Peptide-coated Quantum Dots

By Pinaud, Fabien

Condition: New. Publisher/Verlag: VDM Verlag Dr. Müller | Applications to Biological Imaging of Single Molecules in Live Cells and Organisms | There is little doubt that recent advances in material sciences and nanotechnology will contribute to the development of new therapeutics and permit new discoveries in medical and biological sciences. Already, nanomaterials such as semiconductor nanocrystals, also known as quantum dots, have revolutionized cell and animal imaging techniques. The stringent conditions imposed by complex biological milieus demand that these nanomaterials be stable and biocompatible. Toward this aim, this thesis introduces an original surface chemistry that employs custom-designed peptides as an organic/inorganic interface on the surface of quantum dots. This peptide coating strategy was successfully tested on quantum dots emitting from the visible to the near-infrared spectrum range. Using the versatile physico-chemical properties of peptides, a toolkit was developed to functionalize quantum dots and control their biochemical activity at the nanometer scale. Peptide-coated quantum dots were engineered for in vivo animal imaging and employed to study the diffusion and the compartmentalization of lipid raft-associated membrane proteins, one at a time, in live cells. | Format: Paperback | Language/Sprache: english | 240 gr | 172 pp.

READ ONLINE
[6.55 MB]

Reviews

Good e book and helpful one. It is really basic but excitement from the 50 % of your pdf. Your way of life span is going to be enhance when you comprehensive looking at this pdf.
-- Novella Maggio

This type of book is almost everything and helped me hunting forward and more. I was able to comprehended almost everything using this published e pdf. Once you begin to read the book, it is extremely difficult to leave it before concluding.
-- Edwardo Ziemann

Relevant Books

Story Time for Kids with NLP by The English Sisters - The Little Sparrow and The Chimney Pot

MX Publishing. Paperback. Book Condition: new. BRAND NEW, Story Time for Kids with NLP by The English Sisters - The Little Sparrow and The Chimney Pot, Violeta Zuggo, Jutka Zuggo, Anna Kecskes, The Little Sparrow and the Chimney Top is the first...

There Is Light in You

Changing Minds Online, LLC, United States, 2015. Paperback. Book Condition: New. 229 x 152 mm. Language: English . Brand New Book ***** Print on Demand *****.There is Light in You is a collection of bedtime stories written by women who have a...

If I Have to Tell You One More Time: the Revolutionary Program That Gets Your Kids to Listen without Nagging, Reminding or Yelling

Tarcher/Putnam,US, United States, 2012. Paperback. Book Condition: New. 206 x 137 mm. Language: English . Brand New Book. The Revolutionary Program That Gets Your Kids To Listen Without Nagging, Reminding, or Yelling Why does it feel sometimes as if our children have...

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 expand and inspire young minds; this is...

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 expand and inspire young minds; this is...

New KS2 English SAT Buster 10-Minute Tests: 2016 SATs & Beyond

Paperback. Book Condition: New. Not Signed; This is Book 2 of CGP's SAT Buster 10-Minute Tests for KS2 Grammar, Punctuation & Spelling - it's a brilliant way to introduce English SATS preparation in bite-sized chunks. Each set of quick tests is packed...