

## Advanced Vaccination Technologies for Infectious and Chronic Diseases



v měkké vazbě, 528 stran  
vyd. Academic Press Inc, III/2024  
ISBN 9780443185649

katalog.cena 3.940 Kč  
v této nabídce **2.750 Kč**

Advanced Vaccination Technologies for Infectious and Chronic Diseases is a comprehensive guide that delves into the intricate details of vaccine design, development across various platforms, and the path to commercialization. This book provides an introductory overview of vaccines, covering various types, developmental methodologies, delivery systems, adjuvants, immunization, and measurement of vaccine efficacy. It also showcases examples of vaccine research efforts targeting infectious diseases, autoimmune disorders, and cancer.

The book concludes by exploring cutting-edge advances in proteogenomics, immunopeptidomics, and future vaccine technologies. The primary objective of this book is to inform a broad scientific audience about the fundamental concepts underlying vaccine and immunology. Further, it serves as an invaluable reference for understanding the critical steps in the journey from discovery to regulatory processes for human clinical trials, addressing common misconceptions and presenting factual information about vaccinations.

## Allergic Asthma Immunopathogenesis



v měkké vazbě, 240 stran  
vyd. Academic Press Inc, V/2024  
ISBN 9780443155024

katalog. cena 3.700 Kč  
v této nabídce **2.590 Kč**

Allergic Asthma Immunopathogenesis: Immunopathology of the Allergic Asthma presents a new glance to the allergic asthma pathophysiology by focusing on the immunopathogenesis and allerge-inflammatory mechanisms of asthma and cell signaling pathways that can be used for various research purposes, including the design of anti-asthma treatment and target therapy for scientists and researchers. As asthma is a chronic, complicated airway disease whose mortality and morbidity rates have increased worldwide, some common treatments for asthma cannot control it nor even prevent simple inflammation and relieve shortness of breath. Thus, understanding its molecular pathways and pathophysiology is required in order to better understand the disease.

## Artificial Intelligence and Autoimmune Diseases

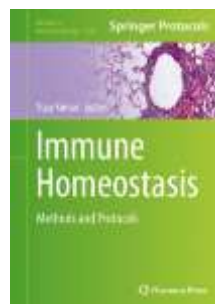


v pevné vazbě, 323 stran  
vyd. Springer, II/2024  
ISBN 9789819990283

katalog.cena 4.280 Kč  
v této nabídce **3.000 Kč**

The book provides an overview of various autoimmune disorders and how artificial intelligence (AI) and machine learning will be used for the diagnosis, prognosis, and treatment of these disorders. AI algorithms are used to create synthetic patient populations with the properties of actual patient cohorts, build personalized predictive models of drug combinations and unravel complex relationships between diet, microbiome, and genetic line-up to determine the comparative treatment response. The book highlights clinical applications and challenges of AI for the diagnosis and treatment/management of autoimmune disorders which includes Rheumatoid Arthritis (RA), Multiple Sclerosis (MS), Type I Diabetes, Psoriatic Arthritis (PsA), and other critical diseases.

## Immune Homeostasis: Methods and Protocols



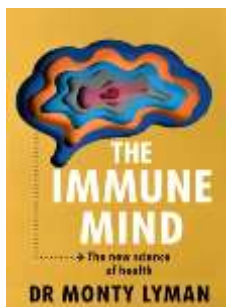
v pevné vazbě, 229 stran  
vyd. Springer, IV/2024  
ISBN 9781071637531

katalog.cena 5.040 Kč  
v této nabídce **3.520 Kč**

This volume discusses different aspects of immune homeostasis regulation and its dysregulation during various diseases, including infections, cancers, neurodegenerative diseases, autoinflammation, autoimmune diseases, and immunodeficiency, along with immunological, genetic, cell biology, and molecular biology techniques designed to understand immune homeostasis at different stages. The chapters in this book cover topics such as T cell subsets; monocyte-myofibroblast immunomodulation in a 3D co-culture system; human peripheral blood mononuclear cells in patients with neurodegenerative diseases; and CRISPR-Cas9 induced gene-editing in primary human monocytes. Written in the highly successful Methods in Molecular Biology series format, chapters include introductions to their respective topics, lists of the necessary materials and reagents, step-by-step, readily reproducible laboratory protocols, and tips on troubleshooting and avoiding known pitfalls.

Cutting-edge and comprehensive, Immune Homeostasis: Methods and Protocols is a valuable resource for both novice and experts researchers interested in learning more about this important and developing field.

## Immune Mind: New Science of Health



v měkké vazbě, 304 stran  
vyd. Torva, IV/2024  
ISBN 9781911709176

katalog.cena 440 Kč  
v této nabídce **320 Kč**

'Fascinating... A thoroughly thought-provoking read' Dame Sarah Gilbert, author of Vaxxers

Delving into the recent discovery of the brain's immune system, Dr Monty Lyman reveals the extraordinary implications for our physical and mental health.

Up until the last ten years, we have misunderstood a fundamental aspect of human health. Although the brain and the body have always been viewed as separate entities - treated in separate hospitals - science now shows that they are intimately linked. Startlingly, we now know that our immune system is in constant communication with our brain and can directly alter our mental health.

This has opened up a new frontier in medicine. Could inflammation causes depression, and arthritis drugs cure it? Can gut microbes shape your behaviour through the vagus nerve? Can something as simple as brushing your teeth properly reduce your risk of dementia? Could childhood infections lie behind neurological and psychiatric disorders such as tics and OCD?

In The Immune Mind, Dr Monty Lyman explores the fascinating connection between the mind, immune system and microbiome, offering practical advice on how to stay healthy. A specialist in the cutting-edge field of immunopsychiatry, Lyman argues that we need to change the way we treat disease and the way we see ourselves. For the first time, we have a new approach to medicine that treats the whole human being..

## Immune-Boosting Nutraceuticals for Better Human Health



v pevné vazbě, 386 stran  
vyd. Apple Academic Press Inc., I/2024  
ISBN 9781774913574

katalog.cena 4.320 Kč  
v této nabídce **3.020 Kč**

This new volume discusses the valuable contribution of immune-boosting properties of nutraceuticals and functional foods toward human health, exploring dietary antioxidants, vitamins and minerals, edible microalgae, herbs, phytonutrients, omega 3-fatty acids, and probiotics. The volume addresses the immune-boosting properties of herbs and vegetables and the pharmacological and therapeutic importance of commonly used medicinal herbs and carotenoids-containing vegetables and their immunological and biological actions for treating disease and maintaining health. Several chapters focus on marine-derived sources used to boost immunity, such as microalgae-derived compounds and compounds from coral reefs, which can promote better health and alleviate the risk of development of degenerative diseases.

## Immunobiology of COVID-19



v pevné vazbě, 300 stran  
vyd. Academic Press Inc., I/2024  
ISBN 9780443132841

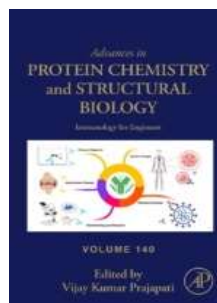
katalog.cena 3.500 Kč  
v této nabídce **2.450 Kč**

Immunobiology of COVID19, Volume 202 in the Progress in Molecular Biology and Translational Science Series provides a comprehensive and in-depth exploration of the SARS-CoV-2 virus and its impact on human health. Written by a team of expert contributors, the book covers various aspects of the virus, including its structure, lifecycle, and genomic replication. It delves into the epidemiology of COVID-19, comparing it with other related coronaviruses and discussing the concept of herd immunity.

The structural biology of SARS-CoV-2 is examined, with a focus on techniques such as electron microscopy and cryo-electron tomography. The book also explores the biology of SARS-CoV-2 variants and their immune evasion strategies. Furthermore, it delves into the pathogenesis of COVID-19, examining its multiorgan manifestations and the long-term effects of the disease.

The innate and adaptive immune responses to SARS-CoV-2 are discussed in detail, along with the role of B cells and T cells in the immune response. The volume concludes with a look at future insights and potential developments in the field. Accompanied by illustrative diagrams and visuals, this volume will serve as a valuable resource for researchers, healthcare professionals, and anyone interested in understanding the intricate details of SARS-CoV-2 and its impact on global health.

## Immunology for Engineers

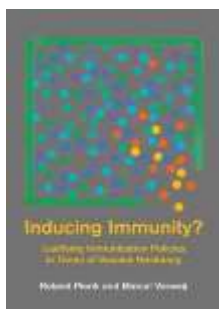


v pevné vazbě, 488 stran  
vyd. Academic Press Inc., V/2024  
ISBN 9780443193507

katalog.cena 3.500 Kč  
v této nabídce **2.450 Kč**

Immunology for Engineers, Volume 140 consists of chapters from stalwarts of the field, covering topics such as antibody engineering, adjuvant requirement and its methodology for assessment, and the need to develop immunotherapy, etc. Chapters covered in this volume discuss Current Status and Future Prospective of Breast Cancer Immunotherapy, Engineering high affinity antigen binders- beyond antibodies, Platelets and Inter-Cellular Communication in Immune Responses: Dialogue with both Professional and Non-Professional Immune Cells, Chimeric Antigen Receptor (CAR) T cell-based cancer immunotherapy: A boon for cancer-free life, and Molecular insights and promise of Oncolytic Virus based Immunotherapy.

## Inducing Immunity?



v měkké vazbě, 256 stran  
vyd. MIT Press, III/2024  
ISBN 9780262547796

katalog.cena 1.260 Kč  
v této nabídce **950 Kč**

Why immunization must be made mandatory in times of vaccine hesitancy, and how we can design and implement immunization policies in a practical, trustworthy, and democratic way.

We live in perilous times when a significant number of citizens are either defiantly antivaccination or hesitant to accept vaccinations for themselves or for their children. In *Inducing Immunity?*, legal philosopher Roland Pierik and bioethicist Marcel Verweij, explore ways to regulate collective immunization in as democratic a manner as possible. Approaching the problem as a matter of a conflict between the responsibility of government to protect public health and the basic right to freedom of citizens, Pierik and Verweij argue that John Stuart Mill's harm principle—the idea that individuals should be free to act so long as their actions do not harm others—offers a strong basis for coercive immunization policies.

Covering childhood immunization policies, as well as vaccination programs aimed at adult citizens, the authors argue that a coercive immunization policy in any liberal democracy must first satisfy the principle of proportionality. This leads them to an in-depth exploration of the role of exemptions, the nature of coercion, and the contents of vaccination programs. In the final part of the book, the authors also discuss the importance and scope of freedom of speech, given how the current spread of misinformation has undermined confidence in vaccines.

## Infection and Autoimmunity



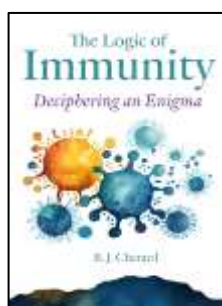
v měkké vazbě, 1118 stran  
vyd. Academic Press Inc., I/2024  
ISBN 9780323991308

katalog.cena 6.900 Kč  
v této nabídce **4.800 Kč**

In 2020 we lost Noel Rose, co-editor of the classic *Infection and Autoimmunity*. To honor and respect his work, a group of experts in the field have taken the initiative to make this book perpetual. The third edition of *Infection and Autoimmunity* updates all the recent and leading papers on infection and autoimmunity, in addition to a dedicated section on to the correlation between SARS-CoV-2 infection and autoimmunity.

From the very beginning of the COVID-19 pandemic, numerous papers have been published, including studies conducted by the editors and authors of the book, on COVID-19 and autoimmunity, and therefore this knowledge has been incorporated into this new edition. The addition and extended coverage on SARS-CoV-2/COVID-19 and autoimmunity are pivotal for the third edition of the book due to the COVID-19 pandemic. Medical students and practitioners, as well as academic staff in medical schools globally, are enthusiastic in searching for better understanding of the correlation between infection and autoimmunity in general, and the long-term effects of SARS-CoV-2 and COVID-19 on the immune system in particular, especially in terms of autoimmunity related to the virus.

## Logic of Immunity: Deciphering Enigma



v pevné vazbě, 208 stran  
vyd. John Hopkins University Press,  
III/2024  
ISBN 9781421447650

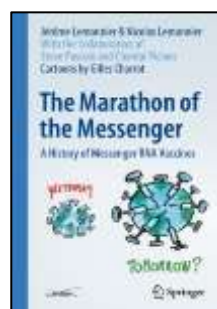
katalog.cena 810 Kč  
v této nabídce **560 Kč**

Unveils how the immune system works and explores strategies for harnessing its potential for maintaining good health. Embark on a fascinating journey into the human immune system with *The Logic of Immunity*. B.

J. Cherayil, an accomplished immunologist and educator, demystifies the complex workings of our body's defense system. This scientifically grounded book illustrates the inner mechanisms of specialized cells and molecules that safeguard our health, shedding light on how and why our immune systems can malfunction and lead to disease.

Drawing from years of experience and expertise, Dr. Cherayil skillfully guides readers through the intricacies of immune responses and offers invaluable insights into the latest research-backed strategies to harness their power for maintaining and restoring well-being. Blending scientific knowledge with historical anecdotes, this work also introduces the remarkable scientists who have shaped our understanding of immune function. Complemented by detailed illustrations and a glossary of key terms, *The Logic of Immunity* explains how the immune system interacts with other body systems, why some people develop autoimmune diseases while others do not, and how lifestyle factors may activate or suppress the immune system. Explore the enigmatic world of immunity, unlock its secrets, and discover the power it holds to protect our health.

## Marathon of Messenger: History of Messenger RNA Vaccines



v měkké vazbě, 202 stran  
vyd. Springer, XI/2023  
ISBN 9783031392993

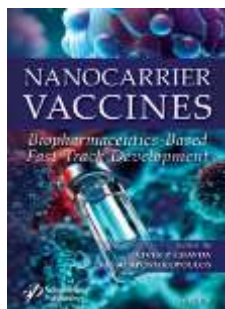
katalog.cena 880 Kč  
v této nabídce **620 Kč**

The Covid-19 pandemic changed the world. Indeed a real race took place worldwide between SARS-CoV-2 on the one hand and researchers on the other – especially those specializing in messenger RNA vaccines. Four years after its emergence, the pandemic is not over, but some decisive battles have been won, thanks to the great success of mRNA vaccines.

*The Marathon of The Messenger* presents the history of these mRNA vaccines, combining a scientific background with historical and economic perspectives. It appears that an important page in the history of these new vaccines was written in Europe, thanks to the crucial work of German and French scientists; this effort began in 1993 and continues to this day. In the face of a prevailing single-mindedness, these researchers pushed through a new therapeutic concept and defined the biotechnological keys that would open the way to the production of therapeutic messenger RNA in the fight against cancer and viral infections.

Written for a broad audience and accompanied by humorous cartoons, this book will appeal to anyone looking for scientific and historical answers about mRNA vaccines. Readers will discover not only the technical and scientific knowledge of how these vaccines work, but also the economic levers that were necessary to create this technology. This book has been written in collaboration with Dr.

## Nanocarrier Vaccines: Biopharmaceutics-Based Fast Track Development



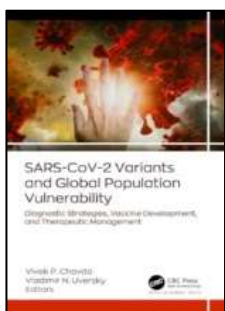
v pevné vazbě, 528 stran  
vyd. John Wiley & Sons Inc, III/2024  
ISBN 9781394174683

katalog.cena 5.000 Kč  
v této nabídce **3.500 Kč**

**NANOCARRIER VACCINES** This book details the benefits, restrictions, and types of nanoparticles used in the creation of vaccines for the treatment and prevention of illnesses. In nanomedicine and nano-delivery systems, materials in the nanoscale range are used as diagnostic instruments or to administer therapeutic compounds to particular targeted regions in a controlled manner. By delivering precise medications to specified locations and targets, nanotechnology provides several advantages in treating chronic human illnesses.

The use of nanomedicine (including chemotherapeutic medicines, biological agents, immunotherapeutic agents, etc.) in the treatment of various diseases has recently seen many notable applications. This book aims to be a single source material for understanding all the current and novel advancements in the field of nanotechnology. In this groundbreaking book the reader will find: biodegradable and non-biodegradable formulations and properties such as size, shape, charge, inertness, efficacy, morphology, and more; show how different nanoparticles, such as lipid-based, viral vector-based, and metal, uphold very significant properties individually, suggesting applicability in various management tactics; examines how genetic information-carrying entities are becoming the norm for eradicating some diseases; gathers an exhaustive amount of information on routes of administration such as the oral route, mucosal immunity, intramuscular, subcutaneous, and intradermal; explores the legal regulations for nanotechnology-based approaches.

## SARS-CoV-2 Variants and Global Population Vulnerability



v pevné vazbě, 584 stran  
vyd. Apple Academic Press Inc.,  
VII/2024  
ISBN 9781774917589

katalog.cena 5.880 Kč  
v této nabídce **4.100 Kč**

SARS-CoV-2, the coronavirus responsible for COVID-19, wreaked havoc on the world; it could both spread easily and mutate rapidly, leading to the decrease in the effectiveness of newly developed vaccines over time. The detection of these mutated variants and the development of more efficient vaccines requires significant effort and increased knowledge in this field. This new book, SARS-CoV-2 Variants and Global Population Vulnerability: Diagnostic Strategies, Vaccine Development, and Therapeutic Management, provides detailed and systemic information regarding the biology and immunophysiology of SARS-CoV-2 and highlights the global vulnerability of the world population to SARS-CoV-2 infection and COVID-19.

The book covers different aspects pertaining to the SARS-CoV-2 variants and their relation to global vulnerability. Chapters discuss the diagnostics, vaccine development, and therapeutic management starting from the zoonotic origin, organization, and transmission of SARS-CoV-2, lifestyle and immunophysiology of the virus, detection and diagnosis techniques, and analytical techniques. The book also observes the global impact of Delta and Omicron SARS-CoV-2 variants.

## Psychology of Vaccination



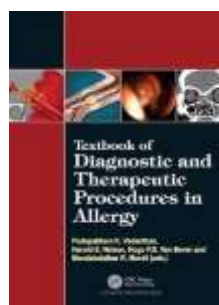
v měkké vazbě, 148 stran  
vyd. Taylor and Francis, IV/2024  
ISBN 9781032665405

katalog.cena 380 Kč  
v této nabídce **270 Kč**

Why do some people choose to be vaccinated and others do not? What is the difference between vaccine hesitancy and anti-vaccinism? What can social psychology tell us about attitudes towards vaccination? The Psychology of Vaccination identifies the social psychological drivers of vaccine mindsets, to explore why some people choose to be vaccinated, some are hesitant, and others refuse. It explores the socio-demographic factors related to vaccine hesitancy and considers the role of motivation in making this health decision. The book focuses on how individuals are social beings, inserted into a web of influences that guide their behaviour, and considers the impact this may have on their health choices.

Not only aimed at the convinced, but also for all those who have doubts about vaccination, The Psychology of Vaccination offers an insightful look at our health behaviours and considers whether it is possible to affect health behaviour change.

## Textbook of Diagnostic and Therapeutic Procedures in Allergy



v pevné vazbě, 380 stran  
vyd. Taylor and Francis, IV/2024  
ISBN 9781032216539

katalog.cena 3.820 Kč  
v této nabídce **2.670 Kč**

The uniqueness of this textbook lies in the fact that, it is the FIRST book in the field of allergy addressing in detail the various diagnostic and therapeutic procedures. The rationale behind presenting this book is to appraise the reader regarding the underlying principles of such procedures and to identify the limitations as well as usefulness in clinical practice. The chapters do include both traditional and modern methodologies representing the global nature of the specialty.

Authors have been drawn across the globe to represent the variety of such procedures used in clinical medicine. This textbook will be appealing to medical students, physicians-in-training as well as consultants.