Minrui Ren

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Education

09/2022-present	***PhD student, Leiden University*** • Institute of Biology Leiden • Supervisor: Lennart Schada von Borzyskowski • Currently working on modification of enzymes and metabolic pathways of Alphaproteobacteria.	Leiden, the Netherlands
09/2020-08/2022	***Master of Science, Leiden University*** • MSc in Biology: Molecular Genetics & Biotechnology; • Thesis: Investigating the ethylene glycol oxidation pathway in *Paracoccus denitrificans*.	Leiden, the Netherlands
02/2020-07/2020	***Pre-master, NHL Stenden University of Applied Sciences*** • Main Course: Academic Writing.	Leeuwarden, the Netherlands
09/2014-07/2018	***Bachelor of Science, Beijing University of Chemical Technology*** • BSc in Biotechnology; • Thesis: Development of T7 RNA Polymerase for 3-Hydroxypropionic Acid Production in *Klebsiella pneumoniae*; • Group rank: 4/40; Top 10%.	Beijing, China

Professional Experience

07/2021 - 08/2022	***Master thesis:*** *Investigating the ethylene glycol oxidation pathway in Paracoccus denitrificans*. • Characterized novel alcohol and aldehyde dehydrogenases; • Working towards establishing a CRISPR-Cas system in Alphaproteobacteria.	Leiden, the Netherlands
11/2018 - 04/2019	***Laboratory Assistant at Zhejiang University Pan's Lab,*** • Research topic: miR-138's repression of the gene FOXC1; • Skills learned: Vero cell culture, transfection, virus titration, basic knowledge about studying miRNA and HPV.	Hangzhou, China
10/2017 - 06/2018	***Bachelor thesis (selected as Bachelor honours thesis):*** *Development of T7 RNA Polymerase for 3-Hydroxypropionic Acid Production in Klebsiella pneumoniae* • Developed a T7 expression system of the normal gene expression system in the host to achieve the expression of the target metabolic pathway and explore the effects on metabolism according to the Taguchi methods; • Skills learned: HPLC usage and data analysis, oxidative titration, small trial fermentation, engineering bacteria and construction of vectors, SDS-PAGE.	Beijing, China
10/2016 - 05/2017	***Innovation and Entrepreneurship Challenge of the University Yang's Lab:*** *Phenylboronic Acid Based Glucoseresponsive Polymeric Materials for Insulin Delivery* • Synthesised pump boronate-coated insulin nanoparticles; • Simulated in-vivo pH and ionic strength and study salt-tolerance of the nanocarriers; • Skills learned: Organic chemical synthesis reactions, heterogeneous reactions, vacuum freeze-drying, fluorescence detection.	Beijing, China
03/2016 - 07/2016	***Laboratory Assistant at Biophysics Laboratory of Peking University,*** *Stress-induced IPS cell differentiation* • Responsible for gel electrophoresis and mouse cardiomyocyte cell culture.	Beijing, China

Other Experience

09/2017 - 10/2017	***Industry Intern at Fu Yang Biological Technology Co., Ltd,*** • Learned about the industrial fermentation of sodium gluconate, including raw material handling and downstream products; • Electronic monitoring of the corn starch production process.	Dezhou, China

07/2016 - 08/2016	***Industry Intern at CHIA TAI TIANQING Pharmaceutical Group Runzhong Co., Ltd*** • Coordinated the quantity of diammonium glycyrrhizinate at production and quality assurance departments.	Lianyungang, China
07/2015 - 08/2015	***Summer school: Innovation and Entrepreneurship at Israel Institute of Technology*** • Four-people group work: conducted a consultancy project to design a profit model for a start-up about video games, using data modelling and analytics methods.	Haifa, Israel

Publications

- Zhao, P., **Ren, M.**, Ge, X., Tian, P., & Tan, T. (2020). Development of orthogonal T7 expression system in *Klebsiella pneumoniae*. Biotechnology and Bioengineering, 117(8), 2446-2459. DOI: 10.1002/bit.27434

Honours and Awards

2016-2018	Awarded with People's Scholarship of the university for three years successively;
2017-2018	Cum Laude Student for Honours Thesis;
2015-2016	Second Prize in Science and Technology Essay Competition;
2015-2016	Gold Prize in Microfilm Competition of the university.

Languages

Chinese (native), English (work proficiency)

Skills

Software	Microsoft Office, ChemDraw, CAD, Snapgene, Primer Premier, Photoshop;
Data analysis	R, GraphPad Prism, OriginLab;
Lab skills	Vacuum compressor, particle sizing systems, PCR, protein expression and purification, enzyme assays, primer design, competent cell preparation.

References

Lennart Schada von Borzyskowski (MSc Thesis Supervisior) l.schada.von.borzyskowski@biology.leidenuniv.nl
Assistant Professor @ Leiden University, Institute of Biology Leiden

Donli Pan (Project Supervisor) pandongli@zju.edu.cn
Professor @ Jiejiang University, Faculty of Basic Medicine

Pingfang Tian (BSc Thesis Supervisor) tianpf@mail.buct.edu.cn
Professor @ Beijing University of Chemical Technology

Jing Yang (Project Supervisor) yangj@mail.buct.edu.cn
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