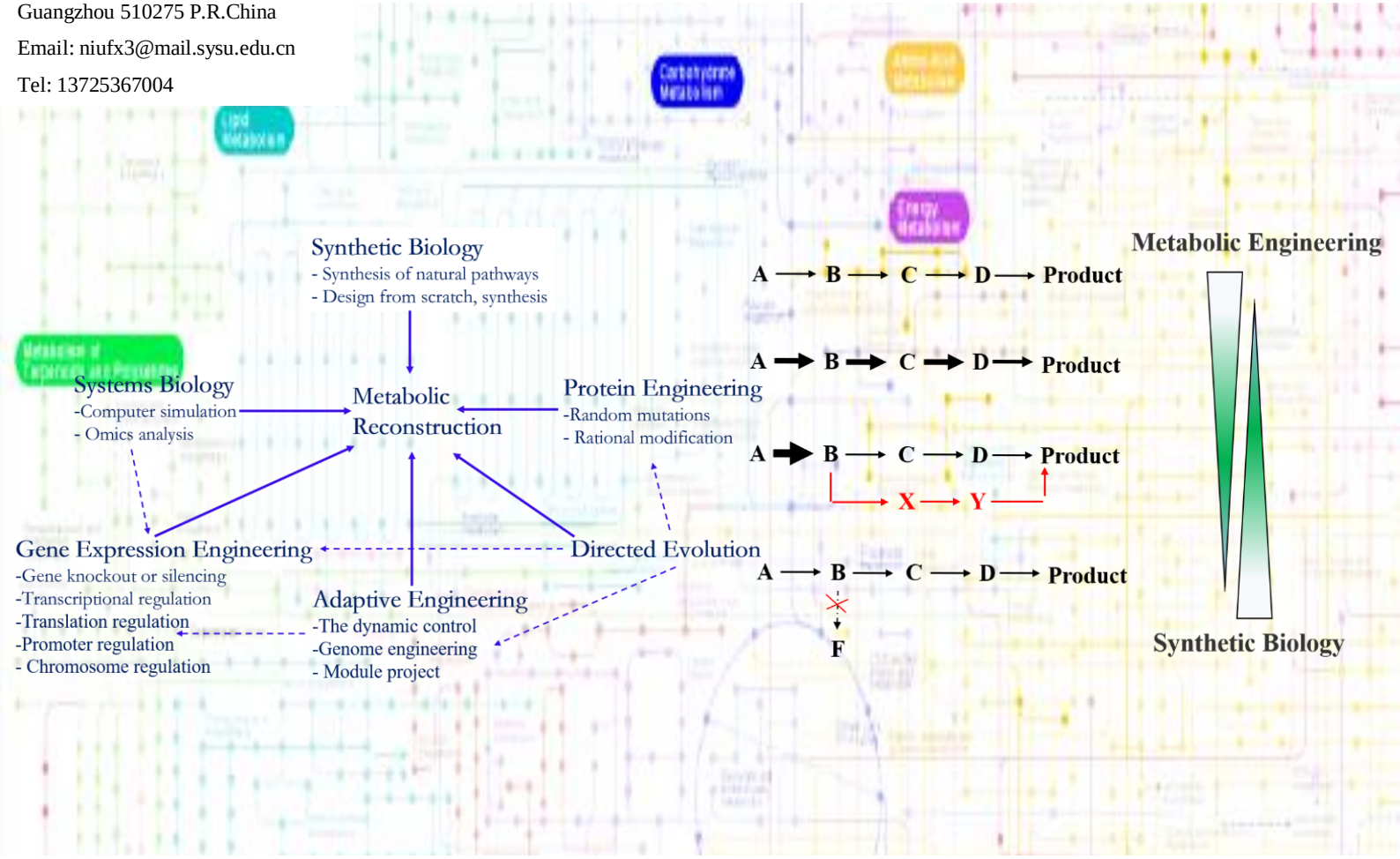
Fu-Xing Niu, PhD
Postdoctoral of Microbiology
Lab of Microbial Metabolic
Engineering and Synthetic Biology
Institute of Synthetic Biology,
School of Life Sciences
Sun Yat-sen University
No. 135, Xingang Xi Road
Guangzhou 510275 P.R.China
Email: niufx3@mail.sysu.edu.cn
Tel: 13725367004

Microbial Metabolic Engineering and Synthetic Biology

Research interests:

I am mainly engaged in microbial metabolic engineering and synthetic biology of terpenes, tyrosine derivatives and other natural products.Research interest is mainly focused on the use of metabolic engineering, synthetic biology and systems biology with the combination of technology, including promoter, chromosome engineering, transcription mechanism engineering, genome editing, evolution, microbial sensor engineering, genome project, system based on omics metabolic engineering, CRISPR engineering, etc., to global regulation of microbial cells, build efficient plant cells.



Main achievements:

During the four years from doctor to postdoctoral, I published three SCI papers as the first author and undertook one provincial scientific research project.It is engaged in metabolic engineering and synthetic biology research of high added value natural products, and has established international advanced microbial molecular breeding technology platform.By using metabolic engineering, synthetic biology and omics, a microbial cell factory with internationally advanced technology for producing terpenes and tyrosine derivatives was constructed.