

Example of text of scientific interests of members of Advisory Board

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www.uni-muenster.de/Biologie.IBBP/agmoerschbacher/index.html



Prof. Moerschbacher has twenty years of experience in analyzing molecular structure-function relationships of partially acetylated chitosan oligomers and polymers, e.g. for the development of chitosan-based bio-stimulants for agricultural crop protection. He has initiated and coordinated a series of European and Indo-German, interdisciplinary and intersectoral research projects, such as CARAPAX (showing that the degrees of polymerization and acetylation crucially determine the anti-microbial and plant disease resistance inducing activities of chitosans), NANOBIO SACCHARIDES (showing that the nano-formulation of chitosans crucially influences their biological activities), PolyModE (showing that chitin and chitosan modifying enzymes can be used to produce chitosans with non-random patterns of acetylation), ChitoBioEngineering (developing biotechnological ways to produce chitosan oligomers with fully defined architecture), Nano3Bio (aiming at biotechnological ways to produce chitosan polymers with defined properties and functionalities), and CuChi-BCA (developing copper-containing chitosan nanoparticles in combination with bio-control agents for plant disease protection). He served, i.a., as a member of the Board and Vice-President of the European Chitin Society and of the Indo-German Intergovernmental Steering Committee on Biotechnology.

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