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| Titolo                  | Fc Mediated Activity of Antibodies : Structural and Functional Diversity /<br>/ edited by Jeffrey V. Ravetch, Falk Nimmerjahn  |
| Pubbl/distr/stampa      | Cham : , : Springer International Publishing : , : Imprint : Springer, ,<br>2019   |
| ISBN                    | 3-030-31053-1  |
| Edizione                | [1st ed. 2019.]  |
| Descrizione fisica      | 1 online resource (VII, 150 p. 14 illus., 12 illus. in color.)   |
| Collana                 | Current Topics in Microbiology and Immunology, , 0070-217X ; ; 423   |
| Disciplina              | 616.079  |
| Soggetti                | Immunology<br>Cancer research<br>Infectious diseases<br>Cancer Research<br>Infectious Diseases   |
| Lingua di pubblicazione | Inglese  |
| Formato                 | Materiale a stampa   |
| Livello bibliografico   | Monografia   |
| Nota di contenuto       | IgG Fc receptors: evolutionary considerations -- Role of FcγRs in<br>Antibody Based Cancer Therapy -- Anti-inflammatory Activity of IgG-Fc<br>-- IgG Fc glycosylation in human immunity -- IgE Glycosylation in<br>Health and Disease -- Immune Complex Vaccination -- Fc receptors in<br>anti-microbial protection.   |
| Sommario/riassunto      | This volume explores several aspects of how antibodies mediate their<br>activity in vivo, ranging from cancer immunotherapy to autoimmunity,<br>infection, and vaccination. Divided into seven chapters, it provides in-<br>depth insights into how antibodies and especially the antibody<br>fragment crystallizable (Fc) domain modulate immune responses and<br>antibody activity. The book begins by discussing evolutionary aspects<br>of how the family of Fc receptors that are the key molecules for<br>antibody activity evolved. In turn, it addresses the molecular and<br>cellular pathways underlying IgG activity in cancer immunotherapy, and<br>focuses on how IgG glycosylation regulates IgG and IgE activity in<br>autoimmunity, allergy and infection. In closing, it presents strategies<br>for developing novel antibody-based vaccination approaches. The book<br>is intended for a very broad readership, including graduate students, |

postdocs and principal investigators with a basic grasp of immunology.

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