

Publications list associated with LC-MS

Publications	Overview	Starting Tissue Types	Target Molecules
<p>Millennium Pharmaceuticals, 2004 Poster presented at ASMS 2004 for use of Covaris AFA in tissue disruption and compound extraction http://www.covarisinc.com/pdf/Millennium_poster.pdf</p>	Drug compound extraction from tissue (muscle, brain, liver, heart) using Covaris E-series , compare to Polytron; homogenize, dissolve; used LC/MS/MS : efficiency improvement, ease of use, throughput increase.	Muscle, brain, liver, heart	Drug compound
<p>Johnson & Johnson Pharmaceutical R&D, 2006 Poster presented at 2006 ASMS Conference on Mass Spectrometry-- using Covaris AFA for tissue homogenization prior to bioanalysis http://www.covarisinc.com/pdf/J&J_2006_ASMS_Poster.pdf</p>	Compound extracted from tissue using Covaris E- and S-series , then used LC/MS--chemical stability & assay quality measured--compound stable, ease of use, assay quality good	Rat brain	Compounds
<p>Ferring Pharmaceuticals, 2008 Poster on tissue freeze-fracture Covaris CryoPrep system with extraction by acoustic homogenization with Covaris S2 http://www.covarisinc.com/pdf/Poster_DMDG2007_ed.pdf</p>	Small molecule drug extracted from rat brain using Covaris CryoPrep and S2 , then used MS measurement--more efficient, no contamination, fast, no need for cleanup	Rat brain	Small molecule drug
<p>Charles River Laboratories, 2006 Poster presented at AAPS 2006 for use of Covaris AFA to homogenize Peripheral Blood Mononuclear Cells (PBMCs) http://www.covarisinc.com/pdf/Charles_RL_poster_2006.pdf</p>	Analyte & metabolite extracted from blood, then used LC/MS/MS--reproducible results	Blood	Analyte & metabolite
<p>Amgen, 2007 Poster presented at the 2007 ASMS for a method of tissue analysis using homogenization with Covaris AFA technology http://www.covarisinc.com/pdf/ASMS_Amgen_Poster.pdf</p>	Compound (gabapentin) extracted from rat spinal cord with Covaris E-series , then measured with LC/MS, check if drug pass blood/brain barrier--no contamination, reduce labor, increase throughput	Rat spinal cord	Chemical compound
<p>Amgen, 2006 Poster presented at the 2006 ASMS for a method for the determination of free drug in mouse brain by acoustic homogenization, ultracentrifugation and LC-MS/MS http://www.covarisinc.com/pdf/2006-ASMS-Poster-Covaris-HZ.pdf</p>	Compound extraction from tissue using Covaris E-series , then measured with LC/MS/MS	Mouse brain	Compound
<p>United States Army, 2008 Poster presented at 2008 American Society for Mass Spectrometry, Denver, Colorado to extract small molecules from skin tissue http://www.covarisinc.com/pdf/US_Army_ASMS.pdf</p>	Chemical warfare agent VX, extracted using Covaris CryoPrep and S2 , measured with GC-MS-MS	Skin tissue	Chemical warfare agent VX
<p>BG Medicine, 2008 Correlation network analysis for data integration and biomarker selection http://www.covarisinc.com/pdf/biomarker_selection.pdf</p>	Covaris E-series instrument was used to disrupt and homogenize tissue to extract protein	Blood, rat liver	Protein
<p>National Institute of Crop Science, Japan, 2008 Acoustic Technology for High-Performance Disruption and Extraction of Plant Proteins http://pubs.acs.org/doi/abs/10.1021/pr800012c?journalCode=jprobs</p>	Plant (rice, soybean) protein extracted, comparison with other tools	Plant tissue (rice, soybean)	Protein
<p>Millennium Pharmaceuticals, 2006 Article in Molecular Cancer Therapeutics, December 2006, Covaris E-series instrument used in sample preparation for proteasome enzymatic assays. Comparison of biochemical and biological effects of ML858 (salinosporamide A) and bortezomib (944kb) http://mct.aacrjournals.org/content/5/12/3052.full.pdf</p>	Covaris E-series used in proteasome enzymatic assays	Tumor, brain, blood, cells	Various samples collected for proteasome enzymatic assays
<p>Bayer CropScience, 2008 Article about using the Covaris AFA technology for HPLC Sample Preparation. Published on the web by ACS Publications, ASAP Journal of Combinatorial Chemistry, ASAP Article, 10.1021/cc800095v, September 13, 2008 http://pubs.acs.org/doi/abs/10.1021/cc800095v</p>	Sample prep for HPLC and LC/MS	Plant tissue	LC/MS, HPLC/MS fractions prepared