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Elucidation of epigenetic mechanisms underlying normal and disease biology

Epigenetics is defined as the study heritable alterations in gene function that occur without underlying changes in DNA sequence. Biologically, aging is linked with a gradual increase in molecular and cellular damage eventually leading to a decline in physiological reserves and an increased risk of developing diseases. It is now well established that a vast number of epigenetic changes, notably DNA methylation occur during the aging process.

Epigenetic changes offer the potential for maintaining health or reversing diseases by modulating the function of druggable proteins coded by genes with dynamic and reversible methylation changes.

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Keywords

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Autor: GUL, Sheraz (Fraunhofer Institute)

Co-Autoren: Herr ZALIANI, Andrea (Fraunhofer Institute); Dr. CLAUSSEN, Carsten (Fraunhofer Institute); Herr SEUM, Ferdinand (Fraunhofer Institute); Herr ASLAM, Jaleed (Cerascreen GmbH); Herr SCHNEIDER, Olaf (Cerascreen GmbH); Dr. GROTH, Philip (Cerascreen GmbH); Dr. PYO, Sung-Min (Pyo Labs Ltd); Frau BEIRNE, Tara (University of Ireland, Galway); Dr. BLUM, Wilfried (Cerascreen GmbH)