



CDB SEMINAR

Sophie Vriz

Paris Diderot University (Paris 7), France

Thursday, November 9, 2017

16:00-17:00 Seminar Room A7F

Redox signalling in development and regeneration

Summary

Reactive Oxygen Species (ROS) have long been considered toxic compounds. However, recent findings have shown that ROS contribute to bona fide physiological processes, leading to a new paradigm in reversible post translational modifications involved in signal transduction, known as redox signalling. We have developed genetic and optogenetic tools to record and manipulate H₂O₂ levels during zebrafish development and regeneration. This approach reveals an unexpected relationship between nerve, H₂O₂ and Shh signalling in morphogenesis and regeneration.

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