BAOWEN YUAN

Ph.D. student of bioinformatics and biostatistics at German Cancer Research Center and University of Heidelberg. I expect to get my Ph.D. degree in April, 2020

I am broadly interested in molecular biology, system biology, bioinformatics and biostatistics, omics data analysis, machine learning, data integration and visualization.

EDUCATION

Present | 2016

Ph.D. Candidate, Bioinformaitcs
University of Heidelberg — Heidelberg, Germany

- Thesis: Identification of Plasma Metabolites Associated with Breast and Ovarian Cancer and Breast Cancer Prognosis

2016 | 2013

M.S., Bioinformatics
Technical University of Denmark — Lyngby, Denmark

- Thesis: A Study on Regulatory Principles of Mammalian Genomes at the Chromosome Structure Level (English)
- Excellent master thesis

M.S., Bioinformatics
Institute of Genetics and Developmental Biology, Chinese Academy of Sciences — Beijing, China

- Thesis: A Study on Regulatory Principles of Human Genomes at the Chromosome Structure Level (Chinese)

2013 | 2009

B.S., Biotechnology
Henan University of Technology — Zhengzhou, China

- Thesis: Research on RT-PCR Technology in Identification of Potato Virus Y (PVY) Serotype
- Excellent bachelor thesis

PROGRAM

2016 | 2013

The university partnership Denmark-China program
Sino-Danish Center — Beijing, China

PERSONAL DATA

May 21st, 1990
b.yuan@dkfz.de
Baowen Yuan
chenyuan-date
CHENYUAN
+49 160 5964385
Im Neuenheimer Feld 581, Heidelberg, Germany

SKILLS

Bioinformatics

- RNA-seq
- CHIP-seq
- Hi-C
- Single-cell
- Metabolomics data

Data analysis

- NGS data analysis
- Statistical analysis
- Machine learning
- Data visualization

PUBLICATIONS

2019

A plasma metabolite panel as biomarkers for early primary breast cancer detection

International Journal of Cancer. 2019, 144:2833-42.

- **Yuan BW***, Schafferer S, Tang QQ, Scheffler M, Nees J, Heil J, Schott S, Golatta M, Wallwiener M, Sohn C, Koal T, Wolf B, Schneeweiss A, **Burwinkel B***
- Impact Factor = 7.360

Panels of Plasma Metabolites as Diagnostic and Prognostic Markers in Metastatic Breast Cancer

Under Review

- **Yuan BW***, Schafferer S, Deutsch T, Tang QQ, Scheffler M, Nees J, Koal T, Wolf B, Wallwiener M, Schneeweiss A, **Burwinkel B***

A comprehensive analysis of metabolomic and transcriptomic data reveals metabolic pathway alteration in ovarian cancer

In Submission

- **Yuan BW***, Schafferer S, Scheffler M, Nees J, Koal T, Wolf B, Wallwiener M, Schneeweiss A, **Burwinkel B***

Blood metabolites as biomarkers for breast cancer and ovarian cancer: a systematic review

In Preparation

- **Yuan BW***, **Burwinkel B***

2015

Chromatin higher-order structure: an important form of genome regulation

Chinese Bulletin of Life Sciences. 2015, 27(3):336-343.

- **YUAN Bao-Wen**, **WANG Xiu-Jie***

PATENTS

2018

Metabolite-based breast cancer detection and diagnosis

European Patent and Trademark Office

- Barbara Burwinkel, Baowen Yuan
- patent number: PCT/EP2019/057688

Metabolites used for ovarian cancer detection and diagnosis

European Patent and Trademark Office

- Barbara Burwinkel, Baowen Yuan

CONFERENCE POSTER AND TALK

COMPUTER

- Windows/Linux
- Adobe Illustrator
- Inkscape
- Adobe Photoshop
- LaTeX
- Markdown

PROGRAMMING

- R
- Python
- Bash

LANGUAGES

- Mandarin (Native)
- English (Full professional proficiency)
- German (Beginner)

INTERESTS

- Table tennis
- Reading
- Skiing
- Biking

2019

A plasma metabolite panel as biomarkers for early primary breast cancer detection

13th International Ph.D. Cancer Conference, Jun. 2019

Netherlands Cancer Institute

2018

Plasma metabolites as biomarkers for early primary breast cancer detection

German Cancer Research Center Poster presentation, Nov. 2018

German Cancer Research Center

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