

Scientific articles

MAPS Matrix

Giampà, Marco, et al. "**Maleic anhydride proton sponge as a novel MALDI matrix** for the visualization of small molecules (< 250 m/z) in brain tumors by routine MALDI ToF imaging mass spectrometry." *Chemical Communications* 52.63 (2016): 9801-9804.

C.D. Swor, L.N. Zakharov, D.R. Tyler. A colorimetric **proton sponge**. *J Org Chem*, **2010**,75, 6977.

Longuespée, Rémi, et al. "**Rapid detection** of 2-hydroxyglutarate in **frozen sections** of IDH mutant tumors by MALDI-TOF mass spectrometry." *Acta neuropathologica communications* 6.1 (2018): 21.

Shroff, Rohit, and Aleš Svatoš. "**Proton sponge: a novel and versatile MALDI matrix** for the analysis of metabolites using mass spectrometry." *Analytical chemistry* 81.19 (2009): 7954-7959.

Calibration

Sládková, Kateřina, Jan Houška, and Josef Havel. "Laser desorption ionization of **red phosphorus clusters** and their use for mass calibration in time-of-flight mass spectrometry." *Rapid Communications in Mass Spectrometry: An International Journal Devoted to the Rapid Dissemination of Up-to-the-Minute Research in Mass Spectrometry* 23.19 (2009): 3114-3118.

Gold slide

McLean, John A., Katherine A. Stumpo, and David H. Russell. "Size-selected (2– 10 nm) **gold nanoparticles** for matrix assisted laser desorption ionization of peptides." *Journal of the American Chemical Society* 127.15 (2005): 5304-5305.

Nayak, Ranu, and Daniel R. Knapp. "**Matrix-free** LDI mass spectrometry platform using patterned nanostructured **gold thin film**." *Analytical chemistry* 82.18 (2010): 7772-7778.