

Personal Particulars

Name: David, Wong Wai Hung

E-mail: waihungdavid@hotmail.com

Contact number: 5377 6439 (mobile)

2679 3793 (home)

Address: Flat 2604, Ching Chak House, Ching Ho Estate, Sheung Shui, New Territories

Education

Postgraduate studies	The Chinese University of Hong Kong Master of Philosophy in Molecular Biotechnology (2013-2017)
Undergraduate studies	The Chinese University of Hong Kong Bachelor of Sciences with Second Class Upper Division Honor Major in Biochemistry
Secondary studies	Tin Ka Ping Secondary School Form One to Form Seven (2003-2010)

Qualifications

1. Hong Kong Advanced Level Examination (2010)

Chinese Language and Culture (AS level)	B
Use of English (AS level)	D
Chemistry (AL)	B
Physics (AL)	B
Pure Mathematics (AL)	D

2. Hong Kong Certificate of Education Examination (2008)

Chinese Language	5
English Language	5
Biology	B
Chemistry	B
Physics	B
Mathematics	A
Additional Mathematics	B

Work Experience

MAR 2025 - now	Senior Technical Officer (full-time) (Hong Kong Baptist University)
MAR 2024 – FEB 2025	Technical Officer (full-time) (Hong Kong Baptist University)
JUL 2020 – FEB 2024	Quality Control Supervisor (full-time) (Xellera Therapeutics Asia Limited)
AUG 2019 – JUL 2020	Research Assistant (full-time) (Novoheart Limited)
JUL 2017 – JUN 2019	Quality Control Technician (full-time) (BioCell Technology Limited)
MAR 2017 – JUN 2017	Customer Service Executive (full-time) (LNE Asia Limited)
DEC 2015 – JUN 2016	Junior Research Assistant (full-time) (The Chinese University of Hong Kong)
JUL 2011 – AUG 2011	Population Census Temporary Field Worker (part-time) (Census and Statistics Department)

Laboratory Research Techniques

1. Western Blotting
2. Mammalian, plant, and bacterial cell culture and cryopreservation
3. Plasmid amplification and extraction using bacterial transformation
4. Mammalian and plant proteins extraction and purification
5. Polymerase Chain Reaction (traditional and real-time)
6. 2-Dimensional Gel and DNA Gel Electrophoresis
7. Mass spectrometry samples preparation
8. Laboratory crops growing (soybean)
9. Stem Cell Culture, differentiation, and cryopreservation
10. Flow Cytometry
11. Fluorescence Microscopy

Working Skills

Routine GMP

- Conducted and supervised in daily GMP operations (laboratories hygiene, tidiness, equipment qualification, routine maintenance, calibration), testing skills, testing method validation and QC documentation, both internally and externally
- Conducted Warehouse and temperature-controlled devices mapping
- Hands-on experience of handling different equipment qualification and operation, e.g., Automated Microbial Detection System, Flow Cytometer (Beckman Coulter FC500 and CytoFLEX, Miltenyi Biotec MQ10, BD FACSVerse, Thermo Attune), Thawing Machine, Microplate Reader, Nanodrop Spectrophotometer, Cell Counter, qPCR System, PCR Machine
- Conducted fire alarming system and fire extinguishers annual maintenance
- Supervised and assisted in training of QC staff in daily GMP operations (laboratories hygiene, tidiness, equipment qualification, routine maintenance, calibration), testing skills, product testing method validation and QC documentation, both internally and externally
- Established collection practice for buffy coat samples and apheresis samples from external suppliers
- Developed and conducted Computer System Validation on complex analytical equipment

GMP Document

- Drafted and reviewed GMP documents, including but not limited to Standard Operating Procedures, User Requirement Specification, Design Qualification and Installation Operation Performance Qualification protocols and reports (e.g., flow cytometer, thawing machine, microscope and cell counter), test validation protocols and reports, test SOPs, Pharmaceutical Quality System (PQS) activities including change controls
- Prepared for PD and QC Departments process related GMP documents, e.g., Control Strategies of different products, contamination control strategies
- Assisted in DoH documents preparation: application of approval-in-principle and manufacturing license inspection by reviewing and answering all QC-related questions and answered questions for internal self-inspection and external (DoH) inspection
- Reviewed IOQ documents and certificates provided from vendors on the fulfillment of qualification requirements
- Assisted to review QC documents and other associated GMP documents

QC Testing

- Designed tests with reference to different standards: pharmacopoeias, ICH, and FDA
- Prepared for College of American Pathologists (CAP's) Laboratory Accreditation Program
- Developed and conducted sterility test using Automated Microbial Detection System (BacT/ALERT)

Cord and cord blood-related, hMSC-related

- Developed and conducted manual viable cell counting and automatic hematology counting using automated machine
- Conducted Flow cytometry of cord blood samples and hMSC samples
- Conducted Endotoxin test using Gel-Clot method
- Developed and conducted manual nucleated red blood cell counting
- Developed and conducted Stem cell differentiation and colony-forming unit assay

Culture and Differentiation of stem cells

- Routine maintenance of human Embryonic Stem Cell (hESC)/ human Induced Pluripotent Stem Cell (hiPSC) line, induced to supply and transport cardiomyocytes (CM) to support different projects and collaborators
- Conducted regular quality control tests of genetic contents of CM, reports preparation and Cell Proliferation record keeping, as well as other molecular tests related to cell culturing and differentiation
- Assisted in establishment of a cardiomyocytes cryopreservation protocol to obtain CM with > 70% cell viability
- Validation of the cryopreserved CM by assessing the morphology, time to retain beating and Cardiac Troponin T (cTnT) and α -actin structure by immuno-fluorescent staining
- Helped to train new staff for the above activities

Advanced Therapeutic Product (CAR-T & iPSC)-related

- Involved in CAR-T engineering batch testing
- Prepared outsourced testing management (e.g., ATP starting materials viral test, PD raw materials supplier evaluation and contract analysis provider auditing)
- Ensured in-house & outsourced QC tests readiness
- Discussed with seniors and consultants to ensure test method validations complying different standards and needs
- Supported ITF-project – iPSC haplobank (Sample transport validation/QC tests outsourced)
- Drafted Stability Test of starting materials and finished products Validation

Protocol

- Developed and performed flow cytometry and cell viability testing on CAR-T related starting materials (e.g., buffy coat samples, apheresis samples, and in-house prepared surrogate samples) according to different standards
- Drafted Technical Transfer Protocol for Flow Cytometry experiments
- Coordinated iPSC R&D runs and performed testing: immune cell composition, CD34+ profile, pluripotency markers, 3-germ layer
- Investigated and modified protocols for frozen products (with DMSO)

QC Microbiology

- Developed and conducted Growth Promotion test of solid and liquid growth mediums (Sterility bottles & agar plates)
- Developed and conducted Gram staining
- Conducted Particle counting using (Handheld and Portable) Particle Counter (TSI and Beckman Coulter) and microbial counting (Active sampling by air samplers, settle plate and contact plate)
- Ensured QC's readiness to conduct the environmental monitoring & media fill containers evaluations (including outsourcing) for Aseptic Process Simulation
- Participated in cleanroom qualification, routine environmental monitoring (EM) & media fill process
- Participated in official Aseptic Process Simulation for EM and visual inspection
- Responsible for outsourced FITR analysis testing to Nelson Labs on samples identified with particles and fibers

Laboratory Operation

Laboratory Relocation

- Involved in purchasing new essential equipment and utilities in new laboratory
- Assisted in planning and arranging the relocation and involved in packaging process for laboratory and office
- Arranged the check-up of the essential equipment and tackled construction problems after relocation

Laboratory Routine Maintenance

- Inventory keeping and purchasing of equipment, service, reagents, and consumables, as well as quotation, invoice, and payment handling
- Prepared budget and grant (ITC: Enterprise Support Scheme, ESS) records and reports, assisted in financial auditing
- Scheduled equipment and laboratory utilities daily maintenance
- Ensured laboratory safety

- Assisted in filming and touring activities for guests, internal and external parties
- Arranged biological waste collection

Supervising Experience

- Trained and supervised new staff on GMP document preparation, routine GMP activities and testing
- Conducted junior staff probation reviews
- Interviewed new QC Scientists and Officers