MONDAY

A simple, inexpensive and general photoluminescent sensor platform for multiple analytes

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3 Mar 2025 (Monday) | 16:00 Hrs (Tea / Coffee 15:45 Hrs) | Venue: TIFRH Auditorium

Almost 15 years ago, we discovered a facile method to enhance the luminescence from lanthanides through the self-assembly of multiple components in a metallohydrogel. Using this strategy, we have developed a masked sensitizer ("pro-sensitizer") based protocol for sensing enzymes and a few small molecules. We have also found that some natural products and clinically used drugs can sensitize lanthanides. The gel-based platform, therefore, provides opportunities to detect and quantify such species as well.

This talk will highlight the progress we have made in this area focusing on the work done during the past 2-3 years.





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