1. Record Nr. UNINA9910785109903321

Autore	Kammerlander Nadine
Titolo	Metallized DNA [[electronic resource]] : synthesis, analysis and properties / / Nadine Kammerlander
Pubbl/distr/stampa	Hamburg [Germany], : Diplomica Verlag, 2009
ISBN	3-8366-2465-6
Descrizione fisica	1 online resource (111 p.)
Disciplina	572.8 572.8/69
Soggetti	Nanoparticles Nanochemistry
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Cover title.
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Metallized DNA; Abstract; Zusammenfassung; Contents; Chapter 1 Motivation; Chapter 2 Fundamentals; Chapter 3 Synthesis of Metallized DNA; Chapter 4 Absorption Spectrometry; Chapter 5 Dynamic Light Scattering; Chapter 6 Stabilization of the Nanoparticles; Chapter 7 Nanorings; Chapter 8 Atomic Force Microscopy; Chapter 9 Conclusion; Chapter 10 Outlook; Appendix; Bibliography
Sommario/riassunto	Metallic nanoparticles have been studied intensively during the last decades because of their intriguing optical properties: Due to collective oscillations of the conducting electrons - the so called plasmonic oscillations - they absorb light in the visible spectrum. The resonance frequency thereby sensitively depends on parameters such as the particle size and shape as well as the dielectric constant of the medium. DNA exhibits outstanding recognition properties and can be modified easily. Thus, template-directed material synthesis along synthetic DNA is a promising route to grow nanoparticle

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Autore	Gallardo Pedro A.
Titolo	Renal Physiology and Hydrosaline Metabolism / / by Pedro A. Gallardo, Carlos P. Vio
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2022
ISBN	3-031-10256-8
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (286 pages)
Collana	Biomedical and Life Sciences Series
Disciplina	612.463 573.49
Soggetti	Human physiology Physiology Internal medicine Urology Human Physiology Animal Physiology Internal Medicine
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	1.General functions of the kidney -- 2.Functional Anatomy of the Kidney -- 3.Glomerular Filtration and Renal Blood Flow -- 4.Transport of NaCl, organic solutes and water in the renal tubule -- 5.Water Balance and the Regulation of Plasma Osmolality -- 6.Osmoregulation in Non-Mammalian Vertebrates -- 7.Regulation of the Effective Circulating Volume and Sodium Balance -- 8.Renal Regulation of Acid-Base Balance -- 9.Potassium Balance Regulation -- 10.Tubular Transport of Calcium, Phosphate and Magnesium -- 11.Kidney hormones and their actions -- 12.Pathophysiological basis of high blood pressure -- 13.Genetic Alterations in Tubular Transportation of NaCl And Water -- 14.Answers to review questions.
Sommario/riassunto	This volume discusses renal function and the mechanisms by which the kidney regulates the composition and volume of the extracellular fluid. It also highlights the role of the kidney in the development and progression of arterial hypertension. Most textbooks of renal

physiology are based in mammalians physiology and mostly human physiology of the kidney, but the authors considered that this book should also include other species to include the broad spectrum of students and researchers in the life and biomedical sciences. In this sense, we included chapters such as comparative osmoregulation in non-mammalian vertebrates and we emphasize that in vertebrates like fish, reptiles, amphibians and birds, the kidneys and extrarenal organs are vital to maintain fluid homeostasis. The purpose of the book is to provide a concise frame of knowledge in a clear and direct language, of the renal function to medical and biological sciences students. In the context of normal renal function, we providepathophysiological basis for chronic renal diseases and hypertension with the participation of renal vasoactive hormones. This book is used as textbook in several physiology courses for medical, nursing and biological sciences students at the Pontifical Catholic University of Chile, Finis Terrae University, Universidad San Sebastian as well as other universities. This book is a translation of an original Spanish edition. The translation was done with the help of artificial intelligence (machine translation by the service DeepL.com). A subsequent human revision was done primarily in terms of content, so that the book will read stylistically differently from a conventional translation.