

Contents

Vaccine Informatics, Yongqun Oliver He, Rino Rappuoli, Anne S. De Groot, and Robert T. Chen
Volume 2010, Article ID 765762, 2 pages

Emerging Vaccine Informatics, Yongqun He, Rino Rappuoli, Anne S. De Groot, and Robert T. Chen
Volume 2010, Article ID 218590, 26 pages

Bioinformatics in New Generation Flavivirus Vaccines, Penelope Koraka, Byron E. E. Martina,
and Albert D. M. E. Osterhaus
Volume 2010, Article ID 864029, 17 pages

Comparative Pathogenesis and Systems Biology for Biodefense Virus Vaccine Development,
Gavin C. Bowick and Alan D. T. Barrett
Volume 2010, Article ID 236528, 11 pages

Inflammatory and Autoimmune Reactions in Atherosclerosis and Vaccine Design Informatics,
Michael Jan, Shu Meng, Natalie C. Chen, Jietang Mai, Hong Wang, and Xiao-Feng Yang
Volume 2010, Article ID 459798, 16 pages

High Throughput T Epitope Mapping and Vaccine Development, Giuseppina Li Pira, Federico Ivaldi,
Paolo Moretti, and Fabrizio Manca
Volume 2010, Article ID 325720, 12 pages

MHC I Stabilizing Potential of Computer-Designed Octapeptides, Joanna M. Wisniewska, Natalie Jäger,
Anja Freier, Florian O. Losch, Karl-Heinz Wiesmüller, Peter Walden, Paul Wrede, Gisbert Schneider,
and Jan A. Hiss
Volume 2010, Article ID 396847, 9 pages

MHC Class II Binding Prediction—A Little Help from a Friend, Ivan Dimitrov, Panayot Garnev,
Darren R. Flower, and Irini Doytchinova
Volume 2010, Article ID 705821, 8 pages

SAROTUP: Scanner and Reporter of Target-Unrelated Peptides, Jian Huang, Beibei Ru, Shiyong Li,
Hao Lin, and Feng-Biao Guo
Volume 2010, Article ID 101932, 7 pages

**Assessment of the Genetic Diversity of *Mycobacterium tuberculosis* *esxA*, *esxH*, and *fbpB* Genes among
Clinical Isolates and Its Implication for the Future Immunization by New Tuberculosis Subunit Vaccines
Ag85B-ESAT-6 and Ag85B-TB10.4**, Jose Davila, Lixin Zhang, Carl F. Marrs, Riza Durmaz, and Zhenhua Yang
Volume 2010, Article ID 208371, 6 pages

**Benchmarking B-Cell Epitope Prediction for the Design of Peptide-Based Vaccines: Problems and
Prospects**, Salvador Eugenio C. Caoili
Volume 2010, Article ID 910524, 14 pages

Proposing Low-Similarity Peptide Vaccines against *Mycobacterium tuberculosis*, Guglielmo Lucchese,
Angela Stufano, and Darja Kanduc
Volume 2010, Article ID 832341, 8 pages

A Method for Individualizing the Prediction of Immunogenicity of Protein Vaccines and Biologic Therapeutics: Individualized T Cell Epitope Measure (iTEM), Tobias Cohen, Leonard Moise, Matthew Ardito, William Martin, and Anne S. De Groot
Volume 2010, Article ID 961752, 7 pages

Vaxign: The First Web-Based Vaccine Design Program for Reverse Vaccinology and Applications for Vaccine Development, Yongqun He, Zuoshuang Xiang, and Harry L. T. Mobley
Volume 2010, Article ID 297505, 15 pages

A New Method for the Evaluation of Vaccine Safety Based on Comprehensive Gene Expression Analysis, Haruka Momose, Takuo Mizukami, Masaki Ochiai, Isao Hamaguchi, and Kazunari Yamaguchi
Volume 2010, Article ID 361841, 7 pages

Mass Spectrometric Analysis of Multiple Pertussis Toxins and Toxoids, Yulanda M. Williamson, Hercules Moura, David Schieltz, Jon Rees, Adrian R. Woolfitt, James L. Pirkle, Jacquelyn S. Sampson, Maria L. Tondella, Edwin Ades, George Carlone, and John R. Barr
Volume 2010, Article ID 942365, 9 pages

Factors Associated with Hepatitis A Vaccination Receipt in One-Year-Olds in the State of Michigan, Andrea L. Weston and Kyle S. Enger
Volume 2010, Article ID 360652, 7 pages

Immunization Milestones: A More Comprehensive Picture of Age-Appropriate Vaccination, Steve G. Robison, Samantha K. Kurosky, Collette M. Young, Charles A. Gallia, and Susan A. Arbor
Volume 2010, Article ID 916525, 10 pages

Literature-Based Discovery of IFN- γ and Vaccine-Mediated Gene Interaction Networks, Arzucan Özgür, Zuoshuang Xiang, Dragomir R. Radev, and Yongqun He
Volume 2010, Article ID 426479, 13 pages

IMMUNOCAT—A Data Management System for Epitope Mapping Studies, Jo L. Chung, Jian Sun, John Sidney, Alessandro Sette, and Bjoern Peters
Volume 2010, Article ID 856842, 8 pages