

TABLE OF CONTENTS

Emerging and Reemerging Viral Pathogens Volume 2

1. General introduction of emergence and reemergence pathogens: emerging and reemerging viral pathogens

My Mustapha ENNAJI

2. Crispr/cas9 genome editing technology against emerging and re-emerging virus

EL-ALIANI A, EL Mallali Y., EL MZIBRI M, ENNAJI M.M

3. Infectious bronchitis virus (ibv) in poultry: molecular epidemiology and factors leading to the emergence and re-emergence of novel strains of ibv

Youssef ENNAJI, Khadija KHATABY, My Mustapha ENNAJI

4. Molecular modeling of Major Structural Protein Genes of Avian Coronavirus: Infectious Bronchitis Virus Mass H120 and Italy02 strains

Khadija Khataby, Yassine Kasmi, Amal Souiri, Chafiqaloutfi and My Mustapha Ennaji

5. Biological databases in virology

Pramodkumar Pyarelal Gupta, Virupaksha Ajit Bastikar, Santosh Subhash Chhajed, Shanker Lal Kothari

6. Involvement and roles of long non coding rnas in the molecular mechanisms of emerging and reemerging viral infections

Maryame LAMSISI, M.M. ENNAJ

7. Scientific advances in the diagnosis of emerging and re-emerging viral human pathogens

Rahma Ait hammou, M. Benhessou, H.Bessi, M.M. Ennaji

8. Introduction to computational and bioinformatics tools in virology

Pramodkumar Pyarelal Gupta, Yassine Kasmi, Črtomir Podlipnik

9. Designing antiviral substances targeting the ebola virus vp24 protein

Federico Dapiaggi, Stefano Pieraccini, Donatella Potenza, Francesca Vasile, Črtomir Podlipnik

10. Application of nanodiagnosics in viral infectious diseases

Rahma Ait hammou, M. Benhessou, M.M. Ennaji

11. Baculovirus-derived vectors for immunization and therapeutic applications

M. Laura Fabre, Paula N. Arrías, Tomás Masson, Matías L. Pidre and Víctor Romanowski

12. Recombinant veterinary vaccines against rabies: state of art and perspectives

Del Médico Zajac María Paula, Garanzini Débora, Pérez Oscar Ramón, Calamante Gabriela

13. Epidemiology and ecology of emerging viruses in two freshwater lakes of the northern hemisphere

Mahi M. Mohiuddin, Herb E. Schellhorn

14. Global epidemiology and genetic variability of rabies viruses

Darkaoui Sami, My Mustapha Ennaji

15: Reemerging virus: case of norovirus

Y. Amraouza, M.M. Ennaji, J. Hafid

16. Risk assessment and biosecurity considerations in control of emergent plant viruses

Amal SOUIRI, Khadija Khataby, Yassine Kasmi, Mustapha Zemzami, Saaid Amzazi, and Moulay Mustapha ENNAJI*

17. Human immunodeficiency virus as emergent viral infection with the presence of the immune adaptive response: viral dynamics

Karam Allali, My Mustapha Ennaji

18. Mathematical modeling in virology

Khalid Hattaf, Noura Yousfi.