

Table of Contents

Preface

Problems of the Biomedical Technologies Development and Directions for their Solution Z. Yakhshieva, R. Kalonov, D. Kaigorodov, E. Kalinin, S. Chepur, E. Ivchenko and O. Mustaev	1
Scientific Approaches to the Creation of Biocompatible Implant Materials A. Markov, G. Soloviev, I. Petrov, K. Khamchiyeu, A. Shandaurov, S. Ibrayeva, A. Zhiyengaliyeva, A. Ostanin and K. Voronin	11
Correlation Analysis of Age, Functional and X-Ray Morphological Parameters of Osteotomies in Hallux Valgus T.B. Minasov, E.R. Yakupova, R.F. Khairutdinov, D. Ruziboev, R.M. Vakhitov-Kovalevich, D.R. Akhmeldinov and Y. Dorofeev	21
Biocompatibility as an Important Component of Dental Materials N. Mamatmusaeva, U. Tillaeva, B. Daminov, S. Saidkhodjaeva, M. Iskandarov, O. Malyugina, I. Kuznecov and A. Ponomarev	31
Facial Ganglia - Anatomy, Symptomatology of Lesions and Biological Relevance I. Lebedev, A. Bragin, Y. Boldyreva, A. Borsukov, A. Tersenov and G. Tersenov	41
Histological Features of Osteoarthritis in a State of Decompensation T.B. Minasov, E.R. Yakupova, D. Ruziboev, R.M. Vakhitov-Kovalevich, R.F. Khairutdinov, Y. Dorofeev and M. Maslova	51
Biomimetics - A Hint of Future Technologies in Nature B. Kulzhanova, D. Ongdassynkyzy, K. Ongdassynova, A. Duisenbay, T. Chaimerden, Y. Paromova and Y. Petrova	59
Biomedical Engineering as a Modern Component of Science in Biology and Medicine S. Shalkharov, Z. Shalkharova, Z. Shalkharova, K. Rysbekov, S. Shalkharova, Y. Paromova and Y. Petrova	67
Advances in Biomimetics in Imitation of the Laws of Nature M. Nasretidinova, G. Utemuratova, A. Dawletmuratov, A. Matveev, D. Kaigorodov, E. Kalinin and O. Mustaev	77
Interdisciplinary Approach of Biomedical Engineering in the Development of Technical Devices for Medical Research R. Hayaliev, S. Nurkhodjaev, N. Nazarova, J. Rizayev, R. Rahimberdiyev, T. Timokhina and I. Petrov	85