

Publication

Catalyst-Controlled Transannular Polyketide Cyclization Cascades: Selective Folding of Macrocyclic Polyketides

JournalArticle (Originalarbeit in einer wissenschaftlichen Zeitschrift)**ID** 4613472**Author(s)** Raps, Felix C.; Fäseke, Vincent C.; Häussinger, Daniel; Sparr, Christof**Author(s) at UniBasel** [Sparr, Christof](#) ; [Häussinger, Daniel](#) ;**Year** 2020**Title** Catalyst-Controlled Transannular Polyketide Cyclization Cascades: Selective Folding of Macrocyclic Polyketides**Journal** Angewandte Chemie International Edition**Volume** 59**Number** 42**Pages / Article-Number** 18390-18394**Keywords** biomimetic synthesis; cyclization; natural products; polyketides; regioselectivity

The biomimetic synthesis of aromatic polyketides from macrocyclic substrates by means of catalyst-controlled transannular cyclization cascades is described. The macrocyclic substrates, which feature increased stability and fewer conformational states, were thereby transformed into several distinct polyketide scaffolds. The catalyst-controlled transannular cyclizations selectively led to aromatic polyketides with a defined folding and oxygenation pattern, thus emulating β -keto-processing steps of polyketide biosynthesis.

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