

[Mobile book] The Hygiene Hypothesis and Darwinian Medicine (Progress in Inflammation Research)

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From Rook Graham A W

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#5617833 in Books Rook Graham A W 2009-09-18 Original language: English PDF # 1 9.20 x .90 x 6.50l, 1.95 #File Name: 3764389028308 pages The Hygiene Hypothesis and Darwinian Medicine | File size: 36.Mb

From Rook Graham A W : The Hygiene Hypothesis and Darwinian Medicine (Progress in Inflammation Research) before purchasing it in order to gauge whether or not it would be worth my time, and all praised The Hygiene Hypothesis and Darwinian Medicine (Progress in Inflammation Research):

Man has moved rapidly from the hunter-gatherer environment to the living conditions of industrialised countries. The hygiene hypothesis suggests that the resulting reduced exposure to micro-organisms has led to disordered regulation of

the immune system, and hence to increases in certain chronic inflammatory disorders, like allergic disorders, autoimmunity, inflammatory bowel disease, atherosclerosis, depression, some cancers and perhaps Alzheimer and Parkinson. This book discusses the evidence for and against in the context of Darwinian medicine, which uses knowledge of evolution to cast light on human diseases. The approach is interdisciplinary, looking at mans microbiological history, at the biology of the effects of microorganisms on the immune system, and at the implications for chronic inflammatory disorders in multiple organ systems. Finally, the authors describe progress in the exploitation of microorganisms or their components as novel prophylactics and treatments.

From the reviews:"To leave no doubt, this book is well worth reading. ... It provides a highly welcome overview of the hypothesis from different angles, with an understandable immunology emphasis. ... Importantly, the book also addresses limitations to the hygiene hypothesis, as well as alternative and additional mechanisms ... this book is a highly worthwhile addition to existing literature. In view of its broadness and depth, and its critical appraisal of the hygiene hypothesis. It is useful for teaching purposes as well as for researchers from different fields, and the chances are good that it will gain soundbite notoriety as *The Rook Book*." (Prof. Dr. Jon D. Laman, *The Evolution Medicine (EMR)*, Feb 2010)This important book takes a clear evolutionary view of the hygiene hypothesis putting it in the context of an environment of evolutionary adaptedness. A particular strength of this book is that, as well as the expected and respected immunological and microbiological names, Rook has been able to attract experts from other fields, such as the award-winning biological anthropologist Armelagos, to give a well-rounded view of the subject. This is a thought provoking and well-written book . (Frank C. Hay, *Immunology News*, August, 2010)Book provides an up-to-date overview of research into the unintended negative consequences of modern hygiene and other recent changes to the modern human lifestyle on human health. The Hygiene Hypothesis and Darwinian Medicine is precious addition to this emerging field, and the large collection of ideas presented by the authors will benefit and motivate many researchers who are puzzled by the way that modern life with all its improvements is biting back and causing much suffering, especially among the younger members of our species. (Pascal Gagneux, *The Quarterly of Biology*, Vol. 87 (2), June, 2012)From the Back CoverMan has moved rapidly from the hunter-gatherer environment to the living conditions of the rich industrialised countries. The hygiene hypothesis suggests that the resulting changed and reduced pattern of exposure to micro-organisms has led to disordered regulation of the immune system, and hence to increases in certain chronic inflammatory disorders. The concept began with the allergic disorders, but there are now good reasons for extending it to autoimmunity, inflammatory bowel disease, atherosclerosis, depression associated with raised inflammatory cytokines, some cancers and perhaps neuroinflammatory disorders such as Alzheimers and Parkinsons. This book discusses the evidence for and against in the context of Darwinian medicine, which uses knowledge of evolution to cast light on human diseases. It is the first book to consider the broader implications of the hygiene hypothesis in areas of medicine where it has not previously been applied. The approach is interdisciplinary, looking at mans microbiological history, at the biology of the effects of microorganisms on the immune system, and at the implications for chronic inflammatory disorders in multiple organ systems. Finally, the authors describe progress in the exploitation of microorganisms or their components as novel prophylactics and treatments in several branches of medicine.