



What does a renal pathologist do with MALDI (imaging)

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Abstract: Although not used in daily routine, we use MALDI technology: Firstly, on routine samples, which cannot be solved by routine methods (including electron microscopy), as we showed for the new disease “bevacizumab associated glomerular microangiopathy”, which causes nephrotic syndrome in patients treated for cancer (anti-VEGF); another application is peptide-screening in amyloidosis-cases with yet unknown origin. Second, unclear pathophysiology of diseases in routine samples can profit from screening for protein expression. Third, the glycocalyx can be studied using MALDI imaging for glycan alterations opening a neglected world of morphological disease-associated changes.