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Multimodality molecular imaging of enzyme activity in vivo using activatable probes

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Precise measurement of enzyme activity in living systems with molecular imaging probes is becoming an important technique to unravel the functional roles of different enzymes in biological processes. Activatable probes whose imaging signal can be specifically switched from the “off” to “on” state upon interaction with a target of interest, are particularly attractive due to their improved sensitivity and specificity. In this talk, I will introduce the recent studies of development of activatable probes in our group, and highlight their applications for multimodality imaging (fluorescence, MRI and PET) of protease activity in living cells and animals.

※本講演会は HSI 事業「世界を先導する物質化学 II ～生体電気化学の基礎と応用」の講義の一部としても開催します。

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