



Monday, November 6, 2017

LSC 3 | 12:00 - 1:00PM

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“Detection of active forms of matrix metalloproteinases (MMPs) by activity-based probes and applications to nanomedicine.”

Matrix-metalloproteinases (MMPs) are over-expressed in several pathological tissues but the detection of their active forms over their inactive states (zymogen or complexes with natural TIMP inhibitors) is still an unresolved issue. This challenging task can be addressed by developing chemical probes interacting with the active site of these enzymes and able to tag active forms for detection (fluorescence or MS). Detection of MMP active forms has direct applications in nanomedicine where these proteases might be targeted by nanoparticles to deliver drug locally. Recent progresses toward these objectives will be reported and next challenges to overcome discussed.

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<http://tinyurl.com/cbrseminaronline>