

Editorial



Biomedicine Advances: Shaping the future of biomedical research

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Received: August 5, 2024, Revised: August 14, 2024, Accepted: August 29, 2024, ePublished: October 1, 2024

The field of biomedicine has experienced significant advancements in recent years, propelled by the tireless efforts of researchers and clinicians worldwide. *Biomedicine Advances* journal, a peer-reviewed, open-access publication, is committed to highlighting the cutting-edge developments within this dynamic and rapidly-evolving field.

As indicated by the journal's scope, *Biomedicine Advances* explores a broad range of topics. These topics encompass the fundamental mechanisms that underlie disease pathogenesis, cutting-edge therapeutic strategies, and promising applications of emerging technologies. This multidisciplinary approach mirrors the complexity inherent in the biomedical field, where breakthroughs frequently emerge from the intersection of various disciplines. (By featuring articles that explore a broad range of topics, from fundamental disease pathogenesis to cutting-edge therapeutic strategies and emerging technologies, *Biomedicine Advances* aims to reflect the complexity of the biomedical field, where breakthroughs often arise at the intersection of multiple disciplines.)

Biomedicine Advances showcases significant advancements across various biomedical fields. Featured articles explore topics such as the functional recovery of ischemic human pluripotent stem cell-derived cardiomyocytes, the therapeutic potential of natural killer cell-derived extracellular vesicles in prostate cancer treatment, the clinical implications of iron deficiency anemia, cutting-edge regenerative medicine approaches for congenital heart diseases, and the promising effects of allopurinol in ST-elevation myocardial infarction patients.

Additionally, the journal examines epidemiological aspects of renal health, transcriptomic insights into cardiovascular biology and pathology, the beneficial effects of melatonin supplementation in obese women, and a comparative analysis of lipid abnormalities in patients undergoing hemodialysis and peritoneal dialysis.

Collectively, these wide-ranging and influential studies

Author's Biosketch

Professor Mehdi Hedayati is an esteemed biochemist currently serving at the Cellular and Molecular Research Center within the Research Institute for Endocrine Sciences at Shahid Beheshti University of Medical Sciences in Tehran, Iran. Holding a Ph.D. in Biochemistry, Professor Hedayati has dedicated his career to advancing research in the biochemical and genetic aspects of thyroid disorders, particularly thyroid cancer, as well as the biochemistry of obesity and diabetes. Throughout his career, Professor Hedayati has held various prominent academic positions, including Head of Cellular and Molecular Endocrine Research Center and Deputy of Research Institute. He has made significant contributions to the field through numerous impactful publications and by spearheading innovative research initiatives. Recognized as one of the leading biochemists in Iran, Professor Hedayati has been honored with accolades from Shahid Beheshti University and the Ministry of Health. His expertise has led to editorial roles in several esteemed scientific journals, and he has served on various health committees, demonstrating his commitment to both groundbreaking research and public health advancement.



emphasize the extensive and profound research occurring within the biomedical field. By sharing this knowledge, *Biomedicine Advances* strives to encourage continued innovation, promote interdisciplinary partnerships, and ultimately contribute to enhancing human health and well-being.

Moving forward, the journal maintains its dedication to publishing high-quality, innovative research that challenges the limits of our understanding and drives transformative progress in biomedicine. We encourage researchers, clinicians, and the broader scientific community to engage with *Biomedicine Advances* and contribute to the shared goal of advancing this dynamic and critical field.

