgA subclass antibody responses. Martin Zeitz's major contribution was to define the gastrointestinal abnormalities caused by HIV infection; he was the first to show that HIV infection caused an enteropathy resulting in malabsorption and entry of bacterial products into the internal milieu. He contributed Chapter 77 to this edition before his passing.

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