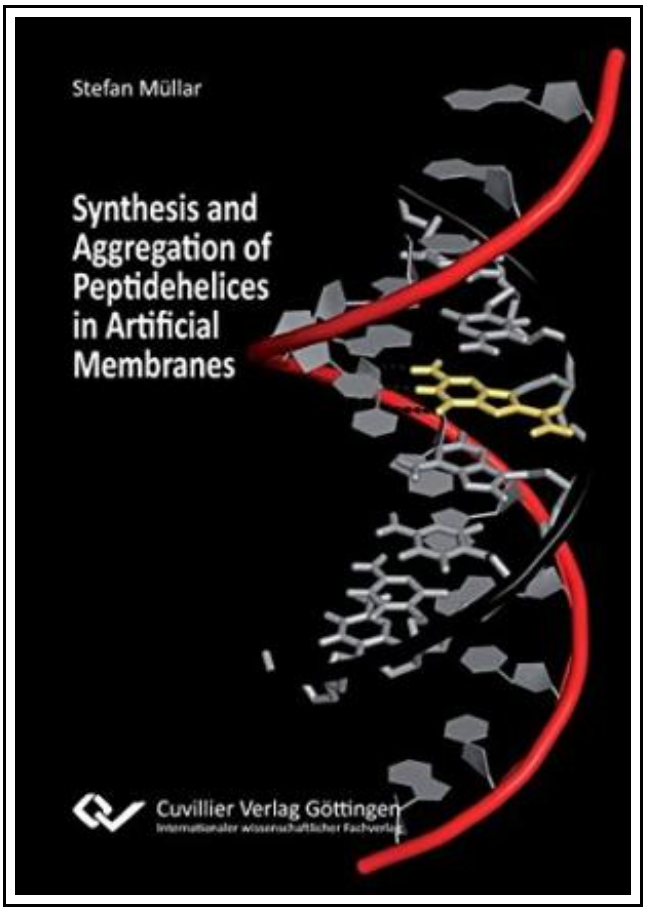
Synthesis and Aggregation of Peptidehelices in Artificial Membranes



Filesize: 4.38 MB

Reviews

It in one of my favorite publication. Indeed, it can be play, nonetheless an interesting and amazing literature. I discovered this publication from my i and dad suggested this publication to understand.
(Camryn Williamson)

SYNTHESIS AND AGGREGATION OF PEPTIDEHELICES IN ARTIFICIAL MEMBRANES

Cuvillier Verlag Nov 2012, 2012. Taschenbuch. Book Condition: Neu. 212x149x12 mm. Neuware - The function of membrane proteins is mainly dependend on their aggregational behavior. Some are active as monomers, whereas others need to assemble into oligomeric states.(1) In this context, molecular recognition, which is realized within the membrane and in the adjacent water layer, is crucial to achieve a specific assembly. In order to establish a well defined model system to study assembly processes in membranes, a recently reported D,Lalternating double helical hairpin construct in structural analogy to the natural antibiotic gramicidin A was utilized.(2,3) Recogntion at the membrane/water interface was addressed via met al complex formation as well as duplex formation of a short PNA sequence. To achieve recognition within the bilayer, nucleobases or polar amino acid residues, respectively, were introduced in the center of the hairpin TMD. Additionally, fluorophores were attached applying an orthogonal protecting group strategy. The functionalized TMDs were reconstituted in large unilamellar vesicles (LUVs). The in membrane pore formation by adopting 5.6 double helices was investigated using CD spectroscopy and the dynamic aggregation process was determined using fluorescence probes for Fluorescence Resonance Energy Transfer (FRET). For orientational studies as well as distance measurements of membrane incorporated peptide homodimer structures, spin probes were introduced within the lead structure. These homodimers were incorporated in LUVs and the 5.6 structure was determined via CD analysis. Further investigation will be performed applying EPR measurements. For the purpose of creating an alternative to the FRET assay, a fluorescence probe directly sensing the micro environment within the PNA recocgnition unit was utilized. As recently reported, vinyl modification of guanine at position 8 provides fluorescent behavior of the nucleobase. To benefit of the fluorescent properties also in PNA oligomers, the 8 vinylguanine PNA building block was synthesized. Incorporation into PNA oligomers...

You May Also Like

Psychologisches Testverfahren

Reference Series Books LLC Nov 2011, 2011. Taschenbuch. Book Condition: Neu. 249x191x7 mm. This item is printed on demand - Print on Demand Neuware - Quelle: Wikipedia. Seiten: 100. Kapitel: Myers-Briggs-Typindikator, Keirsey Temperament Sorter, DISG,...

Save ePub »

Programming in D

Ali Cehreli Dez 2015, 2015. Buch. Book Condition: Neu. 264x182x53 mm. This item is printed on demand - Print on Demand Neuware - The main aim of this book is to teach D to readers...

Save ePub »

Ne ma Goes to Daycare

AUTHORHOUSE, United States, 2015. Paperback. Book Condition: New. 216 x 216 mm. Language: English . Brand New Book ***** Print on Demand *****.This book is about a little biracial (African American/Caucasian) girl s first day...

Save ePub »

Children s Educational Book: Junior Leonardo Da Vinci: An Introduction to the Art, Science and Inventions of This Great Genius. Age 7 8 9 10 Year-Olds. [Us English]

Createspace, United States, 2013. Paperback. Book Condition: New. 254 x 178 mm. Language: English . Brand New Book ***** Print on Demand *****.ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

Save ePub »

Children s Educational Book Junior Leonardo Da Vinci : An Introduction to the Art, Science and Inventions of This Great Genius Age 7 8 9 10 Year-Olds. [British English]

Createspace, United States, 2013. Paperback. Book Condition: New. 248 x 170 mm. Language: English . Brand New Book ***** Print on Demand *****.ABOUT SMART READS for Kids . Love Art, Love Learning Welcome. Designed to...

Save ePub »