



Einladung zum Vortrag von

Prof. Thomas Ostenfeld Larsen

Technical University of Denmark, Lyngby

Discovery and engineering of fungal natural products

Thomas Ostenfeld Larsen is Professor of the Department of Biotechnology and Biomedicine at the Technical University of Denmark (DTU). His track record includes 158 peer-reviewed papers (h-index: 40) dealing with various aspects of analytical natural product chemistry.

He is head of the working group "Natural Product Discovery" which aims to develop new techniques and strategies towards the discovery of novel bioactive compounds from primarily filamentous fungi, but also marine bacteria and microalgae. These secondary metabolites include both potential new drugs, food colourants and biotoxins. Key-technologies used in his working group are different analytical and semi-preparative chromatographic instrumentations, coupled to diode array and mass spectrometric detection for dereplication and isolation of pure compounds followed by NMR structural elucidation. Another aim of the group is to increase the basic understanding of secondary metabolism in important fungal model organisms such as *Aspergillus nidulans* and *A. niger*, including projects on polyketides, non-ribosomal peptides, and terpenoids.

His vision is to discover novel biological active natural products, to understand their role in chemical ecology, and to elucidate and engineer their biosynthetic pathways to improve human health and quality of life. To achieve this he collaborates substantially with other research groups at DTU, as well as with several international partners.

Freitag, 23. November 2018, 15:30 Uhr
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