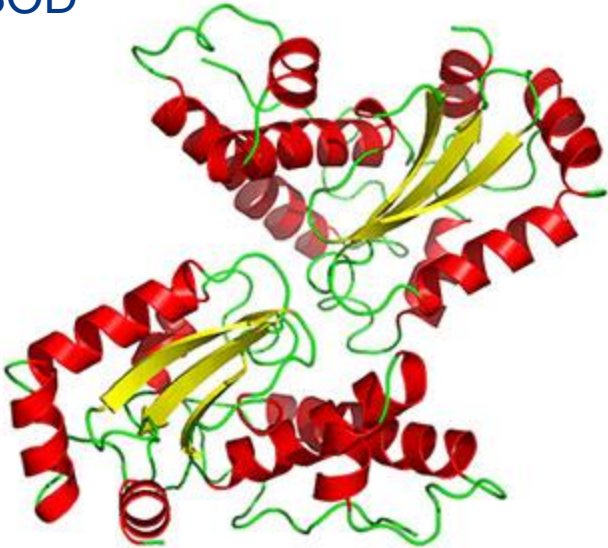


SOD: A Novel Effector of Rac1

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SOD



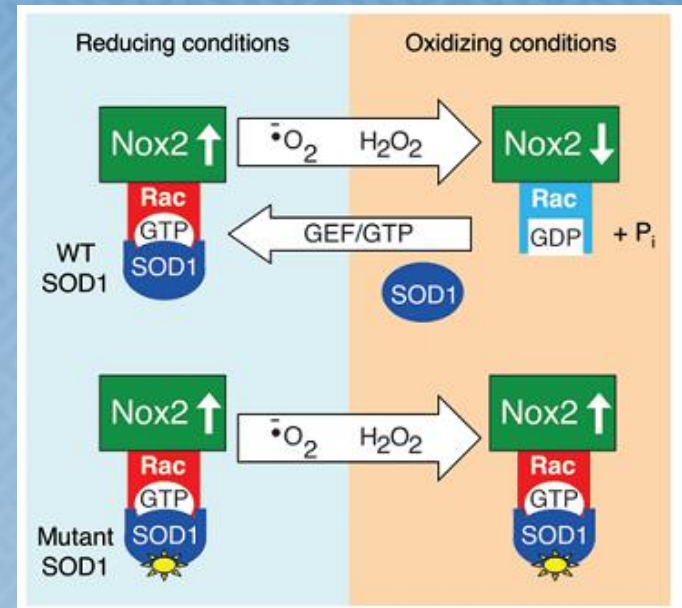
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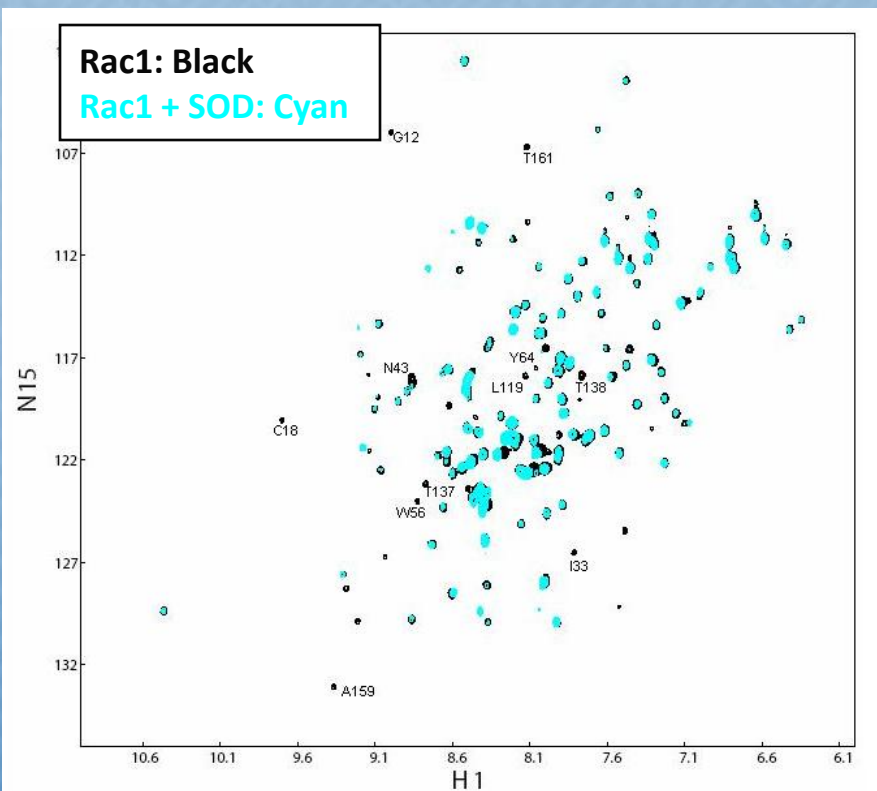
Does SOD act as an effector of Rac1?

Goals

- Characterize the relationship between Rac1 and SOD
- Quantitate intrinsic GDP dissociation and GDP dissociation in presence of SOD



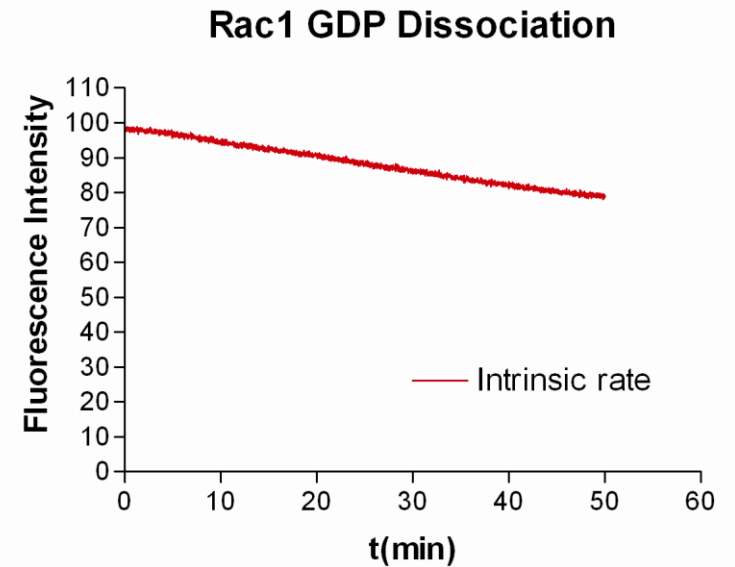
- Englehardt, et al. model based upon *in vivo* data, primarily pull down assays
- Authors describe novel, redox-dependent interaction between SOD and Rac1
- However, authors lack data towards quantitation and characterization of this relationship



- Prelim NMR data (left): spectral overlay of Rac1 alone and Rac1 in the presence of SOD shift spectral peaks in a manner indicating a specific protein-protein interaction

Results

- Rac1 successfully grown, extracted, and purified
- Fluorophore mant GDP synthesized
- Intrinsic dissociation of GDP quantitated



Fluorescence spectra of intrinsic GDP dissociation

