

AKTIVNOSTI DRUŠTVA MEDICINSKIH BIOHEMIČARA SRBIJE SOCIETY OF MEDICAL BIOCHEMISTS OF SERBIA ACTIVITY

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Istorijski razvoj

Društvo medicinskih biohemičara Srbije (ranije Jugoslavije – DMBJ) osnovano je 1955. godine, mada medicinski biohemičari Srbije otpočinju da se okupljaju u svojim stručnim udruženjima odmah posle Drugog svetskog rata. Naime, još pre 1950. godine u Farmaceutskom društvu Srbije sastajali su se laboratorijski stručnjaci, od kojih su naročito bili aktivni prof. dr Aleksandar Damanski za bromatologiju, prof. dr Momčilo Mokranjac za toksikologiju i doc. dr Pavle Trpinac za biohemiju. Sekcija za sanitarnu hemiju, koja je objedinjavala sva tri profila laboratorijskih radnika i to medicinske biohemičare osnovana je prvog januara 1951. godine. Kasnije je ova Sekcija preimenovala u Sekciju za medicinsku biohemiju Srbije, čiji je prvi predsednik bio Dr Pavle Trpinac.

Maja 1971. godine Društvo medicinskih biohemičara Jugoslavije postalo je 28. članica Međunarodne federacije za kliničku hemiju (International Federation for Clinical Chemistry, IFCC). U to vreme predsednik DMBJ bila je primarijus Tatjana Plećaš-Drljača, srpski medicinski biohemičar, a predsednik IFCC-a je bio Dr Martin Rubin. Društvo medicinskih biohemičara Srbije takođe je član Evropske federacije za kliničku hemiju i laboratorijsku medicinu (EFCC) i regionalne Balkanske kliničko-laboratorijske federacije (BCLF).

Godine 2010. DMBS je obeležilo 55-godina svog postojanja i rada u kojima je kao članica IFCC-a i EFCC služilo i potpomagalo razvoju kliničke hemije i laboratorijske medicine kako u Srbiji tako i šire.

Ciljevi Društva

Cilj Društva medicinskih biohemičara Srbije (DMBS) je da okuplja medicinske biohemičare radi unapređivanja i razvoja svih grana medicinske biohemije u zdravstvenoj delatnosti. Zadaci Društva se sastoje u ujednačavanju standarda rada u kliničko-biohemijskim laboratorijama, edukaciji medicinskih biohemičara na svim nivoima obrazovanja, podsticanju

Historical Background

The Society of Medical Biochemists of Serbia (former Yugoslavia – YuSMB) was established in 1955, although medical biochemists (clinical chemists) of Serbia had already joined together in professional associations after the World War II. Even before 1950, the Pharmaceutical Society of Serbia hosted laboratory experts, among whom the most active were Prof. Dr. Aleksandar Damanski in Bromatology, Prof. Dr. Momčilo Mokranjac in Toxicology and Assistant Professor Dr. Pavle Trpinac in Biochemistry. Firstly, the Section for Sanitary Chemistry, combining medical biochemists, sanitary chemists and toxicologists, was founded on January 1st, 1951. Later on this Section grew to become the Serbian Section for Medical Biochemistry, the first President of which was Dr. Pavle Trpinac. In May 1971, the Society of Medical Biochemists of Yugoslavia became the 28th member of the International Federation of Clinical Chemistry (IFCC). At that time the president of YuSMB was Tatjana Plećaš Drljača, Serbian medical biochemist. The Society of Medical Biochemists of Serbia is also a member of European Federation of Clinical Chemistry and Laboratory Medicine (EFCC) and the regional Balkan Clinical Laboratory Federation (BCLF) organization. In 2010 the Society of Medical Biochemists of Serbia celebrated 55 years of its existence and work, that as member of IFCC and EFCC serving and supporting Clinical Chemistry and Laboratory Medicine both in Serbia and globally.

The Aim of the Society

The purpose of the Society of Medical Biochemists of Serbia (SMBS) is to engage all medical biochemists in development and improvement of all the branches of medical biochemistry in health service. Its tasks are the following: to standardize operations in clinical biochemical laboratories, the education of young biochemists on all levels, to encourage scientific research, to set up of working standards, and to implement ethics

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naučno-istraživačkog rada, utvrđivanju normativa rada i sprovođenju, primeni i poštovanju kodeksa etike zdravstvenih radnika. Utvrđene standarde u oblasti medicinske biohemije DMBS predlaže odgovarajućim republičkim institucijama. Zadatak Društva je da omogućuje razmenu iskustava svojih članova sa članovima srodnih organizacija u zemlji i u inostranstvu.

Organizacija Društva

Društvo je 2006. godine preimenovano u Društvo medicinskih biohemičara Srbije (DMBS). Društvom upravljaju Izvršni odbor i Skupština. Društvo svoju aktivnost ostvaruje kroz rad više komiteta i to za: nauku, edukaciju, kongresnu aktivnost, standardizaciju, organizaciju i tehnologiju rada laboratorijske službe, kontrolu kvaliteta, kao i menadžment kvalitetom i akreditaciju, saradnju sa industrijom, istorijat medicinske i kliničke hemije, etički komitet i komitet za saradnju sa IFCC, EFCC, BCLF i srodne organizacije u zemlji i inostranstvu.

U Društvu medicinskih biohemičara Jugoslavije ostvaruje se redovno članstvo, pridruženo članstvo firmi i članstvo studenata (oko 700 članova). Takođe je izražena tendencija učlanjivanja drugih profila iz srodnih prirodnih i medicinskih disciplina. Kao član svih relevantnih međunarodnih stručnih i naučnih organizacija za kliničku hemiju i laboratorijsku medicinu (IFCC, EFCC, BCLF) Društvo uspešno odgovara svojim zadacima na međunarodnom planu.

Profesionalne aktivnosti

Od svog osnivanja Društvo ostvaruje značajne aktivnosti u svim oblastima kliničke hemije, a shodno uputstvima i strateškom opredeljenju IFCC-a. Glavne aktivnosti Društva su na polju edukacije i organizacije laboratorijske službe, spoljašnje kontrole kvaliteta, kongresne i izdavačke delatnosti. U saradnji sa Farmaceutskim fakultetom Društvo je izradilo programe edukacije na dodiplomskom i posle diplomskom nivou (magistarske, doktorske studije, specijalizacije) i to kroz 5-godišnje studije medicinske biohemije i 4-godišnje specijalističke studije. Veoma značajnu ulogu u osnivanju specijalizacije iz medicinske biohemije u Jugoslaviji imao je Profesor Ivan Berkeš, kao utemeljivač medicinske biohemije i kliničke enzimologije.

Društvo medicinskih biohemičara Srbije saraduje sa Ministarstvom zdravlja u organizaciji laboratorijske službe na svim nivoima zdravstvene zaštite (primarnom, sekundarnom i tercijernom) a u svrhu primene planova edukacije, organizacije, nabavke opreme itd. Društvo medicinskih biohemičara Jugoslavije uvelo je 1965. godine program sprovođenja spoljašnje kontrole kvaliteta u laboratorijama pod nazivom YUNE-QAS, koja se od skora izvodi pod nazivom SNEQAS. Ovaj program omogućava procenu rada laboratorija

codes and monitor the compliance of health workers. The SMBS is also involved in promoting systemized standards in the field of medical biochemistry, with the relevant republican institutions and in facilitating exchange of experiences between its members with the members of affiliate associations at home and abroad.

Society Organisation

In 2006 the Society was renamed to the Society of Medical Biochemists of Serbia (SMBS). The Society is run by the Executive Board and the Assembly and acts through various committees for: science, education, congress activity, standardization, organization and technology of laboratory services, quality control, as well as quality management and accreditation, cooperation with industry, history of medical biochemistry and clinical chemistry, award committee, ethics committee, and committee for cooperation with IFCC, EFCC, BCLF, and related organization in country and abroad. The Society of Medical Biochemists has a wide net of regular members, associate members and student members (over 700). There is a growing tendency for other experts from related natural and medical disciplines to become members as well. As a member of all international expert and scientific organizations for clinical chemistry and related disciplines, i.e. laboratory medicine (International Federation of Clinical Chemistry and Laboratory Medicine, IFCC; European Federation of Clinical Chemistry and Laboratory Medicine, EFCC; and Balkan Federation of Clinical Laboratory, BCLF) the Society is involved in cooperation on an international scale.

Professional Activities

Since its establishment the Society has undertaken significant activities in all fields of clinical chemistry, according to guidelines and orientation of the IFCC. The main activities of the Society are in the fields of education, and the organization of laboratory services, external quality control, conferences and publishing. In collaboration with the Faculty of Pharmacy, the Society has devised education programs for undergraduate and postgraduate clinical chemists (master's degree and residency) through which full-time 5-year studies for medical biochemists and subsequent 4-year advanced training is being successfully completed. A very important role in establishing the specialization of medical biochemistry in Yugoslavia and Serbia was played by Professor Ivan Berkeš, as the founder of medical biochemistry and clinical enzymology. The Society of Medical Biochemists of Serbia has collaborated with the Ministry of Health, for the organization of laboratory services within all segments of the healthcare service (primary, secondary, and tertiary healthcare) in terms of implementing plans of action, education, organization,

i stalno poboljšanje istog u svim kliničko-biohemijskim laboratorijama u Srbiji.

Radi unapređenja i poboljšanja kvaliteta laboratorijske službe Društvo je zajedno sa Institutom za medicinsku biohemiju Kliničkog centra Srbije i Akreditacionim telom Srbije (ATS) 2000. godine otpočelo sa uvođenjem sistema menadžmenta kvalitetom prema standardu ISO 9001 i akreditacije prema standardima ISO 17025 i ISO 15189.

Društvo medicinskih biohemičara Srbije radilo je aktivno na inicijativi i osnivanju Komore biohemičara Srbije kako profesionalne organizacije koja okuplja medicinske biohemičare kako zdravstvene radnike.

Izdavačka delatnost

Društvo ostvaruje značajnu izdavačku delatnost. Članovi Društva učestvovali su u pripremi niza stručnih uputstava iz oblasti medicinske biohemije na republičkom i ranije na federalnom nivou. Preko 25 godina Društvo je izdavalo časopis »Jugoslovensku medicinsku biohemiju«, koji je 2007. godine preimenovan u *Journal of Medical Biochemistry*. Društvo je takođe izdalo veći broj knjiga i monografija svojih članova. Vredno je pomenuti monografiju »Razvoj medicinske biohemije u Jugoslaviji« autora N. Majkić-Singh, J. Đurđević i J. Kavirić u kojoj je opisan kompletan razvoj medicinske biohemije u našoj zemlji počev od srednjeg veka do danas.

Kongresna aktivnost

Prvi stručni i naučni sastanak medicinskih biohemičara u Jugoslaviji održan je 1955. godine u Zagrebu, a prvi kongres medicinskih biohemičara Jugoslavije održan je takođe u Zagrebu 1963. godine. Svaki novi kongres predstavljao je novi kvalitet i vidni napredak razvoja struke.

Danas Društvo redovno organizuje kongrese (svake dve godine), Biohemijske dane (svake godine), Novine u laboratorijskom medicini (svake godine u okviru Sajamske izložbe »Medifarm«), kao i kurseve kontinuirane medicinske edukacije.

Kao članica Balkanske kliničko-laboratorijske federacije Društvo medicinskih biohemičara Srbije do sada je organizovalo dva kongresa Balkanske kliničko-laboratorijske federacije i to Četvrti u Budvi (1996. godine) i Jedanaesti (2003. godine) u Beogradu. Plenarna predavanja sa oba kongresa štampana su u vidu monografije *Advances in Laboratory Medicine* (DMBJ, 1996. godina) i *Jugoslovenskoj medicinskoj biohemiji* (Vol. 23, broj 3, 2004. godina).

Do sada je Društvo medicinskih biohemičara Srbije organizovalo šesnaest kongresa, a povodom 55-godišnjice osnivanja i rada Društvo je organizovalo XVII kongres medicinske biohemije i laboratorijske medi-

equipment, etc. In addition, a program of external quality control has been carried out since 1965 within the laboratories organized by the Society of Medical Biochemists (YUNEQAS), recently known as SNEQAS program. External quality assessment is implemented throughout our health system, which allows continual improvement of the workflow in all clinical-biochemical laboratories in Serbia. To improve and maintain the quality of services, the Society, together with the Institute of Medical Biochemistry of the Clinical Center of Serbia and the Accreditation Body of Serbia (ATS) in 2000 started working on the introduction of quality management system according to standard ISO 9001, and accreditation to ISO 17025 and ISO 15189.

Publishing Activity

The Society is involved in significant publishing activity. Experts of the Society have participated in the preparation of published professional methodological guidebooks for the field of medical biochemistry through the Republic and Federal Ministries of Health. For over 25 years, the Society has published the journal »Jugoslovenska Medicinska Biohemija« (Yugoslav Medical Biochemistry), renamed in 2007 to »Journal of Medical Biochemistry«, as well as a series of books and scientific literature written by its members. It is worth mentioning that the Society published a monograph with the title »Development of Medical Biochemistry in Yugoslavia« (Majkić-Singh N, Đurđević J, Kavarić J, 1998), illustrating the development of medical biochemistry in our country since the Middle Ages.

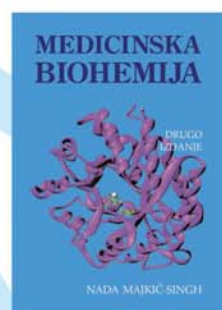
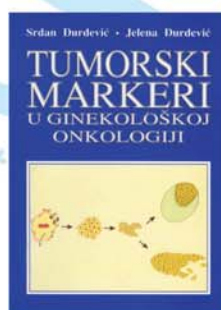
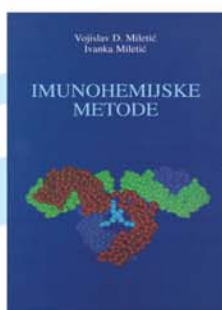
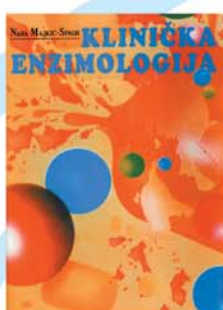
Congress Activity

The first professional and scientific meeting of medical biochemists in Yugoslavia was held in 1955 in Zagreb, and the first Congress of Medical Biochemists of Yugoslavia was held in 1963 in the same town. Each new congress was a step forward in the development of science and quality. At present, the Society is involved in the organization of congresses (biennial), and events such as Biochemical days (every year), and Innovations in laboratory medicine (every year, International Fair on Medical Equipment Medipharm, Belgrade). The Society regularly organizes courses for continuous medical education of clinical chemists. In addition, as a member of the Balkan Clinical Laboratory Federation, the Society of Medical Biochemists of Serbia organized two congresses of Balkan Clinical Laboratory Federation, the Fourth Congress in 1996 in Budva and the 11th Congress in 2003 in Belgrade. Plenary lectures presented at both congresses are published in the monograph *Advances in Laboratory Medicine* (YuSMB, 1996) and »Yugoslav Medical Biochemistry«, Volume 23 (3), 2004. Since now the Society of Medical Bio-

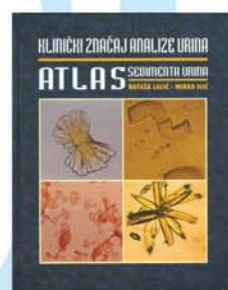
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Izdavačka delatnost

DMBS knjige



DMBS monografije



DMBS časopis



Stručna uputstva



CDrom



cine i 6th EFCC Symposium for Balkan Region sa značajnim učešćem stručnjaka iz IFCC-a, EFCC i BCLF.

Godine 1997. Društvo je ustanovilo Naučnu konferenciju »Profesor Ivan Berkeš« posvećenu osnivaču medicinske biohemije i kliničke hemije u Jugoslaviji i Srbiji, koja se svake godine održava u Beogradu (do sada je održano dvanaest konferencije), a povodom koje se dodeljuju nagrade najuspešnijim studentima Farmaceutskog fakulteta.

Članovi Društva medicinskih biohemičara Srbije aktivno učestvuju na svim IFCC i drugim relevantnim kongresima i konferencijama iz oblasti kliničke hemije i laboratorijske medicine što doprinosi unapređenju primene standardnih procedura u dijagnostici, formiranju protokola i uniformnoj organizaciji rada svih laboratorija u zemlji.

Druge aktivnosti

Društvo medicinskih biohemičara Srbije osnovalo je dva Fonda iz pijeteta prema svojim članovima Profesoru Ivanu Berkešu i Magistri Milici Marković, iz kojih se prilikom održavanja naučnih i stručnih konferencija dodeljuju nagrade najboljim studentima farmacije i medicinskim biohemičarima, članovima Društva.

Društvo ima Centar za kontinuiranu medicinsku edukaciju, koji je zadužen za organizaciju i izvođenje ove vrste edukacije za medicinske biohemičare.

Etički komitet Društva brine se o sprovođenju i primeni etike i kodeksa svojih članova, dok Komitet za nagrade prepoznaje i predlaže pojedince i organizacije za priznanja Društva, koji su dali značajan doprinos unapređenju kliničke hemije i laboratorijske medicine u Srbiji i šire u svetu.

chemists of Serbia organized seventeen congresses. For the occasion of the 55th Anni versary, the Society organized the 6th EFCC Symposium for Balkan region and XVIIth Congress of Medical Biochemistry and Laboratory Medicine (Belgrade, October 2010) with important participants from IFCC, EFCC and BCLF. The Society established the »Professor Ivan Berkeš« Scientific Conference, devoted to the founder of Medical Biochemistry and clinical chemistry in Yugoslavia and Serbia, which takes place in Belgrade every year (twelve scientific conferences have been organized so far). On the occasion of this Conference, the Society awards a prize to the most successful graduated students of the Faculty of Pharmacy. The members of the Society of Medical Biochemists of Serbia actively participate in all IFCC and other relevant Congresses and Conferences in the field of clinical chemistry and laboratory medicine. This participation promotes the implementation of standard procedures for diagnosis, forming of protocol and implementing uniform organization in all laboratories in the country.

Other Activities

The Society of Medical Biochemists of Serbia founded two Fund on behalf of Professor Ivan Berkeš and Magistra Milica Marković. During the scientific and professional conferences organized each year the Society awarded the best students of the Pharmaceutical Faculty and clinical chemists, Society members. The Society has Centre for Continuing Medical Education who organized education for medical and clinical chemists in Serbia. Ethics Committee take care of personal and professional ethics or codes of behaviour of the Society members. The Awards Committee Recognizes an individual or organization who has made outstanding contributions to the Society and promoting Clinical Chemistry and Laboratory Medicine in Serbia and globally.

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