

TABLE OF CONTENTS

VACCINES

- An Attenuated Duck Plague Virus (DPV) Vaccine Induces both Systemic and Mucosal Immune Responses To Protect Ducks against Virulent DPV Infection** Juan Huang, Renyong Jia, Mingshu Wang, Bing Shu, Xia Yu, Dekang Zhu, Shun Chen, Zhongqiong Yin, Xiaoyue Chen, Anchun Cheng 457–462
- Inclusion of the Bovine Neutrophil Beta-Defensin 3 with Glycoprotein D of Bovine Herpesvirus 1 in a DNA Vaccine Modulates Immune Responses of Mice and Cattle** Sarah Mackenzie-Dyck, Jennifer Kovacs-Nolan, Marlene Snider, Lorne A. Babiuk, Sylvia van Drunen Littel-van den Hurk 463–477
- Comparative Analysis of *Bacillus subtilis* Spores and Monophosphoryl Lipid A as Adjuvants of Protein-Based *Mycobacterium tuberculosis*-Based Vaccines: Partial Requirement for Interleukin-17A for Induction of Protective Immunity** Sandra C. Esparza-Gonzalez, Amber R. Troy, Angelo A. Izzo 501–508
- Evaluation of the *Borrelia burgdorferi* BBA64 Protein as a Protective Immunogen in Mice** Kevin S. Brandt, Toni G. Patton, Anna S. Allard, Melissa J. Caimano, Justin D. Radolf, Robert D. Gilmore 526–533
- Vaccination with Leptospiral Outer Membrane Lipoprotein LipL32 Reduces Kidney Invasion of *Leptospira interrogans* Serovar Canicola in Hamsters** P. C. Humphries, M. E. Weeks, M. AbuOun, G. Thomson, A. Núñez, N. G. Coldham 546–551
- Tricomponent Complex Loaded with a Mosquito-Stage Antigen of the Malaria Parasite Induces Potent Transmission-Blocking Immunity** Takeshi Arakawa, Takafumi Tsuboi, Jetsumon Sattabongkot, Kozue Sakao, Motomi Torii, Takeshi Miyata 561–569
- Toll-Like Receptor 7 Agonist Imiquimod in Combination with Influenza Vaccine Expedites and Augments Humoral Immune Responses against Influenza A(H1N1)pdm09 Virus Infection in BALB/c Mice** Anna J. X. Zhang, Can Li, Kelvin K. W. To, Hou-Shun Zhu, Andrew C. Y. Lee, Chuan-Gen Li, Jasper F. W. Chan, Ivan F. N. Hung, Kwok-Yung Yuen 570–579
- Advax-Adjuvanted Recombinant Protective Antigen Provides Protection against Inhalational Anthrax That Is Further Enhanced by Addition of Murabutide Adjuvant** Brandon Feinen, Nikolai Petrovsky, Anita Verma, Tod J. Merkel 580–586
- Development of Neutralizing Monoclonal Antibodies for Oncogenic Human Papillomavirus Types 31, 33, 45, 52, and 58** Martha J. Brown, Hanna Seitz, Victoria Towne, Martin Müller, Adam C. Finnefrock 587–593
- Pulmonary *Mycobacterium bovis* BCG Vaccination Confers Dose-Dependent Superior Protection Compared to That of Subcutaneous Vaccination** Nacho Aguilo, Ana Maria Toledo, Eva Maria Lopez-Roman, Esther Perez-Herran, Eamonn Gormley, Joaquin Rullas-Trincado, Iñigo Angulo-Barturen, Carlos Martin 594–597
- Intranasal Administration of Retinyl Palmitate with a Respiratory Virus Vaccine Corrects Impaired Mucosal IgA Response in the Vitamin A-Deficient Host** Sherri L. Surman, Bart G. Jones, Rajeev Rudraraju, Robert E. Sealy, Julia L. Hurwitz 598–601

CLINICAL IMMUNOLOGY

- Correlations between Peripheral Blood *Coxiella burnetii* DNA Load, Interleukin-6 Levels, and C-Reactive Protein Levels in Patients with Acute Q Fever** M. N. T. Kremers, R. Janssen, C. C. H. Wielders, L. M. Kampschreur, P. M. Schneeberger, P. M. Netten, A. de Klerk, H. M. Hodemaekers, M. H. A. Hermans, D. W. Notermans, P. C. Wever 484–487

Colonic Immunopathogenesis of <i>Clostridium difficile</i> Infections	Charles Darkoh, Bradley P. Turnwald, Hoonmo L. Koo, Kevin W. Garey, Zhi-Dong Jiang, Samuel L. Aitken, Herbert L. DuPont	509–517
Immune Responses of Iranian Patients with Visceral Leishmaniasis and Recovered Individuals to LCR1 of <i>Leishmania infantum</i>	Hamid M. Niknam, Firoozeh Abrishami, Mohammad Doroudian, Mosayeb Rostamian, Maryam Moradi, Vahid Khaze, Davood Irvani	518–525
Trained Immunity or Tolerance: Opposing Functional Programs Induced in Human Monocytes after Engagement of Various Pattern Recognition Receptors	Daniela C. Ifrim, Jessica Quintin, Leo A. B. Joosten, Cor Jacobs, Trees Jansen, Liesbeth Jacobs, Neil A. R. Gow, David L. Williams, Jos W. M. van der Meer, Mihai G. Netea	534–545
DIAGNOSTIC LABORATORY IMMUNOLOGY		
Serodiagnosis of Equine Leptospirosis by Enzyme-Linked Immunosorbent Assay Using Four Recombinant Protein Markers	Cuilian Ye, Weiwei Yan, Patrick L. McDonough, Sean P. McDonough, Hussni Mohamed, Thomas J. Divers, Yung-Fu Chang, Zhibang Yang	478–483
Miniaturized and High-Throughput Assays for Analysis of T-Cell Immunity Specific for Opportunistic Pathogens and HIV	Giuseppina Li Pira, Federico Ivaldi, Nadia Starc, Fabiola Landi, Franco Locatelli, Sergio Rutella, Gino Tripodi, Fabrizio Manca	488–495
Performance of the BioPlex 2200 Flow Immunoassay in Critical Cases of Serodiagnosis of Toxoplasmosis	Nicolas Guigue, Jean Menotti, Samia Hamane, Francis Derouin, Yves Jean-François Garin	496–500
Evaluation of Gamma Interferon Immune Response Elicited by the Newly Constructed PstS-1(285-374):CFP10 Fusion Protein To Detect <i>Mycobacterium tuberculosis</i> Infection	Leonardo Silva de Araujo, Fernanda Carvalho de Queiroz Mello, Nidai de Bárbara Moreira da Silva, Janaina Aparecida Medeiros Leung, Silvia Maria Almeida Machado, Isabela Gama Sardella, Renata de Moraes Maciel, Maria Helena Féres Saad	552–560
AUTHOR CORRECTION		
Safety and Immunogenicity of a Single Oral Dose of Recombinant Double Mutant Heat-Labile Toxin Derived from Enterotoxigenic <i>Escherichia coli</i>	Samer S. El-Kamary, Mitchell B. Cohen, A. Louis Bourgeois, Lillian Van De Verg, Nicole Bauers, Mardi Reymann, Marcela F. Pasetti, Wilbur H. Chen	602