Gerben Voshol

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PERSONAL PROFILE

A meticulous, motivated and highly knowledgeable researcher with analytical prowess, an eye for detail and a proven track record researching and successfully contributing to cutting edge biotechnology and bioinformatics projects in industry-funded and academic research environments internationally

An accomplished bilingual communicator and presenter with the ability to collaborate with peers, and academic and industrial partners at all levels and across cultures

CAREER & ACHIEVEMENTS TO DATE

Postdoctoral Researcher   2015-date
Institute of Biology Leiden (IBL), The Netherlands

- Designed artificial neural networks for protein engineering & signal peptide predictions as *IBL* postdoc researcher
- Trained the network to identify residues that mutated to release enzymes with enhanced temperature properties
- Won a reputation as a methodical researcher with biotechnology/bioinformatics expertise and an eye for detail
- Proved versatile in heterologous gene expression & genetic engineering of microorganisms including *Aspergillus*
- Constructed a novel Hidden Markov genome mining model; identifying several new families of lytic enzymes
- Mined for novel microbial metabolites & discovered new protein functions by utilising complex bioinformatics tools
- Identified and applied alternative protein secretion methods; enhancing heterologous enzyme production fourfold
- Built a probabilistic genome mining model that outperformed existing models in terms of sensitivity & specificity
- Played a key role in the discovery of unique enzymes that assisted in the enzymatic degradation of plant biomass
- Engaged with academic/industrial partners to design new microbial strains & next generation enzymatic cocktails
- Proved a knowledgeable mentor; coordinating several research projects for PhD, MSc, BSc and minor students
- Co-authored several articles, reports & international R&D project proposals including *Cobiotech, BBSRC* and *STW*
- Praised for the ability to work as a part of a team and independently with minimum direction and supervision

Contract Researcher   2018 & 2014-2015
Bisolbi-Inter LLC, Russia

- Rehired by *Bisolbi-Inter LLC* as a contract researcher (2018) due to an outstanding previous record in 2014-2015
- Conducted next-generation sequencing microbiome analysis of a new type of bio-modified mineral fertiliser
- Coordinated an international agricultural project on the isolation of beneficial microorganisms from ancient crops
- Subject matter expert in bioinformatics; keeping abreast of latest developments and advising on R&D projects
- Analysed a bacterial strain in products; providing beneficial insights and recommendations on genetic potential
- Identified unique genomic signature sequences in the strain to ensure accurate specific detection in a sample

2017

Contract Researcher

Weissbiotech GMBH, Germany (2017)

♦ Performed a feasibility study (using *Aspergillus niger*) to support *Weissbiotech's* future product development

♦ Created synthetic designs of target genes and identified critical genomic features determining protein production

♦ Commended for developing and delivering the project to budgetary constraints, deadline and remit

Technician   2004 & 2007

Leiden University - Plant Ecology & Phytochemistry (2007) | Ontwikkelings- En Moleculaire Genetica (2004)

♦ Impressed as a plant ecology & phytochemistry technician (2007) and a molecular genetics technician (2004)

♦ Mentored second year students in the application of advanced molecular techniques and bioinformatics tools

♦ Successfully maintained vector stock collection and helped cross-test a homozygous dominant phenotype

QUALIFICATIONS, PROFESSIONAL TRAINING & PERSONAL DETAILS

DOB: 02-02-1981   *Fluent in English & Dutch*   *Nationality: Dutch*

PhD, Leiden University, The Netherlands   2015

Thesis: Biodiesel Production using Cyanobacteria

MSc in **Molecular Microbiology** & **Biotechnology,** Leiden University, The Netherlands   2008

Thesis: Biocontrol of Tomato Foot and Root Rot

BSc (Hons) in **Molecular Microbiology** & **Biotechnology,** Leiden University, The Netherlands   2006

Thesis: Chloroplast and Mitochondrial DNA Variation in Senecio Jacobaea

C programming expertise

SKILLS & KEY COMPETENCIES

♦ Bioinformatics/biotechnology research expertise

♦ Genetics, genomics & genome mining expertise

♦ Modelling & artificial neural networks design skills

♦ Proven metabolic pathway engineering prowess

♦ Synthetic biology & self-organising maps knowledge

♦ Agricultural/industrial biotechnology experience

♦ Outstanding data analysis and reporting skills

♦ Accomplished communicator, coach and mentor

♦ Energetic and committed team player

♦ Creative thinker and resourceful problem solver

♦ Confident, determined and driven to succeed

♦ Ability to engage across all levels and cultures

♦ Passionate about molecular microbiology research

♦ Meticulous with an eye for detail

♦ Excellent peer/partner/stakeholder relationships

♦ Professionalism and integrity at all times

INTERESTS

Sport, Reading and Travel

REFERENCES

References Available upon Request