MICHAEL W. DONG, Ph.D.

Norwalk, CT 06851 michael@mwd-consulting.com

SUMMARY

Pharmaceutical Development and Quality Control Scientist, Manager, and Consultant. Subject Matter Expert in Liquid Chromatography (HPLC) and Pharmaceutical Analysis.

A scientist with extensive hands-on experience in HPLC, UHPLC, LC/MS, GC, and chiral separations for small molecule drug substances and drug products. Experienced CMC analytical team lead for multiple early- and late-stage development projects. Pioneered Fast LC, rapid method development approaches, including the use of generic gradient (u)HPLC, and high-pH methods. Authored methods, SOPs, CMC sections of INDs and NDAs, 130+ publications, and 4 books including a best-seller book in HPLC. Strong supervisory, mentoring, problem-solving, consulting, project management, and training skills.

Areas of specialization:

- Method development/validation
- Consulting (HPLC, pharm. Anal.)
- HPLC/UHPLC, GC, MS

- Drug development leads (CMC)
- Writing, training, regulatory filings
- Empower, ChemStation (OpenLab)

EXPERIENCE

MWD CONSULTING, NORWALK, CT

2015-present

Principal Consultant. Provides expert training and consulting services in HPLC/UHPLC, pharm analysis, HPLC method development and validation, CMC, and drug quality at mwd-consulting.com; Clients include pharmaceutical companies, USP, CROs, and instrument companies.

GENENTECH, INC, S. SAN FRANCISCO, CA

2007-2015

Senior Scientist, Small Molecule Analytical Chemistry and Quality Control

- Developed chiral/achiral HPLC, LC/MS, GC, and IC methods for drug substances and products to support multiple projects in small molecule drug development, including APIs with multiple chiral centers.
- Supervised two to six analysts; served as analytical lead for five early-stage development oncology projects, including CMO oversights and IND/IMPD filings.
- Supported phase 0 -2 drug substance and product process development (IV, capsules, and tablets).
- Managed capital budgets, recruiting, process chem. lab support, automation, and new technologies.

SYNOMICS PHARMA (CRO), WAREHAM, MA Research Director

2005-2007

- Study director for 10+ clients' research GLP and GMP projects.
- Conducted HPLC and GC method development/validation for drugs and consumer products.

PURDUE PHARMA TECHNICAL CENTER, ARDSLEY, NY

1999-2005

Senior Principal Scientist, Research Fellow/Group Leader, Analytical Development

Managed group of 4-6 analysts conducting method development and validation of assay and impurities methods as well as dissolution/stability testing to support solid and liquid formulation development and clinical supplies testing, including herbal OTC products.

- Developed stability-indicating HPLC methods for complex drug products from natural materials.
- Pioneered high-pH MS-compatible ICH methods for drug products with two APIs (opioids).

PERKIN-ELMER CORPORATION/APPLIED BIOSYSTEMS, NORWALK, CT 1980-1999 Senior Application Chemist - Staff Scientist, Liquid Chromatography Business Unit

Developed applications, systems, and columns for pharmaceutical and bioscience applications. Directed programs in microbore LC, and system qualification. Designed Fast LC columns/applications, LC systems for automated method development, dissolution analysis, laboratory robotics, amino acid analysis, fast protein analysis, PCR purification/quantitation, and peptide mapping.

- Developed HPLC systems for analysis of PAHs, carbamates, vitamins, sugars, and organic acids.
- Pioneered Fast LC (short 3-µm 3x3 columns) that increased analysis speed by 3-5 folds.

Additional relevant experience: Applications chemist, HPLC product marketing specialist for the Far East, chemical/environmental research, and a post-doctoral fellowship in cancer institute.

PUBLICATIONS

130+ publications (>90 as first author), four books including a best-seller in HPLC, and regulatory filings (Addendum list available).

AWARDS AND LANGUAGES

- NIH Research Grant "Occurrence, tumorigenicity, and metabolism of quinolines."
- U.S. Patent Apparatus for periodically monitoring of a plurality of samples (dissolution testing).
- Genentech outstanding employee awards (2010, 2011).
- Fluent in Chinese (written and spoken: Mandarin, Cantonese, and Shanghainese); Knowledge of German (3 y) and Japanese (1y).

EDUCATION AND CERTIFICATION

Certificate in Biotechnology, U. C. Santa Cruz (2010) Ph.D., Analytical Chemistry, City University of New York Bachelor of Science, Chemistry, Brooklyn College

AFFILIATIONS AND OTHER

- Amer. Chem. Soc. (ACS career consultant), Toastmasters International (ATM Silver, President 2005), Chinese Amer. Chromatogr. Assoc. (board), Eagle Scout, Conn. Sep. Sci. Council (CSSC).
- Advisory board member of LCGC and Amer. Pharm. Review; Columnist for LCGC (2013-present).
- U.C. Santa Cruz Extension instructor (Drug Quality 2012-17).
- Software: M.S. Office, HTML, Empower, ChemStation, MassHunter, Excalibur, LIMS (Labware), DryLab, S-Matrix Fusion, TrackWise, DocLink, IDBS (electronic lab notebook).