

# THE CELLULAR SECRETOME AND ORGAN CROSSTALK

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Communication between different organs involves lipids and other small molecules and a host of proteins and peptides comprising the secretome of different organs ("organokinome"). More than 600 adipokines have been identified and an increasing number of hepatokines and myokines have recently been discovered with mostly unknown physiological impact. Importantly, an aberrant signature of the "organokinome" may be critically underlying a variety of metabolic diseases and may determine the individual's susceptibility to disease development. There is a need for a book that comprehensively describes the current knowledge of secretome biology in health and disease. This book does that.

*The Cellular Secretome and Organ Crosstalk* focuses on the release of peptides and proteins from different organs and their specific functions in metabolic regulation and cell and organ crosstalk. The book is written for experts in the field. However, for each topic, helpful references are included for the less experienced readers. A technical part summarizing the state of the art of secretome and crosstalk analysis is included as a final chapter.

## This book:

- Summarizes our current knowledge on the secretome of different cells and tissues
- Dissects auto-, para-, and endocrine functions of major secreted peptides and proteins
- Analyses secretory malfunction of different cells and its impact for disease development
- Authored by a leader in the field

## About the author:

**Juergen Eckel, PhD** has been working at the German Diabetes Center since 1978, and he is a Professor of Clinical Biochemistry at the University of Düsseldorf. He is a world-known expert in the field of obesity, type 2 diabetes, adipose tissue biology, and organ crosstalk. His laboratory has been working on the topic of cellular secretome and organ crosstalk for more than 20 years. Dr. Eckel is the Editor-in-Chief of *Archives of Physiology and Biochemistry* and on the Editorial Board of *Diabetes*. He is also a member of Advisory Panels of several companies.

Dr. Eckel has published more than 200 research papers with more



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