



Journal of  
*Clinical Medicine*



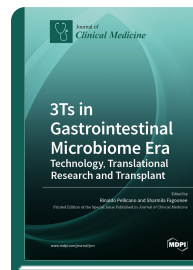
*Special Issue Reprint*

## **3Ts in Gastrointestinal Microbiome Era: Technology, Translational Research and Transplant**

[www.mdpi.com/books/reprint/4793](http://www.mdpi.com/books/reprint/4793)

Edited by  
Rinaldo Pellicano  
Sharmila Fagoonee

ISBN 978-3-0365-2796-3 (Hardback)  
ISBN 978-3-0365-2797-0 (PDF)



We have entered a new era where some concepts of the complex community of microorganisms (microbiota comprising bacteria, fungi, viruses, bacteriophages and helminths) are being re-discovered and re-visited. Microbiota and human interaction is not new; they have shared a long history of co-existence. Nevertheless, the opportunities to understand the role of these microorganisms in human diseases and to design a potential treatment were limited. At present, thanks to development of innovative and cutting-edge molecular biological and microbiological technologies as well as clinical informatics and bioinformatics skills, microbiome application is moving into clinics. Approaches to therapy based on prebiotics, probiotics and lately on fecal microbiota transplantation has revolutionized medicine. Microbiota outnumbers our genes and is now regarded as another organ of the body. The gastrointestinal tract and gut microbiota display a well-documented symbiotic relationship. Disruption of intestinal microbiota homeostasis—called dysbiosis—has been associated with several diseases. Whether dysbiosis is a cause or consequence of disease initiation and progression still needs to be investigated in more depth. The aim of this book is to highlight recent advances in the field of microbiome research, which are now shaping medicine, and current approaches to microbiome-oriented therapy for gastrointestinal diseases.



Order Your Print Copy  
You can order print copies at  
[www.mdpi.com/books/reprint/4793](http://www.mdpi.com/books/reprint/4793)

MDPI Books offers quality open access book publishing to promote the exchange of ideas and knowledge in a globalized world. MDPI Books encompasses all the benefits of open access – high availability and visibility, as well as wide and rapid dissemination. With MDPI Books, you can complement the digital version of your work with a high quality printed counterpart.



## Open Access

Your scholarly work is accessible worldwide without any restrictions. All authors retain the copyright for their work distributed under the terms of the Creative Commons Attribution License.



## Author Focus

Authors and editors profit from MDPI's over two decades of experience in open access publishing, our customized personal support throughout the entire publication process, and competitive processing charges as well as unique contributor discounts on book purchases.



## High Quality & Rapid Publication

MDPI ensures a thorough review for all published items and provides a fast publication procedure. State-of-the-art research and time-sensitive topics are released with a minimum amount of delay.



## High Visibility

Due to our global network and well-known channel partners, we ensure maximum visibility and broad dissemination. Title information of books is sent to international indexing databases and archives, such as the Directory of Open Access Books (DOAB), and the Verzeichnis Lieferbarer Bücher (VLB).



## Print on Demand and Multiple Formats

MDPI Books are available for purchase and to read online at any time. Our print-on-demand service offers a sustainable, cost-effective and fast way to publish MDPI Books printed versions.