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## Cyclic Peptides Donk

**biosynthesis of cyclic peptide antibiotics - uochb** - biosynthesis of cyclic peptide antibiotics wilfred van der donk department of chemistry, howard hughes medical institute and university of illinois at urbana-champaign, usa vddonk@illinois research in the 20th century identified several large families of natural products including terpenoids, alkaloids, polyketides, and non-ribosomal peptides. the genome sequencing efforts of the first ... **catalytic promiscuity in the biosynthesis of cyclic ...** - catalytic promiscuity in the biosynthesis of cyclic peptide secondary metabolites in planktonic marine cyanobacteria bo lia,1, daniel sherb,1, libusha kellyb, yanxiang shic, katherine huangb, patrick j. knerrc, **cyanobactins ribosomal cyclic peptides produced by ...** - table 1 examples of cyclic peptides and their structural features characterized from ascidians and sponges compound molecular weight number of amino acids **forward for iccp2015 issue of biopolymers peptide science** - in the final article of this section, wilfred van der donk and colleagues (university of illinois, usa) describe the lanthionine family of peptides and cyclic investigate their biosynthesis, describing an interesting relationship between the sequence of lanthionine precursors and the stereochemical composition of the mature peptide. the next six articles describe applications of cyclic ... **synthesis of antibiotics and related molecules** - cyclic peptides and macrolides. these compounds have attracted much attention in both academia and industry as molecules that potentially can inhibit challenging drug targets such as protein-protein interactions.1-4 furthermore, cyclic peptides exhibit an array of other activities. for instance, inoue and co-workers show that wap-8294a2 is a menaquinone-targeting antibiotic.5 the authors ... **chemistry & biology article - cell** - lantibiotics are a class of cyclic peptides produced by gram-positive bacteria. they are ribosomally synthesized as inactive precursor peptides that undergo posttranslational modification to generate their mature, biologically active forms. more than 50lantibiotics areknown to date, most of which function as anti-microbial peptides (chatterjee et al., 2005b; cotter et al., 2005; willey and van der ... **straightforward synthesis of cyclic and bicyclic peptides** - straightforward synthesis of cyclic and bicyclic peptides xavier elduque, enrique pedroso and anna grandas\* departament de química orgànica and ibub, facultat de química, universitat de **royal society of chemistry** - wilfred a van der donk university of illinois, usa | jesko koehnke university of st andrews, uk | james naismith university of st andrews, uk cyclic peptides are increasingly being employed as a chemical tool in biology and drug discovery. **ribosomal synthesis of dehydroalanine-containing peptides** - ribosomal synthesis of dehydroalanine-containing peptides florian p. seebeck and jack w. szostak\* howard hughes medical institute and center for computational and integrative biology, simches research center, **antimicrobial peptides and bacteriocins: alternatives to ...** - antimicrobial peptides and bacteriocins: alternatives to traditional antibiotics yongming sang and frank blecha\* department of anatomy and physiology, kansas state university, manhattan, ks 66506, usa **study yields more than a million new cyclic compounds ...** - donk said. cyclic molecules composed of one or more rings of amino acids are more stable and less susceptible to cellular enzymes that tend to chew off the ends of linear peptides. they are thus ... **catalytic promiscuity of a bacterial  $\pm$ -n-methyltransferase** - qi zhang, wilfred a. van der donk ... cyclic peptides such as nisin and haloduracin, and the e-amino group of lysine. hence it may have potential for enzyme engineering and combinatorial biosynthesis. bayesian phylogenetic inference of bacterial a-n-methyltransferases suggests that they have not evolved as a specific group based on the chemical transformations they catalyze, but that they ...

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