Zhijian Li

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Education

2016 - present Ph.D., Computational Biology, RWTH Aachen University, Germany 2014 - 2016 M.Sc., Computer Science, Central China Normal University, China

2008 - 2012 B.S., Computer Science, Jilin University, China

Awards

2021	Poster Award of e:Med Meeting on Systems Medicine 2021, Germany
2016	Outstanding Master Thesis of Central China Normal University
2015	National Scholarship of China

Presentations

2021	Flash Talk & Poster Presentation, e:Med Meeting on Systems Medicine 2021, Germany
2020	Regular Talk, ECCB 2020
2020	Poster Presentation, ISMB 2020
2019	Poster Presentation, ISMB/ECCB 2019
2018	Regular Talk, ISMB 2018
2018	Poster Presentation, RECOMB 2018

Publications

Co-first authors; * Co-corresponding authors

First/co-first author papers

1. C. Kuppe#, R. Flores#, **Z. Li**#, S. Hayat, M. Hannani, J. Tanevski, M. Halder, M. Cheng, S. Ziegler, X. Zhang, F. Preisker, N. Kaesler, Y. Xu, R. M. Hoogenboezem, E. M. Bindels, R. K. Schneider, H. Milting, I. G. Costa*, J. Saez-Rodriguez*, R. Kramann*. Spatial multi-omic map of human myocardial infarction. **Nature** (2022). (In press)

- 2. **Z. Li**, J. Nagai, C. Kuppe, R. Kramann, I. G. Costa. scMEGA: Single-cell Multiomic Enhancer-based Gene Regulatory Network Inference. **Bioinformatics** (2022). (In preparation)
- 3. **Z. Li***, C. Kuppe*, S. Ziegler, M. Cheng, N. Kabgani, S. Menzel, M. Zenke, R. Kramann*, I. G. Costa*. Chromatin-accessibility estimation of single-cell ATAC-seq data with scOpen. **Nature Communications** (2021).
- 4. **Z. Li**, M. H. Schulz, T. Look, M. Begemann, M. Zenke, I. G. Costa. Identification of transcription factor binding sites using ATAC-seq. **Genome Biology** (2019).
- 5. **Z. Li**, J. Guo, S. Yang. Improving the JADE Algorithm by Clustering Successful Parameters. **International Journal of Wireless and Mobile Computing** (2016).

Contributed papers

- H. Xu, M. A. Karpinska, Z. Li, C. Kuo, K. Götz, T. Look, M. de Toledo, K. Seré, G.Z. Bensch, A. Oudelaar, I. G. Costa and M. Zenke. A IncRNA identifies IRF8 enhancer in feedback control of DC development. Molecular Cell (2022). (Submitted)
- 2. M.Cheng, **Z.Li**, I.G.Costa. MOJITOO: a fast and universal method for integration of multimodal single cell data. **Bioinforamtics** (2022) (In press)
- 3. D. Schumacher[#], M. Cheng[#], C. Kuppe, E. M. Bindels, R. K. Schneider, **Z. Li**, I. G. Costa*, R. Kramann*. Single Nucleus ATAC Sequencing Reveals Epigenomic Regulation After Myocardial Infarction. **Nature Cardiovascular Research** (2022) (Under review).
- S. Heller, Z. Li, Q. Lin, R. Geusz, M. Breunig, M. Hohwieler, X. Zhang, G. Nair, T. Seufferlein, M. Hebrok, M. Sander, C. Julier, A. Kleger*, I. G. Costa*. Transcriptional changes and the role of ONECUT1 in hPSC pancreatic differentiation. Communications Biology (2021)
- 5. A. Philippi#, S. Heller#, I.G. Costa#, V. Senée#, M. Breunig, Z. Li, G. Kwon, R. Russell, A. Illing, Q. Lin, M. Hohwieler, A. Degavre, P. Zalloua, S. Liebau, M. Schuster, J. Krumm, X. Zhang, R. Geusz, J.R. Benthuysen, A. Wang, J. Chiou, K. Gaulton, H. Neubauer, E. Simon, T. Klein, M. Wagner, G. Nair, C. Besse, C. Dandine-Roulland, R. Olaso, J. Deleuze, B. Kuster, M. Hebrok, T. Seufferlein, M. Sander, B.O. Boehm, F. Oswald, M. Nicolino*, C. Julier*, A. Kleger*. Mutations and variants of ONECUT1 in diabetes. Nature Medicine (2021).
- 6. E.F. Brandt, T.H. Wirtz, **Z. Li**, M.M. Ibrahim, P. Fischer, A. Beckers, A. Flabhove, I.G. Costa, R. Kramann, E.P.C. van der Vorst, C. Liedtke, H. Sahin, C. Trautwein, M.L. Berres. CXCR3-expressing macrophages regulate angiogenesis, tumor cell proliferation and immune evasion in hepatocellular carcinoma. (2021) (Submitted).
- 7. K. Ohl, J. Hriczko, S. Schulz, T. Look, T. Goodarzi, S.H. Subramanyam, T. Clarner, M. Scheld, M. Kipp, E. Verjans, S. Böll, I.G. Costa, Z. Li, L. Gan, B. Denecke, A. Schippers, S. Floess, J. Huehn, E. Schmitt, T. Bopp, R. Beyaert, B. Lambrecht, M. Zenke, N. Wagner, K. Tenbrock. Foxp3-specific deletion of CREB generates Th2 biased ST-2 positive regulatory T-cells with enhanced IL-10 production and suppressive capacity. (2021) (Submitted).

- 8. J. Guo, **Z. Li**, S. Yang. Accelerating differential evolution based on a subset-to-subset survivor selection operator. **Soft Computing** (2019).
- 9. J. Guo, W. Xie, **Z**, **Li**. Enhancing JADE utilizing distance of best solutions. **Computer Engineering and Design** (2018).
- 10. J. Guo, **Z. Li**, W. Xie, H. Wang. Dissipative differential evolution with self-adaptive control parameters. **IEEE Congress on Evolutionary Computation** (2015).