



NCCR CHEMICAL
BIOLOGY

NCCR LECTURE SERIES

Invited speaker

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Thiol-based Redox Signaling

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Online (Zoom)
Registration
compulsory



About the talk

Redox signaling is a process by which endogenous oxidants, derived from metabolism, reversibly modify particular thiols on particular proteins to change their functional behavior in an adaptive manner. However, the molecular mechanisms of redox signaling remain largely unknown. In many cases, specificity and efficiency of redox signaling remain unexplained. An emerging solution to this conundrum is that redox signaling can be mediated and channeled by protein-to-protein redox relay chains. There is growing evidence that H_2O_2 signals are relayed through thiol peroxidases to neighboring proteins within supramolecular assemblies.