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| Titolo | Plasmids for therapy and vaccination // edited by M. Schleef |
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| Descrizione fisica | 1 online resource (308 p.) |
| Altri autori (Persone) | SchleefM (Martin) |
| Disciplina | 615/.3 |
| Soggetti | DNA vaccines Gene therapy Plasmids |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Description based upon print version of record. |
| Nota di bibliografia | Includes bibliographical references and index. |
| Nota di contenuto | Plasmids for Therapy and Vaccination; Preface; Contents; List of Contributors; 1 The Biology of Plasmids; 1 Introduction: What are plasmids?; 2 General properties of plasmids; 2.1 Plasmid replication and its control; 2.2 The molecular basis of incompatibility; 2.3 Plasmid inheritance; 2.4 Mechanisms of plasmid spread; 2.4.1 Conjugation in gram-negative bacteria; 2.4.2 Conjugation in gram-positive bacteria; 3 Plasmid-encoded phenotypes; 3.1 Bacteriocin production and resistance; 3.2 The Ti plasmids; 3.3 Heavy metal resistance; 3.4 Other phenotypical traits 4 The clinical importance of plasmids4.1 The spread of antibiotic resistance and the evolution of multiple antibiotic resistance; 4.2 Transfer of antibiotic resistance genes; 4.3 Mechanisms of antibiotic resistance; 4.4 Bacterial virulence genes; 5 Plasmid cloning vectors; 6 Perspectives; References; 2 Structures of Plasmid DNA; 1 Introduction; 2 Topological structures of plasmids; 3 Supercoiling of DNA; 4 DNA |

intercalating dyes; 5 Analysis of plasmid structures; 5.1 Electron microscopy (EM); 5.2 Agarose gel electrophoresis (AGE); 5.3 Capillary gel electrophoresis (CGE)
 5.4 Analytical chromatography6 Conclusion; References; 3 Genetic Vaccination with Plasmid Vectors; 1 Introduction; 2 Vector design; 2.1 Plasmid DNA; 2.2 Construction of simple transcription units; 2.3 Construction of complex transcription units; 3 Strategies for DNA delivery; 4 Priming humoral and cellular immune responses by DNA vaccines; 5 Experimental strategies facilitated by DNA vaccination; 6 Unique advantages of DNA vaccination; 7 DNA vaccines in preclinical animal models; 7.1 DNA vaccines to control infectious diseases; 7.2 Therapeutic tumor vaccines; 7.3 Autoimmune disease
 7.4 Treatment of allergy by therapeutic DNA vaccination8 Proposed clinical applications of DNA vaccines; 9 Risks of nucleic acid vaccination; 10 Future perspectives; References; 4 A Liposomal iNOS-Gene Therapy Approach to Prevent Neointimal Lesion Formation in Porcine Femoral Arteries; 1 Introduction; 2 Results and discussion; 2.1 Therapeutic plasmid; 2.2 The gene therapy product has a clinically acceptable format; 2.3 Efficient gene transfer was established in a minipig femoral artery injury model; 2.4 Transfection efficiency is dose dependent
 2.5 Non-viral iNOS gene transfer efficiently inhibits neointimal lesion formation3 Summary and perspectives; References; 5 Immunotherapy of Chronic Hepatitis B by pCMV-S2.S DNA Vaccine; 1 Introduction; 1.1 Hepatitis B: the disease; 1.2 Hepatitis B: treatments; 1.3 Hepatitis B: immune response to infection; 1.4 What are DNA vaccines?; 1.5 Which DNA vaccines for hepatitis B?; 2 DNA vaccines for the prevention of hepatitis B; 2.1 The mouse model; 2.1.1 Humoral response; 2.1.2 Cell-mediated response; 2.1.3 Mechanisms of DNA-induced immune response to HBsAg; 2.1.4 The primate model
 2.1.5 DNA-based vaccination of chimpanzees against HBV

Sommario/riassunto

This is the first book specializing in plasmids and their biomedical use, including all relevant aspects of production, applications, quality, and regulations. Readers will discover clinical applications for the wide range of preventive and therapeutic applications using plasmid DNA. The book describes modified vector systems based on plasmids, as well as the potency of genomic research and vector design by informatics. Using the example of fish vaccination, the application of DNA vaccination in veterinary health care is reviewed, followed by a detailed overview of plasmid production technol

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| 2. Record Nr. | UNINA9910956380203321 |
| Titolo | Bilingualism : beyond basic principles // edited by Jean-Marc Dewaele, Alex Housen, and Li Wei |
| Pubbl/distr/stampa | Clevedon ; ; Buffalo, : Multilingual Matters, c2003 |
| ISBN | 9786610828135 9780905028057 0905028058 9781847699237 1847699235 9781280828133 1280828137 9781853596315 1853596310 |
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| Collana | Multilingual Matters |
| Altri autori (Persone) | DewaeleJean-Marc <1962-> HousenAlex <1964-> LiWei <1961 August 11-> |
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| Soggetti | Bilingualism Language and languages |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Note generali | Includes index. |
| Nota di contenuto | Front matter -- Contents -- Preface -- Contributors -- Introduction and Overview -- 1. Who is Afraid of Bilingualism? -- 2. The Importance of Being Bilingual -- 3. Towards a More Language-centred Approach to Plurilingualism -- 4. Bilingual Education: Basic Principles -- 5. Bilingual Encounters in the Classroom -- 6. Language Planning: A Grounded Approach -- 7. Accepting Bilingualism as a Language Policy: An Unfolding Southeast Asian Story -- 8. Markets, Hierarchies and Networks in Language Maintenance and Language Shift -- 9. The Imagined Learner of Malay -- 10. Code-switching and Unbalanced Bilingualism -- 11. Code-switching: Evidence of Both Flexibility and Rigidity in Language -- 12. Rethinking Bilingual Acquisition -- |

Sommario/riassunto

The publication of Hugo Baetens Beardsmore's book *Bilingualism: Basic Principles* by Multilingual Matters in 1982 coincided with an unprecedented upsurge of interest in bilingualism. A major reason for this was the acknowledgement that bilingualism is far more common than was previously thought, and perhaps even the norm. The number of bilinguals at the turn of the third millennium is probably greater than ever before and will continue to grow as a result of the combined forces of globalisation, automatisisation, increased mobility and migration, and modernisation of foreign language teaching. The contributions in this book prove that, given the right conditions, bilingualism can confer distinct benefits like intellectual, psychological, social, cultural and economic improvement on the individual. The papers in this volume have been written by leading scholars in the field of bilingualism and deal with individual bilingualism, societal and educational phenomena, addressing issues such as bilingual usage, acquisition, teaching, and language planning and policy. The volume's major asset lies in its diversity, not only in depth of investigation and in topical variety but also in the range of languages and geographical regions covered. Another important feature of the volume is its multidisciplinary perspective. Among the contributors are linguists, sociologists, psychologists and sociolinguists.
