

Imaging Mass Cytometry Publications

October 2020

This bibliography contains references to more than 65 peer-reviewed publications featuring Imaging Mass Cytometry™ through October 20, along with a few non-peer-reviewed articles (for example, articles in *bioRxiv* and *Research Square*) that are likely to be of interest.

2020

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- 6 Catena, R. et al. “Highly multiplexed molecular and cellular mapping of breast cancer tissue in three dimensions using mass tomography.” *bioRxiv* (2020): doi.org/10.1101/2020.05.24.113571.
- 7 Chen, P.Y. et al. “Smooth muscle cell reprogramming in aortic aneurysms.” *Cell Stem Cell* 26 (2020): 542–557.
- 8 De Vries, N.L. et al. “Unraveling the complexity of the cancer microenvironment with multidimensional genomic and cytometric technologies.” *Frontiers in Oncology* 10 (2020): 1254.
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- 15 Lin, Y-W. E. et al. “Graph of graphs analysis for multiplexed data with application to Imaging Mass Cytometry™” *bioRxiv* (2020): doi: <https://doi.org/10.1101/2020.08.23.263467>.
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- 18 Schwabenland, M. et al. “Deep spatial profiling of COVID19 brains reveals neuroinflammation by compartmentalized local immune cell interactions and targets for intervention.” *Research Square* (2020): 10.21203/rs.3.rs-63687/v1.
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- 20 Warren, C. et al. “Decoding mitochondrial heterogeneity in single muscle fibres by Imaging Mass Cytometry™.” *Scientific Reports* 10 (2020): 15336.
- 21 Xiang, H. et al. “Cancer-associated fibroblasts promote immunosuppression by inducing ROS-generating monocytic MDSCs in lung squamous cell carcinoma.” *Cancer Immunology Research* 8 (2020): 436–450.
- 22 Yu, Y. et al. “Metal-labeled aptamers as novel nanoprobes for Imaging Mass Cytometry.™” *Analytical Chemistry* (2020): doi.org/10.1021/acs.analchem.9b05159.
- 23 Zhang, Y. et al. “Inflammatory response cells during acute respiratory distress syndrome in patients with coronavirus disease 2019 (COVID-19).” *Annals of Internal Medicine* 173 (2020): 402–404.

- 24** Zhang, Y. et al. “A systematic comparison of *in vitro* cell uptake and *in vivo* biodistribution for three classes of gold nanoparticles with saturated PEG coatings.” *PLoS ONE* 15 (2020): e0234916.

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- 3** Bouzekri, A. et al. “Multidimensional profiling of drug-treated cells by Imaging Mass Cytometry™.” *FEBS Open Bio* (2019): 1,652–1,669.
- 4** Cao, Y. et al. “Skin platinum deposition in colorectal cancer patients following oxaliplatin-based therapy.” *Cancer Chemotherapy and Pharmacology* 84 (2019) 1,195–1,200.
- 5** Carvajal-Hausdorf, D.E. et al. “Multiplexed (18-plex) measurement of signaling targets and cytotoxic T cells in trastuzumab-treated patients using Imaging Mass Cytometry™.” *Clinical Cancer Research* 25 (2019): 3,054–3,062.
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- 15 Popescu, D-M. et al. “Decoding the development of the blood and immune systems during human fetal liver haematopoiesis.” *Nature* 574 (2019): 365–371.
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- 5 Cao, Y. et al. “Tumor platinum concentrations and pathological responses following cisplatin-containing chemotherapy in gastric cancer patients.” *Journal of Gastrointestinal Cancer* (2018): 801–807.
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