

# Imaging Mass Cytometry Publications

August 2020

This bibliography contains references to more than 55 peer-reviewed publications featuring Imaging Mass Cytometry™ through August 15, along with a few non-peer-reviewed *bioRxiv* articles that are likely to be of interest.

## 2020

- 1 Ali, H.R. et al. “Imaging Mass Cytometry™ and multiplatform genomics define the phenogenomic landscape of breast cancer.” *Nature Cancer* 1 (2020): 163–175.
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- 5 Chen, P.Y. et al. “Smooth muscle cell reprogramming in aortic aneurysms.” *Cell Stem Cell* 26 (2020): 542–557.
- 6 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.
- 7 Eling, N. et al. “Visualization of highly multiplexed imaging cytometry data in R.” *Bioconductor* (2020): doi:10.18129/B9.bioc.cytomapper.
- 8 Flint, L.E. et al. “The characterization of an aggregated three-dimensional cell culture model by multimodal mass spectrometry imaging.” *Analytical Chemistry* (2020): doi:10.1021/acs.analchem.0c02389.
- 9 Guo, N. et al. “A 34-marker panel for imaging mass cytometric analysis of human snap-frozen tissue.” *Frontiers in Immunology* 11 (2020): 1466.
- 10 Jackson, H.W. et al. “The single-cell pathology landscape of breast cancer.” *Nature* 578 (2020): 615–620.

- 11 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.
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## 2019

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- 2 Bassan, J. et al. “TePhe, a tellurium-containing phenylalanine mimic, allows monitoring of protein synthesis *in vivo* with mass cytometry.” *Proceedings of the National Academy of Sciences of the United States of America* 116 (2019): 8,155–8,160.
- 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.
- 6 Damond, N. et al. “A map of human type 1 diabetes progression by Imaging Mass Cytometry™.” *Cell Metabolism* 29 (2019): 755–768.
- 7 Datar, I. et al. “Expression analysis and significance of PD-1, LAG-3, and TIM-3 in human non-small cell lung cancer using spatially resolved and multiparametric single-cell analysis.” *Clinical Cancer Research* (2019): 4,663–4,673.
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- 17 Ramaglia, V. et al. “Multiplexed imaging of immune cells in staged multiple sclerosis lesions by mass cytometry.” *eLife* 8 (2019): e48051.
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- 3 Brodie, T.M. and Tosevski, V. “Broad immune monitoring and profiling of T cell subsets with mass cytometry.” *Methods in Molecular Biology* 1745 *Cellular Heterogeneity* (2018): 67–82.
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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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- 4 Schapiro, D. et al. “histoCAT™: analysis of cell phenotypes and interactions in multiplex image cytometry data.” *Nature Methods* 14 (2017): 873–876.
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