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Bridging Medical Science and Engineering for a Healthier Tomorrow

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Cover Letter for First Issue of Medico& Engineering Future

Abolfazl Mirani [a*]

[a]*Chief editor of Medico and Engineering Futre*

Abstract

It is with immense pride and excitement that I introduce to you the inaugural issue of the Medico & Engineering Future Journal (MEFJ). As the Chief Editor, I have had the privilege of overseeing the birth of this unique platform, which aims to bridge the gap between the medical and engineering disciplines. In today's rapidly evolving world, the intersection of medicine and engineering is more crucial than ever. Technological advancements are transforming healthcare delivery, diagnostics, and patient care, while innovative engineering solutions are enabling breakthroughs in medical science that were once thought impossible. The Medico & Engineering Future Journal is dedicated to showcasing pioneering research, emerging trends, and groundbreaking technologies that will shape the future of both fields.

In this first issue, we present a diverse range of articles that reflect the journal's interdisciplinary focus. From cutting-edge biomedical devices to advanced computational models for disease prediction, each paper has been carefully selected for its potential to contribute to the advancement of medical and engineering sciences.I would like to extend my heartfelt gratitude to the esteemed members of our editorial board, our authors, and our reviewers, whose dedication and expertise have been instrumental in making this first issue a reality. I also wish to thank our readers, whose curiosity and commitment to advancing knowledge drive the progress of these vital fields.

As we embark on this journey together, I invite you to engage with the content of this journal, to contribute your own research, and to join us in our mission to foster innovation at the crossroads of medicine and engineering. I am confident that the Medico & Engineering Future Journal will become a leading voice in these dynamic and interdependent fields. Thank you for your support and readership.

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* Corresponding author. Tel.: +98-9203273764; e-mail: info@mefjournal.com.

Dear Esteemed Colleagues, Researchers, and Readers,

It is with great honor and enthusiasm that I present to you the inaugural issue of the Medico & Engineering Future Journal (MEFJ). As the Chief Editor, I am thrilled to launch this interdisciplinary platform designed to serve as a bridge between the fields of medicine and engineering, fostering innovation and collaboration that will shape the future of healthcare and technology.

Aim & Scope

Our journal is founded on the principle that the convergence of medical and engineering disciplines is pivotal to advancing both fields and improving global health outcomes. We are committed to publishing high-quality, peer-reviewed research that offers new insights and technological advancements across a wide array of topics within medicine, biomedical engineering, and nanotechnology.

A) General Medicine

Aim:

Our aim is to disseminate groundbreaking and novel research in all areas of medicine, contributing to a healthier world. We invite researchers from across the globe to submit their valuable work and be a part of our mission to advance medical sciences. Each issue of our journal will feature peer-reviewed manuscripts that address clinically significant topics or explore pressing healthcare issues.

Scope:

We are dedicated to publishing research that spans a broad spectrum of medical disciplines, including but not limited to:

Clinical Trials: Phases I, II, and III studies, especially those conducted under established clinical research centers and cooperative groups.

Case Reports: Detailed reports of patients with common or rare diseases, emphasizing the natural history and therapy of significant conditions.

Reviews: Comprehensive reviews aimed at the practicing internist, including diagnostic puzzles and analytic reviews such as meta-analyses.

Physiological and Pharmacological Studies: In-depth studies that explore normal biological functions or the body's response to disease.

Medical Disciplines: Research encompassing various fields such as cardiology, dermatology, oncology, neurology, surgery, psychiatry, public health, and many more.

We are committed to publishing research that not only advances knowledge in these areas but also has the potential to impact clinical practice and healthcare delivery worldwide.

B) Biomedical Engineering and Research

Aim:

Our goal is to promote research that applies engineering principles to biological systems, driving innovation in areas such as artificial organs, biomedical imaging, and medical implants. We strive to be a platform for pioneering research that can improve patient outcomes and advance the field of biomedical engineering.

Scope:

The biomedical section welcomes research across a wide range of topics, including:

Bioelectric: Development of bioelectric devices, studies on tissue electrical properties, and innovations in electrotherapy.

Biomechanics: Research on human and animal movement, design of orthopedic implants, and applications in sports science and rehabilitation.

Radiation Medicine: Advances in medical imaging and radiation therapy, dosimetry, and the development of radiopharmaceuticals.

Biomaterials: Exploration of new biomaterials for medical use, biocompatibility studies, and innovations in drug delivery systems.

Bio Resonance: Investigation of resonance phenomena in biological systems and its applications in diagnostics and therapy.

Our aim is to publish research that pushes the boundaries of what is possible in biomedical engineering, ultimately contributing to the improvement of healthcare.

C) Nanotechnology

Aim:

The Nanotechnology section is focused on exploring and advancing the frontiers of nanotechnology in medicine. We aim to disseminate cutting-edge research that enhances the effectiveness, safety, and specificity of medical treatments through innovative applications of nanotechnology.

Scope:
We invite submissions in the following areas:

Nanotechnology for Drug Delivery: Research on nanotechnology-based drug delivery systems, including the development of nanocarriers and controlled release mechanisms.

Nanotechnology in Traditional Medicine: Integration of nanotechnology with traditional medicine, including clinical applications and modernization efforts.

Nanotechnology-based Platforms: Innovations in disease diagnosis and treatment, particularly for complex diseases such as cancer and HIV.

Safety and Toxicity Implications: Studies on the safety and toxicity of nanotechnology, especially concerning reproductive health.

AI in Nanotechnology: The role of artificial intelligence in enhancing nanotechnology for drug delivery and personalized medicine.

This section seeks to publish research that not only advances nanotechnology in medicine but also addresses the ethical and regulatory challenges associated with its use.

Join Us on This Journey

As we embark on this exciting journey, we invite you to engage with the research published in this journal, contribute your own studies, and be part of our mission to advance both medical and engineering sciences. The Medico & Engineering Future Journal is committed to being a leading voice in these dynamic fields, and we look forward to your participation and readership.

Thank you for your support.

Sincerely,
Dr. A. Mirani
Chief Editor

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