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Nota di contenuto	Cover; Title Page; Copyright; Contents; Contributors; Chapter Introduction; References; Part I Mosaic of Autoimmunity; Chapter 1 Role of Adjuvants in Infection and Autoimmunity; Introduction; The different types of adjuvants; Aluminum salts; Oil-based adjuvants; Virosomes; Novel and experimental adjuvants; Mechanisms of adjuvanticity; Adjuvants and the adaptive and innate immune response; Adjuvants and TLRs; Mechanisms of adjuvant adverse effects; Autoimmunity and environmental/natural adjuvants; Adjuvant-related diseases; Mineral oils as a cause of autoimmunity Human adjuvant disease, silicone as an adjuvant, and connective tissue diseases Macrophagic myofasciitis and Gulf War syndrome; Autoimmune (autoinflammatory) syndrome induced by adjuvants - ASIA; Conclusions; References; Chapter 2 Infections as Adjuvants for Autoimmunity: The Adjuvant Effect; Introduction; The adjuvant effect; Innate immune pattern recognition of pathogens and adjuvants; Innate immune response mediates the adjuvant effect; Viral infection as adjuvant for autoimmunity: evidence from Coxsackievirus-induced myocarditis; ""Adjuvant disease""

Harnessing the adjuvant effect and autoimmunity against cancer
Conclusions; Acknowledgments; References; Chapter 3
Experimental Models of Adjuvants; Adjuvant models; Murine models;
Rats; Mice; Salmon; Rabbits; Swine; Primates; Conclusions; References;
Chapter 4 Answers to Common Misconceptions Regarding the Toxicity
of Aluminum Adjuvants in Vaccines; Introduction; AI and neurological
disorders; AI as adjuvant in vaccines; How is the safety of AI regulated?;
Dietary versus vaccine-derived AI: is there a difference?; Long-term
persistence of AI adjuvants in the body and its effects
AI's activation of the NLRP3 inflammasome pathway and its role in
autoimmune-inflammatory diseases
AI body burden and the health risks
associated with life-long exposure to AI adjuvants; Conclusions;
Acknowledgments; References; Chapter 5 Allergy and Autoimmunity
Caused by Metals: A Unifying Concept; Introduction; Delayed-type
hypersensitivity; The allergic and autoimmune effects of metals;
Mercury; Gold; Nickel; Aluminum; Conclusions; References; Chapter 6
Genetics and Vaccinology; Introduction; Brief history of vaccinology;
Vaccine response and genetics; Epidemiology and genetics
Polymorphism of the HLA region
Non-HLA genetic polymorphisms and
vaccine response; Conclusions; References; Chapter 7 Silicone and
Autoimmune/Inflammatory Syndrome Induced by Adjuvants (ASIA);
Introduction; Silicone; Autoimmune/inflammatory syndrome induced by
adjuvants (ASIA); Silicone and autoimmunity; Local adverse effects of
silicone; The systemic influence of silicone; Antibody response
following silicone exposure; Silicone and defined autoimmune diseases;
Silicone and scleroderma; Silicone and nondefined autoimmune
phenomena; Conclusions; References
Chapter 8 Silicone Breast Implants and Autoimmune/Inflammatory
Syndrome induced by Adjuvants (ASIA): A Literature Search

Sommario/riassunto

In light of the discovery of Autoimmune Syndrome Induced by Adjuvants, or ASIA, Vaccines and Autoimmunity explores the role of adjuvants - specifically aluminum in different vaccines - and how they can induce diverse autoimmune clinical manifestations in genetically prone individuals. Vaccines and Autoimmunity is divided into three sections; the first contextualizes the role of adjuvants in the framework of autoimmunity, covering the mechanism of action of adjuvants, experimental models of adjuvant induced autoimmune diseases, infections as adjuvants, the Gulf War Syndrome, sick-building s
