

## Section „BIOMEDICAL ENGINEERING“

### ***President:***

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### **About the Section**

The Section “Biomedical Engineering” (BME) at USB was established in 2006 on the initiative of Prof. Mikhail Matveev, M.Sc. in Physics and Ph.D. in the field of Medicine, then Director of the Central Laboratory of Biomedical Engineering “Prof. Ivan Daskalov” at BAS, Honorary member of USB (2021) and long-term chairman of the Section (until 2022), and Prof. Dr. Ivan Dotsinsky, D.Sc. in Technical Sciences, scientist and long-time lecturer in the field of Biomedical Engineering, creator and implementer of a number of methods and equipment for medical diagnosis and therapy.

The current president of the BME Section (since 2023) is Prof. Tania Pencheva, PhD, Director of the Institute of Biophysics and Biomedical Engineering at BAS, member of prestigious international scientific organizations, editorial boards of renowned international journals, chief organizer and member of Program and Organization Committees of international and national scientific forums.

In the past years the BME Section has comprised about 25 scientists with an academic position “Professor”, “Associate Professor”, “Senior Assistant”, and “Assistant”, including members with a D.Sc. degree in Technical, Medical, and Biological Sciences and Ph.D. degree, as well as PhD students, and specialists. The main staff includes researchers and specialists from the Bulgarian Academy of Sciences (Institute of Biophysics and Biomedical Engineering), the Technical University – Sofia (Faculty of Electronics and Electronic Technologies), University Hospitals – at the Medical University of Sofia, the National Cardiology Hospital, University Multiprofile Hospital for Active Treatment “St. Anna” – Sofia, etc. In 2023, the composition of the Section increased with 10 newly admitted members, mostly young scientists.

The scientific appearance, activity, and development of the BME section are determined by the great scientific authority of its members – Corr. Mem. of BAS Prof. Ilza Pajeva, D.Sc.; Corr. Mem. of BAS Prof. Georgi Mihov, D.Sc.; Corr. Mem. of BAS Prof. Stefan Hadzhitodorov, D.Sc.; Prof. Mikhail Matveev, Ph.D.; Prof. Ivan Dotsinsky, D.Sc.; Prof. Ivaylo Christov, D.Sc.; Prof. Tania Pencheva, Ph.D.; Prof. Olympia Roeva, Ph.D.; Prof. Irena Jekova, Ph.D.; Prof. Vessela Krasteva, Ph.D., etc.

A significant part of the members of the Section, in addition to national and international awards, are also winners of the USB awards for high scientific achievements: diplomas, certificates and monetary awards for young scientists up to 35 years of age and for scientists over 35 years of age.

Since its establishment, the BME section has been the organizer and co-organizer of numerous international and national scientific events, including conferences, symposiums, and seminars. Conditions have been created for the pooling and continuous exchange of scientific information and experience between scientists from related scientific associations in Bulgaria and abroad. The scientists in the BME section actively publish in prestigious international journals and collections, aiming for open access with a view to wider popularization of the obtained results. Funds from projects coordinated by the leading researchers – members of the Section are provided for award incentives to young scientists who participate in scientific events with topics from biomedical engineering and related scientific fields.

The section is active in discussing bills and regulations in the field of science in Bulgaria.