

Chronicle

Professor Budin Michov, MD, PhD, DSc



Prof. Budin Michov studied medicine in the High Medical Institute in Sofia. As a student he published his first book *Molecular mechanisms of bacterial inflammation*. After the medical education prof. Michov began working as assistant professor in the Department of Medical Biochemistry at the same high school. There he published many articles in international journals, specialized in biochemistry and after years in clinical laboratory, and published the book *Molecular Mechanisms of Inflammation and Allergy* (1977). Simultaneously he defended dissertations and received the scientific degrees PhD and DSc.

The articles of prof. Michov are devoted to different items: a new complex compound in TRIS-borate buffers, mobility calculation of composed ions, calculating the TRIS-borate ion mobility, ionic mobility parameter, simplifying the Henry function, electrophoresis in one buffer at two pH values, electrophoresis in expanded stationary boundary, TRIS-formate-taurinate buffer system for SDS electrophoresis in homogeneous polyacrylamide gels, electrophoresis of cerebrospinal-fluid proteins in agarose gels, geometric and electrokinetic radii and electric potentials of charged and dissolved particles, and more. He invented a new device for concentration gradient system, and buffer recirculator for electrophoresis.

Because of these publications he was invited by the editor-in-chief of the international journal *Electrophoresis* to work as a scientist in his laboratory at the Technical University of Munich in Germany.

Months after the start of his work in Germany, prof. Michov made a discovery (the most sensitivity analytical method for separating proteins in SDS gels), which he patented in Germany and EU. On the basis of this patent he founded own company in Germany. Later the largest biochemical company in Germany and Europe, SERVA in Heidelberg, employed him as a scientific advisor. Meanwhile the editor-in-chief of the 300-years old scientific publishing house Walter de Gruyter came to him from Berlin to Munich and asked him to write a book on electrophoresis in German. As a result, the book *Elektrophorese. Theorie und Praxis* (1996) in about 430 pages was published in Berlin and New York.

After nearly ten years work in Germany, Prof. Michov decided to return to Bulgaria to help his country. He took part in a competition for an associate professor at the Department of chemistry and biochemistry in the Medical University of Sofia and won it. Starting his habilitation, prof. Michov decided to publish a textbook for medical students to explain them why they should study chemistry. So, the book *Chemistry in Medicine* in nearly 800 pages appeared. Shortly after the book was published, a competition for a professor place was announced, and he submitted his documents. The leadership of Medical University, however, decided to expel him from the competition procedure and to give the professor place a person of the "internal" circle. Therefore, some colleagues sued prof. Michov for "plagiarism". The trial lasted about 6 years. All experts in court proved that no plagiarism existed, however, the competition procedure for the professor place failed and the health of prof. Michov was severely hurt.

After the court trial, prof. Michov realized that he could not continue his activity at the Medical University of Sofia, and took part in another competition procedure for a professor of medical biochemistry and head of the Department of Biochemistry in the newly established Second Medical Faculty at Sofia University St. Kliment

Ohridski. He won the competition and began working to develop a perfect biochemical department on the world level. However the chief of the Government hospital Lyubomir Spasov expelled him from the Medical Faculty making so that prof. Michov got only a half of the professor pension – 350 EURO. This is his pension until now!

After he was expelled from Sofia University St. Kliment Ohridski, prof. Michov gave lectures and examined students for a short time in the Medical colleges in Vratsa and Sofia (Yordanka Filaretova), but the government of Medical University of Sofia expelled him, too.

After his dismissing, without any material support, prof. Michov published his books *Encyclopedia of Molecular Medicine* and the historical book *Red Water*. In the last book he described the struggle of his ancestors against the Turkish slavery. Later the publishing house Walter de Gruyter in Boston and Berlin published the worldwide largest monography *Electrophoresis. Theory and Practice* by prof. Michov.

Encyclopedia of Molecular Medicine, Sofia (2018)

The book *Encyclopedia of Molecular Medicine* is dedicated to the molecular bases of medicine. There is no analogue of it in the world literature. On 930 pages in two columns (all about 2000 A4 pages) *Encyclopedia of Molecular Medicine* represents the latest data and theories of medical biochemistry, molecular pathology and molecular pharmacology. In its beginning, as a helping part, the fundamentals of chemistry are described, too.

The book contains a rich illustrative material, represented by hundreds of chemical formulas and figures in color or in black and white. The *Encyclopedia of Molecular Medicine* contains also a glossary of terms, a subject index, *etc.* It analyzes the molecular mechanisms of inflammatory and allergic diseases, genetic and tumor diseases, of the diseases of nervous system, liver, kidneys, lungs, immune system, blood, and circulatory system.

The publishing house Walter de Gruyter in Boston and Berlin has proposed prof. Michov and signed with him a contract for publishing the same book under the title *Molecular Medicine*. It should appear in three years. The advertising of this book has begun worldwide.

Electrophoresis. Theory and Practice, Walter de Gruyter, Berlin – Boston (2020)

It was a challenge and a hard work by prof. Michov to write the book *Electrophoresis. Theory and Practice* using own works and the great progress in protein and nucleate electrophoresis in the last years. On about 900 pages this book is the largest book on electrophoretic methods all over the world, which serves as a guide for studying DNA, RNA and proteins. It is offered everywhere in the world, by Amazon, too.

Meanwhile Cambridge Scholars Publishing invited and signed with prof. Michov a contract obliged him to write a textbook for the students in Cambridge University. This book, titled *Electrophoresis Fundamentals*, is in press now and will appear soon in Great Britain, USA, Australia, Canada, India, China and other countries to help students in their modern education.

Angel S. Galabov

