SunChrom

SunCollect Pneumatic Sprayer, MALDI Spotter and Fraction Collector

Selected Publications featuring SunChrom's SunCollect

2012 - 2020

1 SunCollect as a sprayer for MALDI-Imaging

Year	Author(s)	Titel	Link
2020			
2020	Yang et al.	On-Tissue Derivatization of Lipopolysaccharide for Detection of Lipid A Using MALDI-MSI	https://doi.org/10.1021/acs.analchem.0c02566
2020	Mezger et al.	Mass Spectrometry Spatial-Omics on a Single Conductive Slide	https://doi.org/10.1021/acs.analchem.0c04572
2020	Boyaval et al.	N-glycomic signature of stage II colorectal cancer and its association with the tumor microenvironment	DOI: 10.1074/mcp.RA120.002215
2020	Fülöp et al.	New Derivatization Reagent for Detection of free Thiol-groups in Metabolites and Proteins in Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging	https://doi.org/10.1021/acs.analchem.9b05630
2020	Prade et al.	*De novo* discovery of metabolic heterogeneity with immunophenotype-guided imaging mass spectrometry	https://doi.org/10.1016/j.molmet.2020.01.017
2020	Mueller et al.	Dual-polarity SALDI FT-ICR MS imaging and Kendrick mass defect data filtering for lipid analysis	https://link.springer.com/article/10.1007/s00216-020-03020-w
2020	Arolt et al.	Expression Profiling of Extracellular Matrix Genes Reveals Global and Entity-Specific Characteristics in Adenoid Cystic, Mucoepidermoid and Salivary Duct Carcinomas	https://doi.org/10.3390/cancers12092466

2020	Tiquet et al.	Mass Spectrometry Imaging Using Dynamically Harmonized FT-ICR at Million Resolving Power: Rationalizing and Optimizing Sample Preparation and Instrumental Parameters	https://chemrxiv.org/articles/preprint/Mass_Spectrometry_Imaging_Using_Dynamically_Harmonized_FT-ICR_at_Million_Resolving_Power_Rationalizing_and_Optimizing_Sample_Preparation_and_Instrumental_Parameters/13013900/1
2020	Ellis et al.	Mass spectrometry imaging of phosphatidylcholine metabolism in lungs administered with therapeutic surfactants and isotopic tracers	https://doi.org/10.1016/j.jlr.2021.100023
2020	Blutke et al.	Light sheet fluorescence microscopy guided MALDI-imaging mass spectrometry of cleared tissue samples	https://www.nature.com/articles/s41598-020-71465-1
2020	Nytka et al.	Signal enhancement in desorption nano electrospray ionization by custom-made inlet with pressure regulation	https://doi.org/10.1002/jms.4642
2020	Jurikova et al.	Bringing SEM and MSI Closer Than Ever Before: Visualizing Aspergillus and Pseudomonas Infection in the Rat Lungs	https://doi.org/10.3390/jof6040257
2020	Butler et al.	Lipidomic profiling of clinical prostate cancer reveals targetable alterations in membrane lipid composition	https://www.biorxiv.org/content/10.1101/2020.10.27.356634v1.abstract
2020	Kurcyk et al.	Classification of Thyroid Tumors Based on Mass Spectrometry Imaging of Tissue Microarrays; a Single-Pixel Approach	https://doi.org/10.3390/ijms21176289
2020	Mitra et al.	Differential expression of proteins in human prostate cancer tissues probed by MALDI imaging mass spectrometry	https://doi.org/10.1101/2020.10.05.326686
2020	La Rocca et al.	Using Biological Signals for Mass Recalibration of Mass Spectrometry Imaging Data	https://chemrxiv.org/articles/preprint/Using_Biological_Signals_for_Mass_Recalibration_of_Mass_Spectrometry_Imaging_Data/12901679/1
2020	Gregoire et al.	Imaging and quantifying drug delivery in skin – Part 1: Autoradiography and mass spectrometry imaging	https://doi.org/10.1016/j.addr.2019.11.004
2020	Berghmans et al.	Mass Spectrometry Imaging Reveals Neutrophil Defensins as Additional Biomarkers for Anti-PD-(L)1 Immunotherapy Response in NSCLC Patients	https://doi.org/10.3390/cancers12040863
2020	Andre et al.	The ascorbate-deficient guinea pig model of shigellosis allows the study of the entire Shigella life cycle	https://doi.org/10.1101/2020.08.28.270074
2020	Yutuc et al.	Localization of sterols and oxysterols in mouse brain reveals distinct spatial cholesterol metabolism	https://doi.org/10.1073/pnas.1917421117
2020	Colley et al.	Mapping and identification of native proteins of developing teeth in mouse mandibles. 92(11):7630-7637.	https://doi.org/10.1021/acs.analchem.0c00359

2020	Heijs et al.	Molecular signatures of tumor progression in myxoid liposarcoma identified by N-glycan mass spectrometry imaging. Laboratory Investigation	https://doi.org/10.1038/s41374-020-0435-2
2020	Kunzke et al.	Derangements of amino acids in cachectic skeletal muscle are caused by mitochondrial dysfunction	https://onlinelibrary.wiley.com/doi/full/10.1002/jcsm.12498
2020	Geier et al.	Connecting structure and function from organisms to molecules in small animal symbioses through chemo-histo-tomography	https://doi.org/10.1101/2020.09.28.316802
2020	Sun et al.	Mass spectrometry imaging establishes 2 distinct metabolic phenotypes of aldosterone-producing cell clusters in primary aldosteronism. Hypertension 75(3):634-644.	https://doi.org/10.1161/HYPERTENSIONAHA.119.14041
2019			
2019	Berghmans et al.	MALDI Mass Spectrometry Imaging Linked with Top-Down Proteomics as a Tool to Study the Non-Small-Cell Lung Cancer Tumor Microenvironment. MethodsProtoc 2:44	https://doi.org/10.3390/mps2020044
2019	Erich et al.	Spatial distribution of endogenous tissue protease activity in gastric carcinoma mapped by MALDI mass spectrometry imaging. Molecular & Cellular Proteomics 18, 151–161	https://doi.org/10.1074/mcp.RA118.000980
2019	Francese & Russo	Fingermarks as a new proteomic specimen: state of the art and perspective of in situ proteomics. Applications in Forensic Proteomics: Protein Identification and Profiling, 91–105.	https://doi.org/10.1021/bk-2019-1339.ch006
2019	García et al.	Secretome analysis of chondrocytes andsynovial fibroblasts in osteoarthritis:modulation by VIP Annals of the Rheumatic Diseases 78:1512.	https://ard.bmj.com/content/annrheumdis/78/Suppl_2/1512.1.full.pdf
2019	Gawin et al.	Molecular heterogeneity of papillary thyroid cancer: comparison of primary tumors and synchronous metastases in regional lymph nodes by mass spectrometry imaging. Endocrine Pathology 30:250–261	https://doi.org/10.1007/s12022-019-09593-2
2019	Gorka et al.	Molecular composition of fingermarks: Assessment of the intra- and inter-variability in a small group of donors using MALDI-MSI. Forensic Chemistry 12: 99-106,	https://doi.org/10.1016/j.forc.2018.12.002
2019	Huizing et al.	Development and evaluation of matrix application techniques for highthroughput mass spectrometry imaging of tissues in the clinic. Clinical Mass Spectrometry12: 7-15.	https://doi.org/10.1016/j.clinms.2019.01.004

2019	Joye et al.	In situ metabolomic changes in rat hippocampus afteracute cocaine administration. International Journal of Mass Spectrometry 437: 87-91	https://doi.org/10.1016/j.ijms.2017.12.001
2019	Kune et al.	Rapid visualization of chemically related compounds using Kendrick mass defect as a filter in mass spectrometry imaging. Analytica Chemistry. 2019, 91, 13112−13118	https://doi.org/10.1021/acs.analchem.9b03333
2019	Ly et al.	Enhanced coverage of insect neuropeptides in tissue sections by an optimized mass-spectrometry-imaging protocol. Anal. Chem. 2019, 91, 1980−1988	https://doi.org/10.1021/acs.analchem.8b04304
2019	Nishidate et al.	Applications of MALDI mass spectrometry imaging forpharmacokinetic studies during drug development	https://doi.org/10.1016/j.dmpk.2019.04.006
2019	Nollet	Mass spectrometry imaging. In: Mass spectrometry imaging in food analysis. Nollet. CRC Press Taylor&Francis Group, Boca Raton, USA	ISBN: 978-1138370692
2019	Mas et al.	Use of physiological information based on grayscale images to improve mass spectrometry imaging data analysis from biological tissues. Analytical Chimica acta 1074:69-79.	https://doi.org/10.1016/j.aca.2019.04.074
2019	Piga et al.	Ultra-highresolutionMALDI-FTICR-MSIanalysisofintactproteinsinmouseandhumanpancreastissue. IntJMassSpec 437:10-16	https://doi.org/10.1016/j.ijms.2017.11.001
2019	Ressa	Characterizing tumor grades of myxoid liposarcoma using integrative clinical proteomics. In : Investigating molecular factors regulating cancer biology: from proteomics to multi-omics. PhD thesis, University of Utrecht, Netherlands. ISBN 978-94-6323-534-1. PhD thesis	https://dspace.library.uu.nl/bitstream/handle/1874/377820/2019_annaressa_phdthesis.pdf?sequence=1#page=71
2019	Sugiyama et al.	Mechanical allodynia induced by optogenetic sensory nerve excitationactivates dopamine signaling and metabolism in medial nucleus accumbens. Neurohemistry International 129:104494	https://doi.org/10.1016/j.neuint.2019.104494
2019	Sun et al.	prognostic relevance of steroid sulfation inadrenocortical carcinoma revealed by molecularphenotyping using high-resolution massspectrometry imaging. Clinical Chemistry 65(10):1276-1268.	
2019	Strnad et al.	The use of 1,5-diaminonaphthalene for matrix-assisted laser desorption/ ionization mass spectrometry imaging of brain in neurodegenerative disorders	https://doi.org/10.1016/j.talanta.2019.03.117
2019	Ucal et al.	Peptide profile differences of noninvasive follicular thyroid neoplasm with papillary-like nuclear features, encapsulated follicular variant,	http://doi.org/10.1089/thy.2018.0392

		and classical papillary thyroid carcinoma: an application of matrix-assisted laser desorption/ionization mass spectrometry imaging. Thyroid.29(8): 1125-1137.	
2019	Venkatraman et al.	Matrix-assisted Laser Desorption Ionization (MALDI) Mass Spectrometry Imaging (MSI) of keyproteins in corneal samples from Lattice dystrophy patients with TGFBI-H626R and R124C mutation. Proteomics - Clinical Applications 13(1): 1862-8346.	https://doi.org/10.1002/prca.201800053
2018			
2018	Barré et al.	Fast raster matrix-assisted laser desorption/ionizationmass spectrometry imaging of lipids at high lateral resolution. International Journal of Mass Spectrometry.	https://doi.org/10.1016/j.ijms.2018.09.015
2018	Buck et al.	Round robin study of formalin-fixed paraffin-embedded tissues in mass spectrometry imaging. Analytical and Bioanalytical Chemistry. Volume 410, Issue 23, pp 5969–5980	https://link.springer.com/article/10.1007/s00216-018-1216-2
2018	Urban et al.	PAXgene fixation enables comprehensive metabolomic and proteomic analyses of tissue specimens by MALDI MSI. BBA – General Subjects. Volume 1862, Issue 1, January 2018, Pages 51-60	https://www.sciencedirect.com/science/article/pii/S0304416517303264
2018	Mascini et al.	Tumor classification with MALDI-MSI data of tissue microarrays: A case study. Methods. Volume 151, 1 December 2018, Pages 21-27	https://www.sciencedirect.com/science/article/pii/S1046202317303687
2018	Ucal and Ozpinar	Improved spectra for MALDI MSI of peptides using ammonium phosphate monobasic in MALDI matrix. Journal of Mass Spectrometry. Volume 53, Issue 8, Pages 635-648.	https://onlinelibrary.wiley.com/doi/abs/10.1002/jms.4198
2018	Lewis et al.	Examination of the skin barrier repair/wound healing process using a living skin equivalent model and matrix-assisted laser desorption-ionization-mass spectrometry imaging. International Journal of Cosmetic Science. Volume 40, Issue 2, Pages 148-156.	https://onlinelibrary.wiley.com/doi/abs/10.1111/ics.12446
2018	Scotcher and Bradshaw	The analysis of latent fingermarks on polymer banknotes using MALDI-MS. Scientific Reports 8. Article number: 8765.	https://www.nature.com/articles/s41598-018-27004-0
2018	Schroeter et al.	The combination of 2,5-dihydroxybenzoic acid and 2,5-dihydroxyacetophenone matrices for unequivocal assignment of	https://link.springer.com/article/10.1007/s00216-018-0926-9

		phosphatidylethanolamine species in complex mixtures. Analytical and Bioanalytical Chemistry. Volume 410, Issue 9, pp 2437–2447	
2018	Sun et al.	Pharmacometabolic response to pirfenidone in pulmonary fibrosis detected by MALDI-FTICR-MSI. Eur. Respir. J. 52:1702314 (2018)	https://push-zb.helmholtz-muenchen.de/frontdoor.php?source_opus=54084&la=de
2018	Weigt et al.	Automated analysis of lipid drug-response markers by combined fast and high-resolution whole cell MALDI mass spectrometry biotyping. Scientific Reports 8, Article number: 11260	https://www.nature.com/articles/s41598-018-29677-z
2018	Kunz et al.	Metabolic Labeling to Quantify Drosophila Neuropeptides and Peptide Hormones. Peptidomics – Methods and Strategies. pp 175-185.	https://link.springer.com/protocol/10.1007/978-1-4939-7537-2_11
2018	Balluf and McDonnell	Mass Spectrometry Imaging of Metabolites. Clinical Metabolomics - Methods and Protocols. pp 345-357	https://link.springer.com/protocol/10.1007/978-1-4939-7592-1_26
2018	Flinders et al.	Cross-Species Molecular Imaging of Bile Salts and Lipids in Liver: Identification of Molecular Structural Markers in Health and Disease. Anal. Chem. 90 ,20, 11835-11846.	*Anal. Chem.*2018902011835-11846
2018	Sun et al.	High-Resolution Tissue Mass Spectrometry Imaging Reveals a Refined Functional Anatomy of the Human Adult Adrenal Gland. Endocrinology, Volume 159, Issue 3, Pages 1511–1524.	https://academic.oup.com/endo/article/159/3/1511/4828183
2018	Aichler et al.	Molecular similarities and differences from human pulmonary fibrosis and corresponding mouse model: MALDI imaging mass spectrometry in comparative medicine. Laboratory Investigation. Volume 98, pages 141–149.	https://www.nature.com/articles/labinvest2017110
2018	González de San Román et al.	Molecular composition of the human primary visual cortex profiled by multimodal mass spectrometry imaging. Brain Structure and Function. Volume 223, Issue 6, pp 2767–2783	https://link.springer.com/article/10.1007/s00429-018-1660-y
2018	Nguyen et al.	Pharmacokinetics and Skin Tolerability of Intracutaneous Zolmitriptan Delivery in Swine Using Adhesive Dermally Applied Microarray. Journal of Pharmaceutical Sciences. Volume 107, Issue 8, Pages 2192–2197.	https://www.jpharmsci.org/article/S0022-3549(18)30305-8/abstract
2018	Watanabe et al.	Extracellular N-acetylaspartylglutamate released in the nucleus accumbens modulates the pain sensation: Analysis using a microdialysis/massspectrometry integrated system. Molecular PainVolume 14: 1–10	https://journals.sagepub.com/doi/full/10.1177/1744806918754934
2018	Henderson et al.	Multi-modal imaging of long-term recovery post-stroke by positron emission tomography and matrix-assisted laser desorption/ionisation	https://onlinelibrary.wiley.com/doi/abs/10.1002/rcm.8090

		mass spectrometry. Rapid Communications in Mass Spectrometry. Volume32, Issue9, Pages 721-729.	
2018	Bonnel et al.	MALDI imaging facilitates new topical drug development process by determining quantitative skin distribution profiles. Analytical and Bioanalytical Chemistry. Volume 410, Issue 11, pp 2815–2828	https://link.springer.com/article/10.1007/s00216-018-0964-3
2018	Huber et al.	Approaching cellular resolution and reliable identification in mass spectrometry imaging of tryptic peptides. Analytical and Bioanalytical Chemistry. Volume 410, Issue 23, pp 5825–5837.	https://link.springer.com/article/10.1007/s00216-018-1199-z
2018	Quanico et al.	3D MALDI mass spectrometry imaging reveals specific localization of long-chain acylcarnitines within a 10-day time window of spinal cord injury. Scientific Reports 8, Article number: 16083.	https://www.nature.com/articles/s41598-018-34518-0
2018	Herzer et al.	Deletion of Specific Sphingolipids in Distinct Neurons Improves Spatial Memory in a Mouse Model of Alzheimer's Disease. Front Mol Neurosci. 11: 206.	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC6019486/
2018	Seyrantepe et al.	Murine Sialidase Neu3 facilitates GM2 degradation and bypass in mouse model of Tay-Sachs disease. Experimental Neurology. Volume 299, Part A, Pages 26-41.	https://www.sciencedirect.com/science/article/pii/S001448861730242X
2018	Lerner et al.	Simultaneous lipidomic and transcriptomic profiling in mouse brain punches of acute epileptic seizure model compared to controls. The Journal of Lipid Research, 59, 283-297.	http://www.jlr.org/content/59/2/283.short
2018	Stauber et al.	Method for characterising a sample by mass spectrometry imaging. US Patent US10141168B2	https://patents.google.com/patent/US10141168B2/en
2018	Suwandhi et al.	Chronic d-serine supplementation impairs insulin secretion. Molecular Metabolism. Volume 16, Pages 191-202	https://www.sciencedirect.com/science/article/pii/S2212877818306045
2018	Rabe et al.	Fourier Transform Infrared Microscopy Enables Guidance of Automated Mass Spectrometry Imaging to Predefined Tissue Morphologies. Scientific Reports 8, Article number: 313	https://www.nature.com/articles/s41598-017-18477-6
2018	Marten Snel	Ion Mobility Separation Mass Spectrometry Imaging. In: Ion Mobility Spectrometry, Volume 83 - Advances in Ion Mobility-Mass Spectrometry: Fundamentals, Instrumentation and Applications. Chapter Eight, Pages 237-254	https://www.sciencedirect.com/science/article/pii/S0166526X18300813

2018	Aldi et al.	Integrated Human Evaluation of the Lysophosphatidic Acid Pathway as a Novel Therapeutic Target in Atherosclerosis. Molecular Therapy – Methods & Clinical Development. Volume 10, Pages 17-28	https://www.sciencedirect.com/science/article/pii/S2329050118300494
2018	Yu et al.	Identification of bottlenecks in the accumulation of cyclic fatty acids in camelina seed oil. Plant Biotechnology Journal. Volume 16, Issue 4, Pages 926-938.	https://onlinelibrary.wiley.com/doi/full/10.1111/pbi.12839
2017			
2017	Asimakopoulou et al.	Altered mitochondrial and peroxisomal integrity in lipocalin-2-deficient mice with hepatic steatosis. Biochimica et Biophysica Acta (BBA) - Molecular Basis of Disease, Volume 1863, Issue 9, September 2017, Pages 2093-2110.	http://www.sciencedirect.com/science/article/pii/S0925443917301187
2017	Bakker et al.	Oxygen-Dependent Lipid Profiles of Three-Dimensional Cultured Human Chondrocytes Revealed by MALDI-MSI. Anal Chem. 2017 Sep 5;89(17):9438-9444.	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5588094/
2017	Bradshaw R.	MALDI Mass Spectrometry Profiling and Imaging Applied to the Analysis of Latent Fingermarks. In: Cole L. (eds) Imaging Mass Spectrometry. Methods in Molecular Biology, vol 1618. Humana Press, New York, NY	https://link.springer.com/protocol/10.1007/978-1-4939-7051-3_13
2017	Bradshaw et al.	Implementation of MALDI MS profiling and imaging methods for the analysis of real crime scene fingermarks. Analyst, 2017, 142, 1581-1590	http://pubs.rsc.org/-/content/articlehtml/2017/an/c7an00218a
2017	Cechová et al.	Towards Better Understanding of Pea Seed Dormancy Using Laser Desorption/Ionization Mass Spectrometry. Int. J. Mol. Sci. 2017, 18(10), 2196.	http://www.mdpi.com/1422-0067/18/10/2196
2017	Dilillo et al.	Mass Spectrometry Imaging, Laser Capture Microdissection, and LC-MS/MS of the Same Tissue Section. J. Proteome Res., 2017, 16 (8), pp 2993–3001.	http://pubs.acs.org/doi/abs/10.1021/acs.jproteome.7b00284
2017	Dilillo et al.	Ultra-High Mass Resolution MALDI Imaging Mass Spectrometry of Proteins and Metabolites in a Mouse Model of Glioblastoma. Nature Scientific Reports 7, Article number: 603	https://www.nature.com/articles/s41598-017-00703-w

2017	Fack et al.	Altered metabolic landscape in IDH-mutant gliomas affects phospholipid, energy, and oxidative stress pathways. EMBO Molecular Medicine (2017) e201707729. DOI 10.15252/emmm.201707729.	http://embomolmed.embopress.org/content/early/2017/10/20/emmm.201707729
2017	Flinders et al.	Optimization of Sample Preparation and Instrumental Parameters for the Rapid Analysis of Drugs of Abuse in Hair samples by MALDI-MS/MS Imaging. J. Am. Soc. Mass Spectrom. (2017) 28: 2462. https://doi.org/10.1007/s13361-017-1766-0	https://link.springer.com/article/10.1007/s13361-017-1766-0
2017	Francese et al.	An update on MALDI mass spectrometry based technology for the analysis of fingermarks – stepping into operational deployment. Analyst, 2017, 142, 2518-2546.	http://pubs.rsc.org/-/content/articlelanding/2017/an/c7an00569e/unauth#!divAbstract
2017	Gussenhoven et al.	The Paradoxical Effects of Chronic Intra-Amniotic Ureaplasma parvum Exposure on Ovine Fetal Brain Development. Dev Neurosci 2017;39:472-486.	https://www.karger.com/Article/Abstract/479021
2017	Hall et al.	Lipid zonation and phospholipid remodeling in nonalcoholic fatty liver disease. Hepatology, Volume 65, Issue 4, April 2017, Pages 1165–1180.	http://onlinelibrary.wiley.com/doi/10.1002/hep.28953/full
2017	Hamm and Stauber	US Patent US 9645138 B2. Method to evaluate the tissue targeting of a molecule of interest.	https://www.google.com/patents/US9645138
2017	Hart and Clench M.R.	MALDI-MSI of Lipids in Human Skin. In: Cole L. (eds) Imaging Mass Spectrometry. Methods in Molecular Biology, vol 1618. (2017) Humana Press, New York, NY	https://link.springer.com/protocol/10.1007/978-1-4939-7051-3_4
2017	Joye et al.	In situ metabolomic changes in rat hippocampus after acute cocaine administration. International Journal of Mass Spectrometry, 437:87-91.	https://doi.org/10.1016/j.ijms.2017.12.001oi.org
2017	Kunzke et al.	Native glycan fragments detected by MALDI-FT-ICR mass spectrometry imaging impact gastric cancer biology and patient outcome. Oncotarget. 2017 Sep 15; 8(40): 68012–68025.	https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5620232/
2017	Lackner et al.	Insights into the lifestyle of uncultured bacterial natural product factories associated with marine sponges. PNAS 2017, vol. 114 no. 3, E347–E356.	http://www.pnas.org/content/114/3/E347.full
2017	Lazova and Seeley	US Patent US20170154759A1: Mass spectrometry imaging of benign melanocytic nevi and malignant melanomas.	https://patents.google.com/patent/US20170154759A1/en

2017	Lerner et al.	Simultaneous lipidomic and transcriptomic profiling in mouse brain punches of acute epileptic seizure model compared to controls. Journal of Lipid Research, doi: 10.1194/jlr.M080093	https://www.ncbi.nlm.nih.gov/pubmed/29208697
2017	Patel E.	Fresh Frozen Versus Formalin-Fixed Paraffin Embedded for Mass Spectrometry Imaging. In: Cole L. (eds) Imaging Mass Spectrometry. Methods in Molecular Biology, vol 1618. Humana Press, New York, NY	https://link.springer.com/protocol/10.1007/978-1-4939-7051-3_2
2017	Patel E.	Peptide Imaging: Maximizing Peptide Yield, Optimization of the "Peptide Mass Fingerprint". In: Cole L. (eds) Imaging Mass Spectrometry. Methods in Molecular Biology, vol 1618. Humana Press, New York, NY	https://link.springer.com/protocol/10.1007/978-1-4939-7051-3_8
2017	Picard de Muller et al.	Automated Morphological and Morphometric Analysis of Mass Spectrometry Imaging Data: Application to Biomarker Discovery. J. Am. Soc. Mass Spectrom. (2017) 28: 2635.	https://link.springer.com/article/10.1007/s13361-017-1784-y
2017	Piga et al.	Ultra-high resolution MALDI-FTICR-MSI analysis of intact proteins in mouse and human pancreas tissue. International Journal of Mass Spectrometry, In press.	https://www.sciencedirect.com/science/article/pii/S1387380617303160
2017	Scott et al.	Host-based lipid inflammation drives pathogenesis in *Francisella* infection. PNAS, vol. 114 no. 47, 12596–12601.	http://www.pnas.org/content/114/47/12596.abstract
2017	Stauber et al.	US Patent US20170221687A1. Method for characterising a sample by mass spectrometry imaging.	https://patents.google.com/patent/US20170221687A1/en
2017	Sturtevant et al.	Lipid metabolites in seeds of diverse Gossypium accessions: molecular identification of a high oleic mutant allele. Planta, March 2017, Volume 245, Issue 3, pp 595–610.	https://link.springer.com/article/10.1007/s00425-016-2630-3
2017	Urban et al.	PAXgene fixation enables comprehensive metabolomic and proteomic analyses of tissue specimens by MALDI MSI. Biochimica et Biophysica Acta (BBA) - General Subjects. Volume 1862, Issue 1, January 2018, Pages 51-60	https://www.sciencedirect.com/science/article/pii/S0304416517303264
2017	Winter et al.	MALDI Mass Spectrometry Imaging: A Novel Tool for the Identification and Classification of Amyloidosis, Proteomics 2017, 17, 1700236.	http://onlinelibrary.wiley.com/doi/10.1002/pmic.201700236/full
2017	Yu et al.	.: Identification of bottlenecks in the accumulation of cyclic fatty acids in camelina seed oil. Plant Biotechnol J. Accepted Author Manuscript. doi:10.1111/pbi.12839.	http://onlinelibrary.wiley.com/doi/10.1111/pbi.12839/full#footer-article-info

2016			
2016	Bakker et al.	Oxygen regulates lipid profiles in human primary chondrocyte cultures. Osteoarthritis and Cartilage, Volume 24, Supplement 1, Pages S456–S457.	http://www.oarsijournal.com/article/S1063-4584(16)00852-9/abstract
2016	Barre et al.	Derivatization Strategies for the Detection of Triamcinolone Acetonide in Cartilage by Using Matrix-Assisted Laser Desorption/Ionization Mass Spectrometry Imaging. Anal. Chem., 2016, 88 (24), pp 12051–12059	http://pubs.acs.org/doi/abs/10.1021/acs.analchem.6b02491
2016	Beasley et al.	Detection and Mapping of Cannabinoids in Single Hair Samples through Rapid Derivatization and Matrix-Assisted Laser Desorption Ionization Mass Spectrometry. Anal Chem. 2016 Oct 18;88(20):10328-10334	http://pubs.acs.org/doi/pdf/10.1021/acs.analchem.6b03551
2016	Beine et al.	Tissue MALDI Mass Spectrometry Imaging (MALDI MSI) of Peptides Proteomics in Systems Biology Volume 1394 of the series Methods in Molecular Biology pp 129-150	http://link.springer.com/protocol/10.1007/978-1-4939-3341-9_10
2016	Bruinen et al.	Mass Spectrometry Imaging of Drug Related Crystal-Like Structures in Formalin-Fixed Frozen and Paraffin-Embedded Rabbit Kidney Tissue Sections J Am Soc Mass Spectrom. 2016 Jan;27(1):117-23.	http://link.springer.com/article/10.1007/s13361-015-1254-3
2016	Buck et al.	How Suitable is Matrix-Assisted Laser Desorption/Ionization-Time-of-Flight for Metabolite Imaging from Clinical Formalin-Fixed and Paraffin-Embedded Tissue Samples in Comparison to Matrix-Assisted Laser Desorption/Ionization-Fourier Transform Ion Cyclotron Resonance Mass Spectrometry?, Anal. Chem., 2016, 88 (10), pp 5281–5289	http://pubs.acs.org/doi/abs/10.1021/acs.analchem.6b00460
2016	Deininger et al.	Proteomics goes forensic: detection and mapping of blood signatures in fingermarks, Proteomics. 2016, Jun;16(11-12):1707-17.	http://onlinelibrary.wiley.com/doi/10.1002/pmic.201500544/full
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2 SunCollect as a MALDI-Spotter (in combination with Nano/Micro-HPLC)

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3 SunCollect as a micro fraction collector

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