Nijia Wang

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Education

Liaoning University of Traditional Chinese Medicine Bachelor 09/2010-07/2015
Research Area: Pharmaceutical analysis

Liaoning University of Traditional Chinese Medicine Master 08/2016-06/2019
Research Area: Pharmaceutical analysis

Hong Kong Baptist University Ph.D. 07/2022- present
Research Area: The application of microfluidics in aptamer-based drug discovery

Employment

Southern University of Science and Technology Research Assistant 07/2019- 07/2020
Research Area: neuronal development

Hong Kong Baptist University Research Assistant 07/2020- 07/2022
Research Area: The application of microfluidics in aptamer-based drug discovery

Research Achievements

1. 3D microfluidic in vitro model and bioinformatics integration to study the effects of Spatholobi Caulis tannin in cervical cancer. — Scientific Reports IF=5.5
2. The pharmacological effects of Spatholobi Caulis tannin in cervical cancer and its precise therapeutic effect on related circRNA. — Mol Ther Oncolytics IF=6.3
3. The m6 A Readers YTHDF1 and YTHDF2 Synergistically Control Cerebellar Parallel Fiber Growth by Regulating Local Translation of the Key Wnt5a Signaling Components in Axons. — Advanced Science IF= 17.5
4. Facilitation of axonal transcriptome analysis with quantitative microfluidic devices. — Lab Chip IF= 7.5
5. The Application of Microfluidic Technologies in Aptamer Selection. — Front Cell Dev Biol IF= 6.0

Skills and Certificates

1. Routine molecular biological work such as isolation of nucleic acids (DNA and RNA), real-time quantitative polymerase chain reactions (RT PCR), protein analysis assays and immunofluorescence microscopy
2. Collecting and processing tissue samples from various animal models
3. Optimize and execute a variety of HPLC/UPLC/LCMS methods to assess the purity and composition of drugs
4. Knowledge of photolithography mask design and fabricate micro-structure
5. Experience on using PDMS, SU8, dry etching, wet etching and physical vapor deposition
6. Creation and development of novel micro and nanofluidic devices, either for theranostic purposes (Lab-on-a-Chip and microTAS systems) or for human physiology, drug screening, and cell-level interactions studies (Organ-on-Chip systems)
7. Design and Prepare microfluid-based different neurons interactive biological chip
8. Bio-MEMS for separation axon and detection of biomarkers

Awards&Honor

2018 National Scholarship 2018
School Scholarship 2016-2017
School Scholarship 2017-2018
School Scholarship 2018-2019