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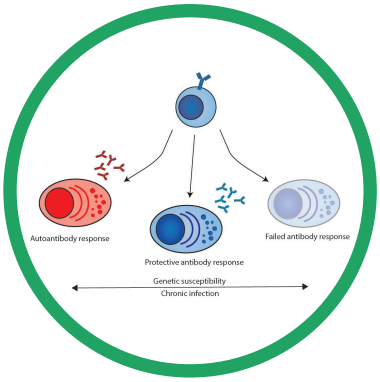
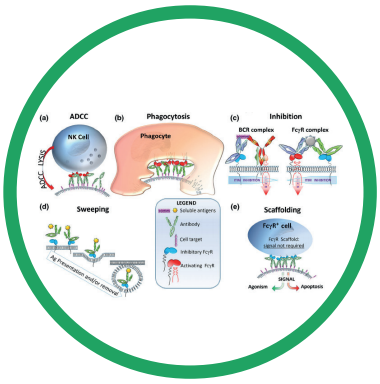


Special Feature on Regulation of humoral immunity in health and disease

The July 2020 issue of *Immunology & Cell Biology* contains a Special Feature on Regulation of humoral immunity in health and disease. The humoral immune response, that is, the production of antibodies by B cells, is a critical component of immunity to infection and underlies the protection provided by the majority of successful vaccines. Harnessing the power of B cells through immunisation has been one of the greatest medical advances for human health. However, we now understand that there are many ways in which B cell responses can go wrong – either failing to make a protective response or generating a response against self, resulting in autoimmunity. This Special Feature explores some of the latest advances in understanding B cell activation and differentiation, as well as how these processes can go wrong in disease. *Immunology & Cell Biology* sincerely thanks the coordinator of this Special Feature – Elissa Deenick– for her planning and input.



Special Feature on Multifaceted roles of antibody Fc effector functions

The April 2020 issue of *Immunology & Cell Biology* contains a Special Feature on Multifaceted roles of antibody Fc effector functions. Traditionally, antibody research has focused upon the recognition of antigens, in order to inhibit pathogens or block receptors. However, in recent years, there has been a growing appreciation for the critical value of the Fc region of antibodies. Despite the Fc region being designated as "constant," it is a surprisingly mutable region, regulated by genetics and post-translational modifications, which can result in structural changes that determine Fc functional capacity. This collection of Review articles covers the multifaceted functions of Fc antibodies for the control and protection against a range of infectious diseases including viral, parasitic and bacterial pathogens and examines the complexity behind the modulation of Fc effector functions in order to improve antibody-based vaccination or to enhance monoclonal antibody therapeutic interventions. However, these articles also emphasize the need for balanced antibody responses, caution against the pathogenic consequences of dysregulated Fc effector functions, while also highlighting the many unknowns and exciting avenues of research that are yet to be explored. *Immunology & Cell Biology* thanks the coordinator of this Special Feature – Amy Chung – for her planning and input.

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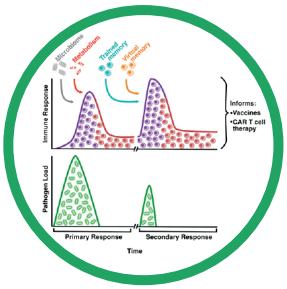
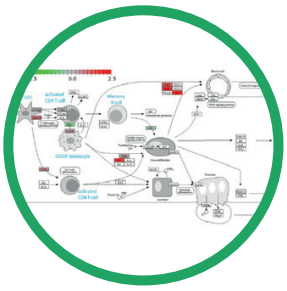


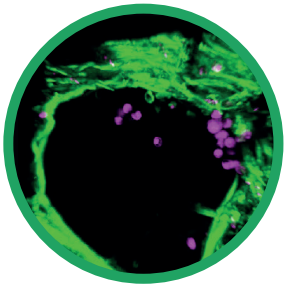
Special Feature on Immunological Memory

The August 2019 issue of *Immunology & Cell Biology* contains a Special Feature on Immunological Memory. The term "Immunological Memory" refers to the phenomenon that, after an initial exposure, immune mechanisms respond more vigorously to subsequent exposure to a pathogen. This is fundamental to the concept of immunity; it is a cornerstone many immune-based therapies and it has been documented in human history for thousands of years. However, there remains much to be learned about the basic biology underlying this phenomenon. This series of articles explores recent advances in immunological memory, by examining our current understanding of CD4 T cell memory differentiation pathways, evaluating the impact of the microbiome on developing B and T cell memory and exploring the role of metabolism in control of memory cell development. The articles also highlight how our understanding of the basic biology of immunological memory can be used to refine the design of immunotherapies, including vaccines and cell-based cancer therapies. Finally, several articles explore the broadening definition of immunological memory, with an exploration of trained immunity and virtual memory cells. *Immunology & Cell Biology* thanks the coordinators of this Special Feature – Joanna Kirman, Kylie Quinn and Robert Seder – for their planning and input.



Special Feature on Primary Immunodeficiencies

The April 2019 issue contains a Special Feature on Primary Immunodeficiencies. Inborn errors of immunity, or primary immunodeficiency disorders (PID), are monogenic diseases of the immune system. These affections give rise to complex diseases with a wide range of susceptibility to infections. The advent of next-generation sequencing has ushered in a Golden Age of PID research. The number of genes identified as responsible for PID has been rapidly rising, with a new PID gene identified on average every week for the past 10 years. Despite the recent explosion of knowledge, 90% of the estimated 3000 PID genes have yet to be studied. This Special Feature discusses recent advances in PID research, and what it means for our understanding of human immunology. *Immunology & Cell Biology* thanks the coordinators of this Special Feature – Adrian Liston & Stephanie Humblet-Baron – for their planning and input.



Special Feature on Macrophages in Tissue Repair

The March 2019 issue of Immunology & Cell Biology contains a Special Feature on Macrophages in tissue repair. In the late 18th century, Metchnikoff proposed the 'phagocytosis theory' in which he controversially placed the contribution of macrophages to organismal biology as being of even greater importance than their role in bactericidal defence. His view still prevails today, with macrophages appreciated as playing a fundamental role in the process of tissue repair. The present series of articles explores recent advances in this area, highlighting the importance of macrophage heterogeneity, plasticity, tissue specificity, activation status and cellular metabolism on the outcome of tissue repair. Finally, in a broader view of the repair process, the role of neutrophils as well as eicosanoids as supporting macrophage migration and polarisation is discussed. Immunology & Cell Biology thanks the coordinators of this Special Feature – Tiffany Bouchery and Nicola Harris – for their planning and input.

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