From molecular understanding to knowledge-based design and innovative uses of humic materials in biotechnology ("DESIGNER-BIOHUMICS")

Molecular Design and Innovative Uses of Biohumics

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Natural organic matter and humic substances are environmentally benign (e.g. biocompatible, non-toxic) and vastly abundant resources with a wealth of as yet mostly untapped applications in agriculture, remediation, biotechnology, industry and medicine.

In this concept poster, various routes to the synthesis of humic materials with tailored properties for a wide range of applications are proposed and outlined with various examples.