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# Phosphodiesterases (PDEs): Therapeutic Targets in Human Health and Disease

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Deadline for manuscript submissions: **31 July 2024** 



In 1957, when Earl Sutherland and Ted Rall discovered cAMP as the first "second messenger" mediating the effects of hormones on liver and skeletal muscle, the field of signal transduction, the way in which cells communicate with each other and respond to external signals, was born. An enzymatic activity, cAMP phosphodiesterase (PDE), capable of converting cAMP to 5'-AMP, which terminates the messenger function of cAMP, was reported at the time of its discovery. To this end, efforts have been focused on which PDEs mediate which cell processes and on developing selective inhibitors of these PDEs to correct a wide variety of disease states. Drugs that target PDEs have now been approved for COPD, psoriasis, atopic dermatitis, erectile dysfunction, pulmonary hypertension, and heart failure. And this is only the tip of the iceberg, as they also show therapeutic benefits for a wide range of cancers, CNS disorders. autoimmune disorders. metabolic and disorders

The aim of this Special Issue is to highlight recent advances in targeting PDEs for therapeutic benefit, and we would be delighted to have you join us in this by submitting your recent work.





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