

- **Name:** Zlatko Trajanoski
  - **Current Position & Affiliation:** Professor, Director of the Biocenter, Medical University of Innsbruck,
  - **Country:** Austria
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- **Educational Background:**

- 1990 - 1995: PhD, Biomedical Engineering, Graz University of Technology, Graz, Austria
- 1984 - 1990: Biomedical Engineering, Graz University of Technology, Graz, Austria

- **Professional Experience:**

- Since 2020: Director, Biocenter, Medical University of Innsbruck, Austria
- Since 2010: Full professor for Bioinformatics, Medical University of Innsbruck, Austria
- 2003 – 2010: Full professor for Bioinformatics, Graz University of Technology, Graz, Austria
- 2000 – 2001: Visiting Scientist, The Institute for Genomic Research (TIGR), Rockville, MD/USA and National Institutes of Health, Bethesda, MD/USA
- 1997 – 1998: Postdoctoral Fellow, Department of Internal Medicine, Yale University, New Haven, CT/USA

- **Professional Organizations:**

N/A

- **Main Scientific Publications:**

1. Finotello F, Rieder D, Hackl H, **Trajanoski Z**. Next-generation computational tools for interrogating cancer immunity. *Nat Rev Genet.* 2019. 20:724-746  
<https://doi.org/10.1038/s41576-019-0166-7>
2. Finotello F, Mayer C, Plattner C, Laschober G, Rieder D, Hackl H, Krogsdam A, Loncova Z, Posch W, Wilflingseder D, Sopper S, Ijsselsteijn M, Brouwer TP, Johnson D, Xu Y, Wang Y, Sanders ME, Estrada MV, Ericsson-Gonzalez P, Charoentong P, Balko J, de Miranda N, **Trajanoski Z**. Molecular and pharmacological modulators of the tumor immune contexture revealed by deconvolution of RNA-seq data. *Genome Med.* 2019. 11:34.  
<https://doi.org/10.1186/s13073-019-0638-6>
3. Efremova M, Rieder D, Klepsch V, Charoentong P, Finotello F, Hackl H, Hermann-Kleiter N, Löwer M, Baier G, Krogsdam AM, **Trajanoski Z**. Targeting immune checkpoints potentiates immunoediting and changes the dynamics of tumor evolution. *Nat Commun.* 2018. 9:32  
<https://doi.org/10.1038/s41467-017-02424-0>
4. Charoentong P\*, Finotello F\*, Angelova M\*, Mayer C, Efremova M, Rieder D, Hackl H, **Trajanoski Z**. Pan-cancer immunogenomic analyses reveal genotype-immunophenotype relationships and predictors of response to checkpoint blockade. *Cell Rep.* 2017. 18:248-262  
<https://doi.org/10.1016/j.celrep.2016.12.019>
5. Hackl H\*, Charoentong P\*, Finotello F\*, **Trajanoski Z**. Computational genomics tools for dissecting tumor-immune cell interactions. *Nat Rev Genet.* 2016. 17:441-458  
<https://doi.org/10.1038/nrg.2016.67>

6. Angelova M, Charoentong P, Hackl H, Fischer M, Snajder R, Krogsdam AM, Waldner MJ, Bindea G, Mlecnik B, Galon J, **Trajanoski Z**. Characterization of the immunophenotypes and the antigenomes reveal distinct tumor escape mechanisms and novel targets for immunotherapy of colorectal cancers. **Genome Biol.** 2015. 16:64 <https://doi.org/10.1186/s13059-015-0620-6>
7. Bindea G, Mlecnik B, Tosolini M, Kirilovsky A, Waldner M, Obenauf AC, Angell H, Frederiksen T, Lafontaine L, Berger A, Bruneval P, Fridman WH, Becker C, Speicher MR, **Trajanoski Z**, Galon J. Spatio-temporal dynamics of intratumoral cells reveal the immune landscape in human cancer. **Immunity.** 2013. 39:782-795 <https://doi.org/10.1016/j.immuni.2013.10.003>
8. Pabinger S, Dander A, Fischer M, Snajder R, Sperk M, Efremova M, Krabichler B, Speicher MR, Zschocke J, **Trajanoski Z**. A Survey of tools for variant analysis of next-generation genome sequencing data. **Brief Bioinform.** 2014. 15:256-278 <https://doi.org/10.1093/bib/bbs086>
9. Galon J, Costes A, Sanchez-Cabo F, Kirilovsky A, Mlecnik B, Lagorce-Pages C, Tosolini M, Camus M, Berger A, Wind P, Zinzindohoue F, Bruneval P, Cugnenc PH, **Trajanoski Z**, Fridman WH, Pages F. Type, density, and location of immune cells within human colorectal tumors predict clinical outcome. **Science.** 2006. 313(5795):1960-4. <https://doi.org/10.1126/science.1129139>
10. Hackl H, Burkard TR, Sturn A, Rubio R, Schleiffer A, Tian S, Quackenbush J, Eisenhaber F, **Trajanoski Z**. Molecular processes during fat cell development revealed by gene expression profiling and functional annotation. **Genome Biol.** 2005. 6(13):R108. <https://doi.org/10.1186/gb-2005-6-13-r108>