



Dipartimento di Biotecnologie e Bioscienze – UNIMIB

Thursday, September 14, 2023, 4:30 p.m., BIOS building, room U3-07 / Webex

G Protein-Coupled Receptor Kinase-2: A Potential Therapeutic Target for Cardiovascular Diseases

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Abstract: G protein-coupled receptor kinase 2 (GRK2) is known for its primary role in desensitizing G protein-coupled receptors (GPCRs). It phosphorylates agonist-bound GPCRs resulting in receptor desensitization and internalization. However, under pathological conditions, the expression and activity of GRK2 are upregulated, exacerbating the loss of contractility.

In addition to its well-established canonical role, noncanonical roles of GRK2 have been emerged in recent years. Due to its multiple binding sites, GRK2 engages in an expansive non-GPCR 'interactome'. Among these interacting partners, heat shock protein 90 (Hsp90) holds a distinctive role, acting as a chaperone that guides GRK2 to the mitochondria, where it exerts deleterious negative effects. Following ischemic and oxidative stress, extracellular signal-regulated kinases ...

Host: Antonio Zaza

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