

# Contents

Preface 1 <i>Hans Dieter Klenk</i>	v
Preface 2 <i>Yu-Mei Wen</i>	vii
<b>Section 1. Bacteria</b>	<b>1</b>
<b>Introduction and Comments: Studies on Bacteria by Molecular and Experimental Approaches</b> <i>Yu-Mei Wen</i>	<b>3</b>
1.1. Cloning, Expression and Immunological Evaluation of a Novel Protein Belonging to the OmpA Family in <i>Leptospira interrogans</i> <i>Wei Lin, Hong-Liang Yang, Yang Yang, Bao-Yu Hu, Li-Zhi Tan and Xiao-Kui Guo</i>	5
1.2. Surveillance of Leptospirosis and the Murine Reservoirs in China, 2005 <i>Xiu-Gao Jiang, Xiang-Yan Zhang, Wen-Jun Zhong, Yi-Xin Nie, Wen-Wu Yin, Xiu-Wen Li and Xiao-Kui Guo</i>	13
1.3. Cloning and Expression of the Histidinol Dehydrogenase Gene from <i>Mycobacterium tuberculosis</i> H37Rv and Properties of the Recombinant Histidinol Dehydrogenase <i>Rui-Liang Jin, Rui-Qing Liu, Hong-Jun Wang, Jian Cao, Sheng-Feng Xu, Li-Juan Chunyu, Yun-Min Xu and Hong-Hai Wang</i>	21

1.4. Cloning and Sequence Analysis of the <i>fbps</i> Gene of <i>Streptococcus suis</i> Type 2	31
<i>Li-Yun Sun, Hong-Jie Fan and Cheng-Ping Lu</i>	
1.5. Effects of EnvZ Histidine Kinase Inhibitors on the Virulence of <i>Shigella flexneri</i>	39
<i>Ming-Liang Chen, Qi Wang, Sheng-Fu Dong, Zhi-Qiang Qin, Jian Zhang, Cong Han, Xia Cai, Xu Shen and Di Qu</i>	
1.6. Detection of Virulence and Genes for Viable but Nonculturable (VBNC) <i>Campylobacter jejuni</i>	47
<i>Jie-Lin Yang, Tong-Hai Dou, Ming Gu and Zhong-Liang Wu</i>	
<b>Section 2. Viruses</b>	<b>55</b>
<b>Introduction and Comments: Trends on Virus Research in China</b>	<b>57</b>
<i>Yu-Mei Wen</i>	
2.1. Transcriptomic and Proteomic Studies on HBsAg-Positive Transgenic Mouse Livers Suggest Alterations in Carbohydrate, Lipid and Amino Acid Metabolism	59
<i>Jun Ren, Chao Zhao, Cai-Yun Fang, Zhang-Mei Ma, Peng-Yuan Yang and Yu-Mei Wen</i>	
2.2. Large-Scale Polymorphism Analysis of Hepatitis B Virus Envelope Protein using Bioinformatics	71
<i>Zhe Chen, Yue Zhu, Yi-Xue Li and Yu-Mei Wen</i>	
2.3. Studies on the Inactivation of Hepadnavirus in Blood Components by Using a Duck Hepatitis B Virus-Infected Animal Model	83
<i>Wen-Yi Wang, Yu-Wen Huang, Ping Lu, Jian-Er Long, Qin Mo, Bing Ling, Xiao-Ling Han, Sheng-Fu Dong, Di Qu and Kai-Cheng Qian</i>	

2.4. Sequence Analysis of the SH Gene and Its Flanking Region of a Mumps Virus Strain (SP Strain) <i>Shao-Hui Ma, Rong-Song Zhang, Long-Ding Liu, Jing-Jing Wang, Li-Chun Wang, Wen-Jun Yang, Yan Liang, Zi-Jiang Yang and Qi-Han Li</i>	93
2.5. HIV-Related Knowledge, Attitudes and Behaviors Among Policewomen and Female Prisoners from a Behavior Correction Center <i>Wei Jiao, Ying-Jie Zheng, Xue-Cai Wang, Ai-Qin Xu, Jian-Ping Gu, Jian-Fu Zhu, Yi-Han Lu, Fa-Di Wang and Qing-Wu Jiang</i>	101
<b>Section 3. Laboratory Medicine</b>	<b>111</b>
<b>Introduction and Comments: Advances and Trends in Diagnostic Microbiology in China</b> <i>Yi-Wei Tang</i>	<b>113</b>
3.1. Detection of SARS-Associated Coronavirus Infection by Reverse Transcriptase-Polymerase Chain Reaction, Indirect Immunofluorescence Assay and Enzyme-Linked Immunosorbent Assay <i>Zhi-Tong Zhou, Wei-Lun Jiang, Zheng-Hong Yuan, Fang Shen, Di Qu, Shi-Min Gu, Long-Ting Fu and Ren-Fang Zhang</i>	117
3.2. Bacteriological and Molecular Identification of a Sporadic Case of Brucellosis in Shanghai <i>Cheng-Yan Meng, Fei-Yi Ruan, Jian-Qiang Lei, Jia-Lin Jin and Wen-Hong Zhang</i>	127
3.3. A PCR-Capillary Electrophoresis Method Detects and Differentiates Biovars of <i>Ureaplasma urealyticum</i> <i>Shi-Hang Zhou and Zhuo-Ran Zhang</i>	135
3.4. Implications of CD64 in Early Diagnosis of Neonatal Septic Cases <i>Rong Zhang and Chao Chen</i>	143

3.5. Correlation Between the MICA*A5.1 Allele and <i>Chlamydia trachomatis</i> Infection <i>Bing Mei, Kun Du, Zhi Huo, Fu-Yan Wang, Shu-Hui Ma and Ping Yu</i>	149
3.6. Surveillance of Human Infections with Avian Influenza in Guangzhou During 1997–2006 <i>Peng-Zhe Qin, Yu-Lin Wang, Biao Di, Xiu-Zhen Zhou, Yang Liu, Yan-Shan Cai, Ji-Chuan Shen, Yu-Fei Liu, En-Jie Lu, Duan-Hua Zhou and Ming Wang</i>	155
3.7. Clinical Significance of Human Cytomegalovirus pp65-Specific Antibodies for Verification of HCMV Primary Infection <i>Qian Liu, Jing-Xian Chen and Ming-Li Wang</i>	163
3.8. Analysis of Indeterminate HIV Western Blot Profiles <i>Kai Gao, Yan Li, Cai-Yun Liang, Hui-Fang Xu and Zhi-Gang Han</i>	171
3.9. Detection of Multidrug-Resistant <i>Mycobacterium tuberculosis</i> by Sputum Smears <i>Shu-Yan Wu, Guo-Hao Gu and Rui Huang</i>	179
<b>Section 4. Clinical Medicine</b>	<b>185</b>
<b>Introduction and Comments: A Glimpse of Clinical Infectious Diseases in China in the New Millennium</b> <i>Shan Lu</i>	<b>187</b>
4.1. The Role of Lower Airway Bacterial Colonization at the Stable Stage of Chronic Obstructive Pulmonary Disease <i>Min Zhang, Xin Zhou, Xin-Yi Zhang and Xing Ding</i>	191
4.2. Gene Sequence Analysis of the Norovirus Detected in Diarrhea Specimens from Children in a Surveillance Hospital in Shanghai <i>Zheng Teng, Xi Zhang, Kang-Sheng Wen, Jun-Jie Shao and Bai-Hui Zhao</i>	201

4.3. Clinical Analysis of 77 Measles Patients <i>Dong-Mei Shi and Qing Xie</i>	209
4.4. Analysis of Clinical Characteristics in 77 HIV-Infected Individuals <i>Qi-Ming Gong, De-Qi Qiu, Zhi-Meng Lu and Xin-Xin Zhang</i>	215
4.5. Etiology and Clinical Characteristics of Children Hospitalized for Acute Lower Respiratory Tract Infection in Winter <i>Jun Shen, Qi-Rong Zhu, Xiao-Hong Wang and Chuan-Qin Wang</i>	223
4.6. Infectious Disease Risks Associated with the Sichuan Earthquake: Experiences in Treatment of Earthquake Wound Infections <i>Xin Zhao, Wen-Sheng Xu, Jun-Xue Wang, Xiao-Hui Miao and Yu-Dong Gu</i>	231
<b>Section 5. Immunology and Vaccinology</b>	<b>239</b>
<b>Introduction and Comments: Exploring Host Immune Responses to Microbes</b> <i>Shan Lu</i>	<b>241</b>
5.1. Detection of Dendritic Cell Subsets in Peripheral Blood and Levels of IL-12 and IFN- $\gamma$ in Serum of Patients with Syphilis <i>Li-Xiong Zheng, Si-Ning Fang, Fang-Juan Li, Xiao-Hong Du, Qiu-Sheng Tong, Ya-Jie Zheng, Hui Qi and Xin-Gen Wang</i>	245
5.2. Analysis of Antigenicity and Immunogenicity of the Receptor-Binding Domain of SARS-CoV <i>Ping Zhao, Jin-Shan Ke, Min Liu, Wei Pan and Zhong-Tian Qi</i>	251

5.3. Alterations in Chemokine Expression in PBMCs During and After Interferon- $\alpha$ Therapy in HCV Chronic Infections <i>Yun-Wen Hu, Jian Wang, Ji-Ming Zhang, Yi Xie and Zheng-Hong Yuan</i>	257
5.4. A Summary of Immunogenicity Studies on DNA Vaccines Expressing the Hepatitis B Virus Core and Surface Antigens as Tested in Both Murine and Nonhuman Primate Models <i>Yi-Ping Xing, Zu-Hu Huang, Shi-Xia Wang, Jun Li and Shan Lu</i>	267
List of Contributors	287
Index	317