



*biomedicines*



*Special Issue Reprint*

## **New Diagnostic and Therapeutic Approaches in Diabetic Microvascular Complications**

[www.mdpi.com/books/reprint/10250](http://www.mdpi.com/books/reprint/10250)

Edited by  
Ana Maria Dascalu  
Dragos Serban

ISBN 978-3-7258-2499-1 (Hardback)  
ISBN 978-3-7258-2500-4 (PDF)



Diabetes mellitus is a major health problem globally, with an ascendant trend, and is expected to reach up to 700 million cases by 2045. The microvascular triad includes diabetic retinopathy, nephropathy, and neuropathy, unique in diabetes. Despite significant achievements in early diagnosis and therapy, diabetic retinopathy remains the leading cause of blindness in the working-age population, with a severe impact on patients' quality of life. Diabetic peripheral neuropathy affects nearly 50% of adults with diabetes during their lifetime, and it represents a major risk factor for diabetic foot ulcers (DFUs), the most common cause of non-traumatic amputations worldwide. Classically, the duration of diabetes, level of hyperglycemia, arterial hypertension, and dyslipidemia are the most implicated risk factors. Novel research has found multiple molecular pathways that may interfere with vascular dysfunction, ischemia, and tissular damage. In this Special Issue, we showcase nine original articles and two comprehensive reviews that provide new data on novel biomarkers, early diagnosis, pathology, molecular mechanisms, and new therapies in the fields of diabetic retinopathy, nephropathy, neuropathy, and diabetic foot ulcers.



Order Your Print Copy  
You can order print copies at  
[www.mdpi.com/books/reprint/10250](http://www.mdpi.com/books/reprint/10250)

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.