JIAXING SONG
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EDUCATION

DEPARTMENT OF BIOMEDICINE, UNIVERSITY OF BERGEN
Master of Biomedical Science
Bergen, Norway August 2021-Now

- Master's Project (ongoing): *Live-cell imaging of Arc protein dynamics and Arc-regulated AMPAR trafficking in synaptic plasticity*

EIDGENÖSSISCHE TECHNISCHE HOCHSCHULE ZÜRICH (ETH Zurich)
Summer school: *Excite Interdisciplinary Summer School on Biomedical Imaging*
ETH Zurich, Switzerland September 5-16, 2022

THE ANIMAL SCIENCE SCHOOL, HENAN UNIVERCITY OF SCIENCE AND TECHNOLOGY
Bachelor of Animal medicine
Luoyang, China 2016 - 2020

- Undergraduate thesis: *Isolation and identification of avian adenovirus type 4*

RESEARCH EXPERIENCE

SHENZHEN PEOPLE'S HOSPITAL—Translational Medicine Collaborative Innovation Center
(JINNINGYI ACADEMICIAN VIROLOGY RESEARCH TEAM) **Research Assistant**
Shenzhen, Guangdong, China June 2020-June 2021

- Involving in the post-doctoral project: the Construction of SARS-COV-2 Proliferation Defective Replicon and Establishment of Cell Model of SARS-COV-2 and its Application in the Screening of Antiviral Drugs.
- Involving in the project of Construction of Infectious Molecular Clone of Dengue Virus 2 (DENV-2).
- Molecular Epidemical Study of Influenza Cases in SHENZHEN PEOPLE'S HOSPITAL in 2018 & 2019.

ZHEJIANG ACADEMY OF AGRICULTURAL SCIENCES
(INSTITUTE OF ANIMAL HUSBANDRY AND VETERINARY SCIENCE) **Intern (Research Assistant)**
Hangzhou, Zhejiang, China April 2019-July 2019

- Involving in: isolate and culture duck reovirus, proficient in cell line culture.
- The whole-genome sequencing of two Muscovy duck reovirus strains was basically completed.
- To study the detection method of reovirus (Blocking ELISA), which was used to monitor the antibody titer of reovirus in local breeding enterprises.

PREVENTIVE VETERINARY MEDICINE LABORATORY
(HENAN UNIVERCITY OF SCIENCE AND TECHNOLOGY) **Student (Laboratory Assistant)**
Luoyang, Henan 2017-2019

- Investigation of the Subcellular Location of Transmissible Gastroenteritis Virus Protein ORF7 and its Effect on Viral Replication.
- Establishment of Reverse Genetics Systems for Newcastle Disease Virus.
- Construction of Live Vaccine to Newcastle Disease Virus - Avian Adenovirus.

PROFESSIONAL SKILLS

- **Imaging**: SP8 Confocal microscopy, Single molecule localization microscopy (SMLM), Immunofluorescence technique, Single molecule tracking on live cell (Quantum Dot), Proximity Ligation Assay (PLA).
- **Protein**: Extraction of synaptosome and synaptoneurosome, Co-immunoprecipitation, Western Blot, Protein Quantification (BCA), Coomassie blue staining, Blocking Elisa, etc.
- **Cells**: Hippocampus Dissection and Primary neuron culture, Viral culture, Cell transfection, ShRNA Knock
- Down in neuron, Cell line culture, Chicken embryo subculture, etc.
- **Molecular**: Molecular cloning technology, such as plasmid construction (DNA ligation and Identification), Extraction of DNA/RNA, DNA Electrophoresis, (q)PCR, Virus isolation and identification, Phylogenetic tree analysis, Sequence Alignment, etc.

PUBLICATION

- The Subcellular Location of Transmissible Gastroenteritis Virus Protein ORF7 And Its Effect on Viral Replication. Chinese Journal of Preventive Veterinary Medicine. Vol.42 No.6:543-548 HE Lei1*, DONG Ling-juan2,3, ZHANGYan-ming2*, SONG Jia-xing1, YU Chuan1, YU Zu-hua1, ZHANG Chun-jie1
- My master's project will be part of paper (in preparation for Cell Reports in 2023): **Arc/Arg3.1 facilitates AMPAR removal from the synapse via lateral diffusion**. I will be the Co−first author.