



## Thiol-based redox signaling and regulation: diversity of the thioredoxin system

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**Short Abstract:** Thioredoxins (Trxs) are key components of the redox system that regulates the activity of multiple target proteins through reversible dithiol-disulfide exchange reactions. Trxs are kept reduced in cells by members of the Trx reductase (TR) family. According to their evolutionary history, TRs have diverged, thereby leading to the emergence of variants of the enzyme that in combination with different types of Trxs meet the needs of the cell. In this talk, I will present a general overview of the thioredoxin system and describe recent structural studies on the diversity of its components.

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