

GlycoBiome Biotech Limited - Postdoc for Dry Lab

Company Name: GlycoBiome Biotech Limited

Position: Postdoc for Dry Lab

Posting Date: 25 Aug 2026

Job Title	Postdoc for Dry Lab
Job Description:	1. Multi-omics Integrative Analysis Conduct in-depth mining of metagenomic and metabolomic data, with a focus on analyzing the interaction between natural product macromolecules (e.g., polysaccharides, peptides) and the microbiome. 2. Biotransformation Pathway Research Employ bioinformatic approaches to investigate microbial biotransformation of natural products, predict metabolic pathways and generated secondary metabolites. 3. AI & Algorithm Modeling Build biotransformation models and community ecology models via machine learning and artificial intelligence algorithms, and screen key functional strains or enzymes that drive macromolecule metabolism. 4. AIDD and New Drug Development Carry out Artificial Intelligence-Driven Drug Discovery (AIDD), focusing on natural product-derived new drug small molecule design, target prediction, pharmacodynamic evaluation and active molecule identification. 5. Biomarker Discovery Identify microbial biomarkers associated with drug metabolism and clinical efficacy to provide critical predictive indicators for new drug development. 6. Database and Pipeline Construction Develop and maintain databases related to natural product macromolecules and microbial metabolism, and build automated, standardized bioinformatic analysis pipelines. 7. Programming and Tool Development

	Proficiently operate Linux environments, implement algorithms and perform data visualization using Python, R or other programming languages.
Requirements:	1. Academic Background and Qualifications Doctoral degree in Bioinformatics, Pharmacy, Computer Science, Mathematics or other related disciplines with at least 3 years of in-depth research experience in microbiome, AIDD, AI models and algorithms. Candidates with independently developed algorithms or analytical tools (e.g., published software packages, high-impact algorithm papers) are preferred. 2. Programming & Technical Competencies Must be proficient in Linux environments; skilled in Python and R (or other high-performance programming languages), with the capability to independently construct complex bioinformatic pipelines. 3. Professional Knowledge Reserve Familiar with multi-omics data integration, pharmacokinetics (especially microbe-mediated metabolism), or computational structural biology. 4. Research Literacy Possess strong logical thinking and literature research capabilities in both Chinese and English, and stay abreast of cutting-edge technological advances in the field of "natural products – gut microbiota – host health". 5. Teamwork Spirit Strong team player capable of efficient communication with Wet Lab teams to jointly advance wet-dry integrated research projects. 6. Language: Fluent in Chinese and English communication, excellent in written English

Application method: Please send your resume to: winnie.zhou@ABIC.HK