0. Unpublished

1. Picache, J. A.; Rose, B. S.; Balinski, A.; Leaptrot, K. L.; Sherrod, S. D.; May, J. C.; McLean, J. A. Collision Cross Section Compendium to Annotate and Predict Multi-Omic Compound Identities. Chem. Sci. 2019, 10 (4), 983–993.

2. May, J. C.; Goodwin, C. R.; Lareau, N. M.; Leaptrot, K. L.; Morris, C. B.; Kurulugama, R. T.; Mordehai, A.; Klein, C.; Barry, W.; Darland, E.; et al. Conformational Ordering of Biomolecules in the Gas Phase: Nitrogen Collision Cross Sections Measured on a Prototype High Resolution Drift Tube Ion Mobility-Mass Spectrometer. Anal. Chem. 2014, 86 (4), 2107–2116.

3. Hines, K. M.; May, J. C.; McLean, J. A.; Xu, L. Evaluation of Collision Cross Section Calibrants for Structural Analysis of Lipids by Traveling Wave Ion Mobility-Mass Spectrometry. Anal. Chem. 2016, 88 (14), 7329–7336.

4. Dodds, J. N.; May, J. C.; Mclean, J. A. Investigation of the Complete Suite of the Leucine and Isoleucine Isomers: Toward Prediction of Ion Mobility Separation Capabilities. Anal. Chem. 2017, 89 (1), 952–959.

5. May, J. C.; Jurneczko, E.; Stow, S. M.; Kratochvil, I.; Kalkhof, S.; McLean, J. A. Conformational Landscapes of Ubiquitin, Cytochrome c, and Myoglobin: Uniform Field Ion Mobility Measurements in Helium and Nitrogen Drift Gas. Int. J. Mass Spectrom. 2017, 427, 79–90.

6. Stow, S. M.; Causon, T. J.; Zheng, X.; Kurulugama, R. T.; Mairinger, T.; May, J. C.; Rennie, E. E.; Baker, E. S.; Smith, R. D.; McLean, J. A.; et al. An Interlaboratory Evaluation of Drift Tube Ion Mobility-Mass Spectrometry Collision Cross Section Measurements. Anal. Chem. 2017, 89 (17), 9048–9055.

7. Zheng, X.; Aly, N.; Zhou, Y.; Dupuis, K.; Bilbao, A.; Paurus, V.; Orton, D. J.; Wilson, R.; Payne, S.; Smith, R. D.; et al. A Structural Examination and Collision Cross Section Database for Over 500 Metabolites and Xenobiotics Using Drift Tube Ion Mobility Spectrometry. Chem. Sci. 2017, 8 (11), 7724–7736.

8. Nichols, C. M.; Dodds, J. N.; Rose, B. S.; Picache, J. A.; Morris, C. B.; Codreanu, S. G.; May, J. C.; Sherrod, S. D.; McLean, J. A. Untargeted Discovery in Primary Metabolism: Collision Cross Section as a Molecular Descriptor in Ion Mobility Spectrometry. Anal. Chem. 2018, 90 (24), 14484–14492.

9. Leaptrot, K. L.; May, J. C.; Dodds, J. N.; McLean, J. A. Ion Mobility Conformational Lipid Atlas in for High Confidence Lipidomics. Nat. Commun. 2019, 10 (985).

10. Nichols, C. M.; May, J. C.; Sherrod, S. D.; McLean, J. A. Automated flow injection method for the high precision determination of drift tube ion mobility collision cross sections. Analyst 143, 1556–1559 (2018)

11. Dodds, J. N.; Hopkins, Z. R.; Knappe; D. R. U.; Baker, E. S. Rapid Characterization of Per- and Polyfluoroalkyl Substances (PFAS) by Ion Mobility Spectrometry–Mass Spectrometry (IMS-MS). Anal. Chem. 2020, 92 (6), 4427–4435.

12. Davis, D. E.; Leaptrot, K. L.; Koomen, D. C.; May, J. C.; Cavalcanti, G. D. A.; Padilha, M. C.; Pereira, H. M. G.; McLean, J. A. Multidimensional Separations of Intact Phase II Steroid Metabolites Utilizing LC–Ion Mobility–HRMS. Anal. Chem. 2021, 93 (31), 10990-10998.

13. Belova, L.; Caballero-Casero, N.; van Nuijs, A. L. N.; & Covaci, A. Ion Mobility-High-Resolution Mass Spectrometry (IM-HRMS) for the Analysis of Contaminants of Emerging Concern (CECs): Database Compilation and Application to Urine Samples. Anal. Chem. 2021, 93 (16), 6428–6436.

14. Rose, B.S.; May, J.C.; Picache, J.A.; Codreanu, S.G; Sherrod, S.D.; McLean, J.A.; Improving confidence in lipidomic annotations by incorporating empirical ion mobility regression analysis and chemical class prediction, Bioinformatics, 2022;, btac197

15. Velosa, D.C; River, M.E.; Neal, S.P; Olsen, S.S.H, Burkus-Matesevac, A.; Chouinard, C.D. Toward Routine Analysis of Anabolic Androgenic Steroids in Urine Using Ion Mobility-Mass Spectrometry. Journal of the American Society for Mass Spectrometry 2022 33 (1), 54-61