

Advancement of Epigenetics in Stroke Research

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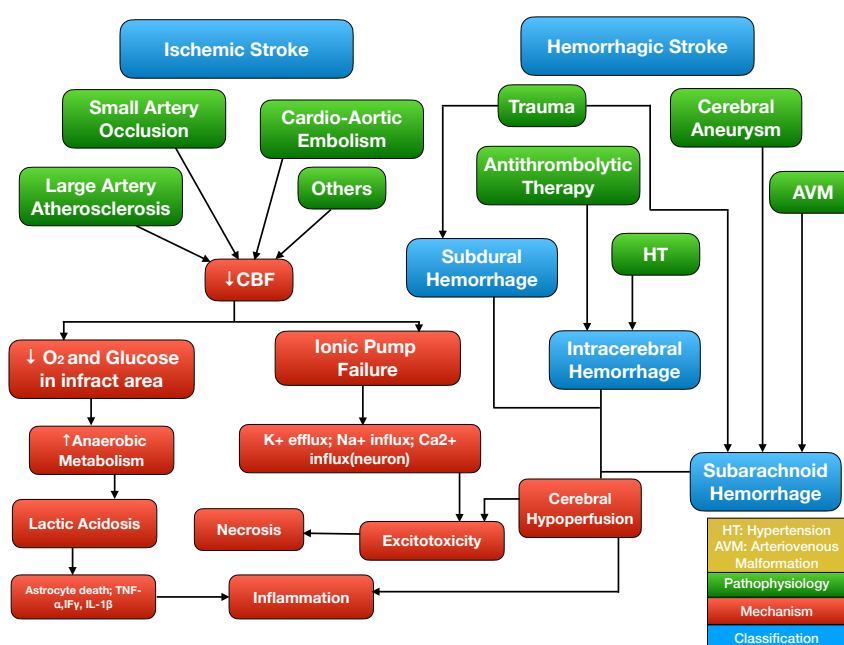
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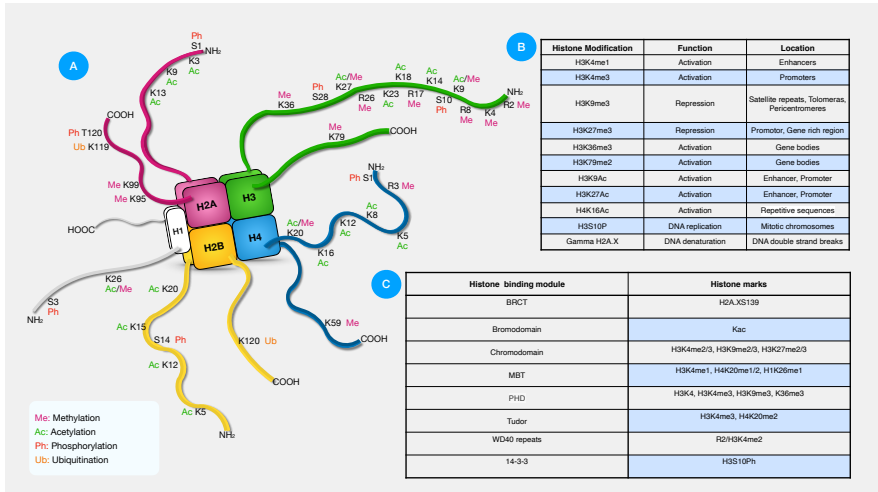
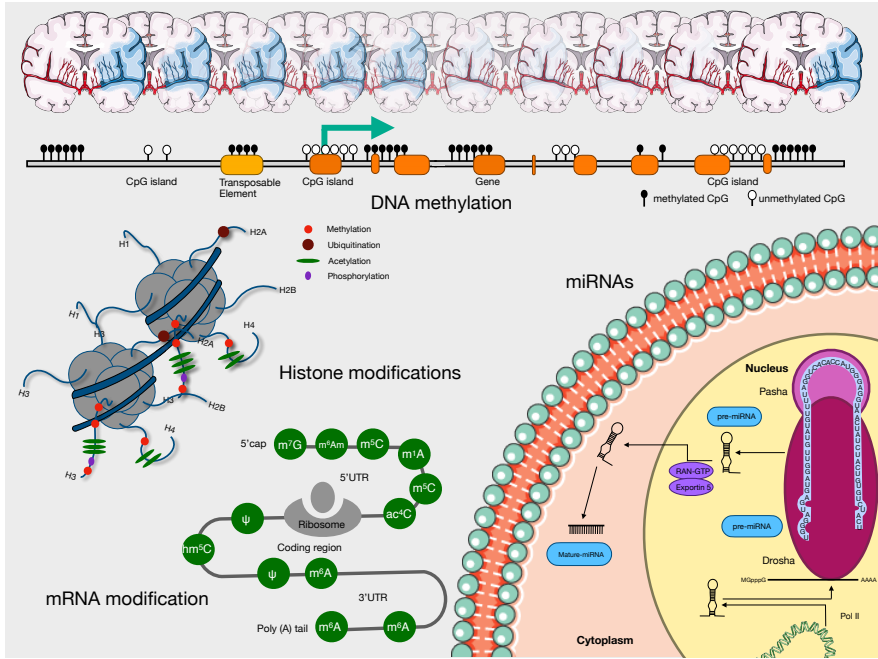
Abstract

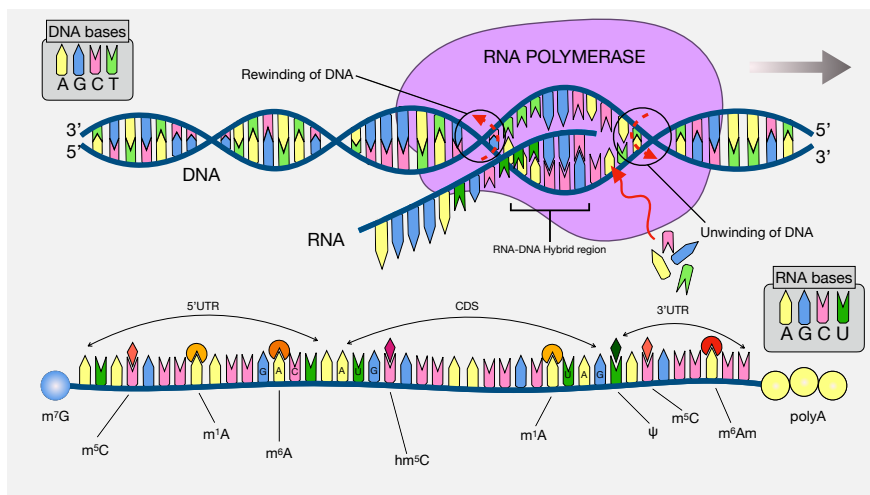
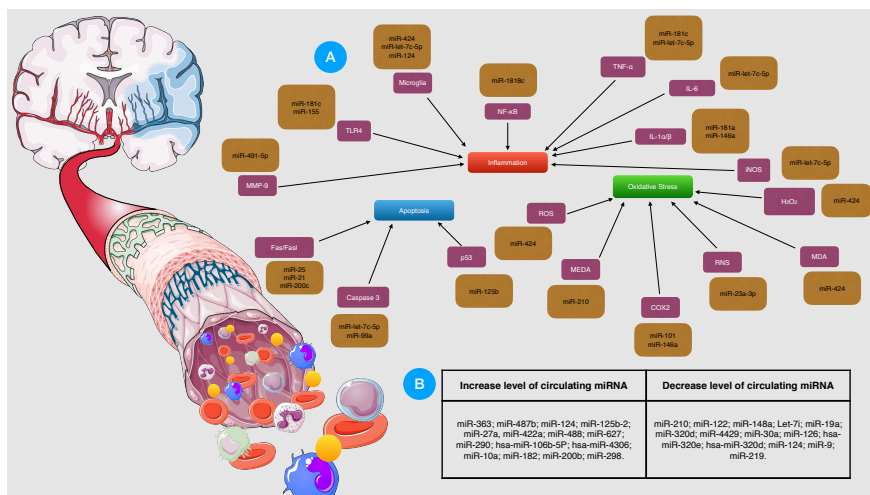
With the advancement of epigenetic tools and technologies associated with intervention medicine, stroke research has entered into a new fertile, dynamic era of epigenetic studies, a wide plethora of intervention procedure, administration of tissue plasminogen activator, the introduction of mechanical thrombectomy, clinical studies, and drug developments over the last decennium. Against this vivid background of newly emerging pieces of knowledge, there is little to none advancement in the overall outcome of the disease. The stroke involves an overabundance of inflammatory responses arising in part due to the body's immune response to brain injury. Neuroinflammation contributes to significant neuronal cell death and the development of functional impairment and death in stroke patients. Recent studies demonstrated epigenetic plays a key role in the overall outcome of the disease. In this review, we summarize the progress of epigenetics which provides an overview of recent advancements on the emerging key role of epigenetics over the last decade contributing to the regulation of neuroinflammation in stroke, potential epigenetic targets that might be key factors in the development of stroke therapies and their relation in respect to clinical practice.

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