

Special Issue

Advances and Applications of Gold Nanotherapeutics

Message from the Guest Editor

The treatment of complex pathological conditions, ranging from neurodegenerative conditions and neuropsychiatric disorders to cardiac diseases and severe skeletal muscle injuries, remains a clinical challenge because traditional pharmacological interventions have several limitations, including toxicity, rapid degradation, and an inability to effectively cross physiological barriers such as the blood–brain barrier (BBB). Gold nanoparticle (AuNP)-based therapeutics, such as curcumin and taurine with AuNPs, have become a highly versatile and groundbreaking platform to overcome these delivery barriers. This is because of their unique physicochemical properties, surface plasmon resonance, and high biocompatibility, which make them ideal nanocarriers for facilitating tissue-specific accumulation and altering specific gene expression and corresponding protein levels to alleviate these diseases.

Guest Editor

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