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Titolo	Realizing teracomputing [[electronic resource]] : proceedings of the tenth ECMWF Workshop on the Use of High Performance Computing in Meteorology : Reading, UK, 4-8 November, 2002 / / editors, Walter Zwieflhofer, Norbert Kreitz
Pubbl/distr/stampa	River Edge, NJ, : World Scientific, c2003
ISBN	1-281-90625-5 9786611906252 981-270-483-3
Descrizione fisica	1 online resource (433 p.)
Altri autori (Persone)	ZwieflhoferWalter KreitzNorbert
Disciplina	551.50285
Soggetti	Meteorology - Data processing Parallel processing (Electronic computers) Electronic books.
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.
Nota di contenuto	Preface; CONTENTS; Predictability of Weather and Climate: From Theory to Practice - From Days to Decades T. N. Palmer; Vector Returns: A New Supercomputer for the Met Office P. Burton; Vector Parallel Programming and Performance of a Spectral Atmospheric Model on the Earth Simulator S. Shingu, H. Fuchigami and M. Yamada; 10-KM Mesh Global Atmospheric Simulations W. Ohfuchi, T. Enomoto, K. Takaya and M. K. Yoshioka; Development of Parallel Ocean General Circulation Models on the Earth Simulator Y. Tanaka, M. Tsugawa, Y. Mimura and T. Suzuki 4D-Var Global Ocean Data Assimilation on the Earth Simulator N. Sugiura, S. Masuda, Y. Shen, J. D. Annan, T. Awaji, Y. Sasaki and Q. JiangImplementation of the IFS on a Highly Parallel Scalar System M. Hamrud, S. Saarinen and D. Salmond; Performance and Scalability of Atmospheric Models on LINUX Systems S. Lowder and T. E. Rosmond; The NOAA Operational Model Archive and Distribution System (NOMADS) G. K. Rutledge, J. Alpert, R. J. Stouffer and B. Lawrence

Data Ingest and Product Distribution for Teracomputing: A Scalable, Flexible E-Business Architecture B. R. Gritton, K. Pollak and M. A. RennickPRISM and ENES: A European Approach to Earth System Modelling E. Guilyardi, R. G. Budich and S. Valcke; Implementation of Data Mining Techniques for Meteorological Applications A. S, Cofino, J. M. Gutierrez, B. Jakubiak and M. Melonek; An Integrated E-Science Environment for Environmental Science K. Kleese van Dam, S. Sufi, G. Drinkwater, L. Blanshard, A. Manandhar, R. Tyer, R. Allan, K. O'Neill, M. Doherty, M. Williams, A. Woolfand
Toward the Flexible Composition and Deployment of Coupled Models R. W. Ford and G. D. RileyFrom Megaflops to Teraflops - The 10th ECMWF Workshop G.-R. Hoffmann; ACTS - A Collection of High Performing Software Tools for Scientific Computing L. A. Drummond and O. A. Marques; Climate Modeling: Coupling Component Models by MPH for Distributed Multi-Component Environment C. Ding and Y. He; Performance Analysis of the Scalable Modeling System D. Schaffer, J. Middlecoff; M. Govett and T. Henderson
Scalability and Performance of MOM: High-Resolution Simulations of the Atlantic Circulation R. Redler, A. Biastoch, J.-O. Beismann and K. KetelsenEddy Resolved Ecosystem Modelling in the Irish Sea J. Holt, R. Proctor, M. Ashworth, I. Allen and J. Blackford; A Self-Adaptive Finite Element Model of the Atmosphere N. Rakowsky, S. Frickenhaus, W. Hiller, M. Lauter, D. Handorf and K. Dethlof; Optimisation of ECMWF's Integrated Forecast System (IFS) for the IBM p690 J. Hague; Performance and Parallelization of a Coupled GCM on the IBM SP4 S. Cocke, T. E. Larow and Z. Christidis
Parallelization of HLAFS Model Following an Analytical Model Z. Zhu, Z. Christidis, J. Xue and H. Yan

Sommario/riassunto

Geosciences and in particular numerical weather prediction are demanding the highest levels of available computer power. The European Centre for Medium-Range Weather Forecasts, with its experience in using supercomputers in this field, organizes every other year a workshop bringing together manufacturers, computer scientists, researchers and operational users to share their experiences and to learn about the latest developments. This book provides an excellent overview of the latest achievements in and plans for the use of new parallel techniques in meteorology, climatology and oceanography. T

2. Record Nr. UNINA9910144737803321

Titolo	Handbook of meningococcal disease : infection biology, vaccination, clinical management / / edited by Matthias Frosch and Martin C. J. Maiden
Pubbl/distr/stampa	Weinheim, [Germany] : , : Wiley-VCH Verlag GmbH & Co. KGaA, , 2006 ©2006
ISBN	1-282-01046-8 9786612010460 3-527-60850-8 3-527-61445-1
Descrizione fisica	1 online resource (594 p.)
Disciplina	616.8/2 616.82
Soggetti	Meningitis Neisseria meningitidis
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 at the end of each chapters and index.
Nota di contenuto	Handbook of Meningococcal Disease; Contents; Preface; Foreword; List of Contributors; Color Plates; 1 Historical Aspects; 1.1 The Origins of Meningococcal Disease; 1.2 The 19th Century; 1.3 From 1900 to 1920; 1.4 From 1921 to 1939; 1.5 From World War II to 1960 - Epidemiology; 1.6 From 1961 to 2005; 1.7 Conclusion; References; Part I Epidemiology of Meningococcal Disease; 2 The Population Biology of Neisseria meningitidis: Implications for Meningococcal Disease, Epidemiology and Control; 2.1 Introduction: The Meningococcus, an Enigmatic Pathogen 2.1.1 The Global Burden of Meningococcal Disease2.1.2 Paradoxes Arising from Meningococcal Natural History; 2.2 Meningococcal Diversity and its Consequences; 2.2.1 Genetic and Antigenic Diversity; 2.2.2 Structure Within Meningococcal Populations - The Clonal Complex; 2.3 Mechanisms of Diversification and Structuring in Meningococcal Populations; 2.3.1 Mutation and Recombination in

Bacterial Evolution; 2.3.2 Evidence for Recombination in Meningococcal Populations; 2.4 Meningococcal Genotypes in Carriage and Disease; 2.4.1 The Hyperinvasive Lineages
2.5 Global Epidemiology of Meningococcal Disease2.5.1 The Group A Pandemics; 2.5.2 The ST-11 (ET-37) Complex Epidemics; 2.5.3 The ST-32 (ET-5) Pandemic; 2.5.4 The ST-41/44 Complex (Lineage 3); 2.5.5 Other Complexes; 2.6 Conclusions: Implications of Meningococcal Population Biology for Disease Control; References; 3 Methods for Typing of Meningococci; 3.1 Introduction; 3.2 Phenotypic Typing Methods; 3.3 Serological Typing Methods; 3.3.1 Serogrouping of Meningococci; 3.3.2 Serotyping and Serosubtyping; 3.4 Immunotyping; 3.5 Multilocus Enzyme Electrophoresis; 3.6 Genetic Characterization
3.6.1 Antigen Gene PCR and Sequencing for Meningococcal Typing3.6.2 Genogrouping (PCR-based Designation of Group); 3.6.3 Genotyping and Genosubtyping - porB and porA Sequencing; 3.6.4 FetA; 3.6.5 Multilocus Sequence Typing; 3.6.6 Variable-number Tandem Repeats; 3.6.7 Pulsed Field Gel Electrophoresis; 3.6.8 Databases; 3.7 Conclusion; References; 4 Antibiotic Resistance; 4.1 Introduction; 4.2 Testing Antibiotics Against N. meningitidis; 4.2.1 Methodological Issues in N. meningitidis Susceptibility Testing; 4.2.1.1 The "Invasion" of the Etest; 4.2.1.2 The Breakpoint Issue
4.3 Clinical Impact and Spread of Antibiotic Resistance in Meningococcal Disease4.3.1 Antibiotic Resistance in the Chemoprophylaxis of Meningococcal Disease; 4.3.2 Antibiotic Resistance in the Treatment of Meningococcal Disease; 4.3.2.1 Penicillin; 4.3.2.2 Chloramphenicol; 4.3.2.3 Quinolones; 4.4 Are There New Drugs or New Strategies on the Horizon?; 4.5 Molecular Tools for Definition of Antimicrobial Susceptibility in N. meningitidis; References; Part II Genetics and Genomics of the Meningococcus; 5 Neisseria meningitidis Genome Sequencing Projects; 5.1 Introduction
5.2 The Genomes of Neisseria meningitidis

Sommario/riassunto

A comprehensive overview of recent advances, from current basic research and epidemiology, to novel therapeutic strategies and clinical management. Here, the leading scientists who have made major advances in the field provide up-to-date reviews and describe their current knowledge and concepts.As such, this is the first volume to summarize the implications of the meningococcus genome-sequencing project, emphasizing the novel strategies in vaccine development. Following a look at the history, the authors go on to treat the epidemiology of meningococcal disease, as well as the genetics, str