

S-Nitrosylation, the **covalent** attachment of **NO** to a **cysteine** residue to form an S-nitrosothiol (SNO), (a posttranslational modification of protein cysteine thiol groups).

It operates as a fundamental mechanism for cellular **signaling** and accounts for the large part of NO bioactivity. S-nitrosylation is precisely targeted, reversible, spatiotemporally restricted and necessary for a wide range of cellular responses, including the prototypic example of red blood cell mediated autoregulation of blood flow that is essential for vertebrate life.

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