

EDUCATION	<p>THE UNIVERSITY OF NEW SOUTH WALES, SYDNEY, AUSTRALIA 2008-2013</p> <p>Bachelor of Science, Biotechnology (Honours II Div I, 83%). Approximately equivalent to US 3.6-4.0¹</p>
EXPERIENCES	<p>RESEARCH ASSISTANT / Antimicrobial Resistance Project OCT 2013 - CURRENT</p> <p>Department of Microbiology, SEALS Pathology, NSW HEALTH</p> <ul style="list-style-type: none"> • Maintained and exported 14 years of microbiological data from laboratory information system into a relational database model. Generated data visualisation with several different parameters. • Generated area level and hospital level cumulative antibiograms to monitor antimicrobial resistances according to Australian standard. • Assisted on various data requests for clinicians and researchers. <p>RESEARCH STUDENT FEB - NOV 2012</p> <p>Neilan Laboratory of Microbial and Molecular Diversity, UNSW</p> <ul style="list-style-type: none"> • Generated DNA libraries of cyanobacterial isolates, bioinformatically elucidated cyanobacterial gene clusters and performed heterologous expression of a specific gene cluster in <i>Escherichia coli</i>. • Replenishing materials, laboratory instrument and general aspects of laboratory maintenance. • Responsible for various consultancy projects, laboratory database, information systems and website.
PUBLICATIONS & PRESENTATIONS	<p>R Sinha, T Davis, L Pearson, J Muenchhoff, R Pratama, A Jex, M Burford, and B Neilan. Comparative genomics of <i>Cylindrospermopsis raciborskii</i> strains with differential toxicities. BMC Genomics 2014 15:83. doi:10.1186/1471-2164-15-83. Presented in: 9th International Conference on Toxic Cyanobacteria. South Africa, 2013</p> <p>B Neilan, A Roberts, R Pratama, L Pearson, and J Muenchhoff. Engineering cyanobacteria and their toxin biosynthesis pathways for unnatural production. Presented in: 14th International Symposium on Phototrophic Prokaryotes. Portugal, 2012</p> <p>P Taylor, R Pratama, A Eigenstetter, S Winter, K Clezy, M Piza, G Rubin, A Santangelo. Data analysis of antimicrobial resistance (AMR) in South East Sydney and Illawarra region of New South Wales, Australia from 2001 to 2014. Presented in: 9th Healthcare Infection Society International Conference. Lyon, 2014</p>
SKILLS	<p>Bioinformatics and Biostatistics NCBI tools, sequence analysis, primer design, genomic data analysis and comparison, Roche 454 and AB 3730 sequencer, gene mapping and annotations, phylogenetics, various statistical analysis and programs.</p> <p>Microbiology, molecular biology, genetic engineering and biochemistry General microbiology tests, media preparations, DNA/RNA extractions and purifications, PCR, RT-PCR, qPCR, electrophoresis, molecular cloning, plasmid preparations, spectrophotometry, cell culture, natural product extractions, compound separation and purification, organic chemistry techniques, analytical chemistry (NMR, infrared spectroscopy, LCMS), and chromatography.</p> <p>Computers, IT, and Networking <i>Star sign denotes skill level</i></p> <ul style="list-style-type: none"> • <i>Programming and scripting</i>: Python*, PHP***, Javascript***, HTML/CSS***, Visual Basic**, Bash and command line scripts*, L^AT_EX**, R*, Mathematica*. • <i>Database programming</i>: SQL*** and NoSQL** environment e.g. MySQL***, PostgreSQL*, MSSQL**, MongoDB**, Google BigQuery*, Microsoft Access***, Teradata* • Microsoft Office*** including Macro**, VB Scripting**, and Excel PivotTables***. Business Intelligence and visualisation: Microsoft BI**, Google charts** • <i>Cloud based architecture</i> e.g Amazon Web Services***, Google Cloud Platform**, Office 365*. Website management and server handling**.

RELEVANT COURSEWORKS	<ul style="list-style-type: none"> Organic chemistry Microbiology Genetics Advanced molecular biology and biochemistry Medical biotech Environmental biotech Commercial biotech Professional issues in biotech
LANGUAGES	<ul style="list-style-type: none"> English (Full professional fluency) Bahasa Indonesia (Native) Japanese (Conversational)

¹Based on UNSW comparison of grading system available here: <https://student.unsw.edu.au/grades-comparison-of-grading-systems>. UNSW is ranked 48th in the world by 2014 QS World University Rankings and 109th by 2014 Times Higher Education.