СРПСКО ФАРМАКОЛОШКО ДРУШТВО
SRPSKO FARMAKOLOŠKO DRUŠTVO

SERBIAN PHARMACOLOGICAL SOCIETY

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Dear colleagues,

It gives me great pleasure to recommend a laboratory equipment company Elunit Belgrade intended for *in vitro* pharmacological and *in vivo* tests. In a last 20 years, we were able to work on the world's leading equipment manufacturers in this field. Now we can say, with great responsibility, that the equipment of company Elunit has excellent quality, and the prices of their products are appropriate for our scientists. During our work we have used the system for registering changes in smooth muscle tone of different isolated organs (blood vessels, uterus and intestine) with the software processing of received signals. The major advantage in using the equipment Elunit is the possibility of a quick service, as well as the possibility to update and improve software components.

President of the Serbian Pharmacological Society

Prof. Ljiljana Gojković-Bukarica

Lj Bukarica

УНИВЕРЗИТЕТ У БЕОГРАДУ МЕДИЦИНСКИ ФАКУЛТЕТ
ИНСТИТУТ ЗА ФИЗИОЛОГИЈУ
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I met Mr.Radomir Mazinjanin of the ElUnit Company in 1991. At that time, I was a teaching assistant at the Department of Pharmacology of the School of Pharmacy in Belgrade, and I was routinely perform experiemnts in the field of pharmacology of blood vessels, using the bridges and electro-mechanical transducers that weere manufactured by the ElUnit Company. In 1994, I was appointed as a teaching assistant at the Institute of Physiology of the School of Medicine in Belgrade. Immediately after taking duties and responsibilities of the position, I ordered a bridge and an electromechanical transducer from the ElUnit Company and I have been successfully performing the experiments,using the instruments indicated above. In 1997, using this equipment I sucessfully completed MSc thesis and submit PhD thesis that was approved by the end of the year. I also used this equipment for the experiments that resulted in numerous presentations and articles that were presented and published both in FR Yugoslavia and abroad.A reliable equipment strongly contributed to the results that were widely recognized among professionals and, indirectly, positively influence decision making process that followed application for the Fellowship Award of the European Society of Cardiology. The first part of the fellowship I spent at the University of Antwerp, Belgium and I had the opporrunity to compare the ElUnit products with the similar products of the leading foreign manufacturers. The ElUnit instruments are reliable, they could be used for wide array of experiemntal procedures on isolated organs, they are well-designed, user-friendly and their technical features are similar to those of well-known leading foreign manufacturers.

Momir Nesic, MD, MSc, RFESC
Teaching Assistant
Member of the Federal Evaluation Board for Medical Devices

Momir Nešić

Медицински факултет
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I met Mr. Radomir Mazinjanin upon arrival at the Institute for Physiology of the Medical Faculty of Belgrade in 1989. Having in mind that while preparing my Master's Thesis and PhD I tested the reactivity of the smooth musculature of the blood vessels and the trachea-bronchial I used the apparatus UGO BASILE, HUGO SACHS and ELUNIT.
Of the ELUNIT apparatus I used the chamber for isolated organs, isometric trans-users, measuring bridges, blood pressure trans-users, platinum electrodes, micrometer manipulators, holders and electrodes for transusers for the chamber for isolated organs. The additional services I used include the expanding scope and extent of the electrical stimulator company Ugo Basile, expanding the of action of universal measuring bridge the physiologically adapted GOERC writers (for isometrical transuser and blood pressure) and repair of 4-channel physiological printer of the company IPM.I am very satisfied with professionalism, correct attitude, and quality of work done, resulting in the defended Master's Thesis, and a large number of publications in the countryand overseas of the ELUNIT apparatus, of which I will mention a few:

1. **Djurić D.**, Andjelković I., Jovanović T., Rosić M. (1992) Effects of (R)alpha-methylhistamine on the isolated guinea pig trachea. ***Acta Biologiae et Medicinae Experimentalis***, vol.17/1-2, 21-24.
2. **Djurić M.D.**, Andjelković Z.I., Rosić A.M. (1993) Effects of methylated derivatives of histamine on the isolated guinea pig aorta. ***Acta Veterinaria***, 43/5-6, 287-294.
3. **Djurić D.**, Andjelković I. (1995) The evidence for histamine H3 receptor-mediated endothelium-dependent relaxation in isolated rat aorta. ***Mediators of Inflammation***, vol. 4:3, 217-221.
4. **Djuric D.**, Nešić M., Andjelković I. (1996) Endothelium-dependent relaxation of rat aorta to a histamine H_3-agonisst is reduced by inhibitors of nitric oxide synthase, guanylate cyclase and Na^+,K^+-ATP-ase. ***Mediators of Inflammation***, vol. 5:1, 69-74.

For these reasons, I strongly recommend cooperation in technical maintenance of equipment for physiology, pathophysiology and pharmacology, both in science and in teaching, and use equipment of ELUNITcompany of Mr. Radomir Mazinjanin.

Prof.dr Dragan Đurić,
Član Internacionalnog udruženja za hipertenziju i Američkog koledža za krvne sudove

Member of the International Society of Hypertensionand the American College of blood vessels

Institute of Physiology,
Medical Faculty in Belgrade

Laboratory:
Prof. Dr. Julijana Vojvodić

Contributors:
Prof. Dr. Vera Vučković
Prof. Dr. Ljiljana Šćepanović

Laboratory of Prof. Dr. Juliana Vojvodić studies the regulatory mechanisms of motor functions of the gastrointestinal tract, with special emphasis on gastrointestinal hormones (gastrin) and general hormone (thyroxine) and neural regulation.

In addition to experiments"in vivo", in this laboratory was carried out more experiments in vitro in isolated rabbit jejunum, ileum and terminal ileum of guinea pig, as the longitudinal, and the circulatory musculature.

Registration was performed using isometric transducer of ElUnit Electric Company from Belgrade, while the two-channel printer business was"Beckman". Electric Apparatus Company unit is accurate and very precise. A large number of papers published, in which the apparatus is used.

Attachment
List of published papers in which he used apparatus Electric Company unit

Belgrade,15.11.1999.

Prof. Dr Julijana Vojvodić

Prof. Dr Vera Vučković

Prof. Dr Ljiljana Šćepanović

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Uspešna saradnja Katedre za farmakologiju i toksikologiju, Fakulteta veterinarske medicine sa firmom El Unit iz Beograda traje dugi niz godina. Zahvaljujući specifičnosti posla kojim se El Unit bavi, početci saradnje bili su vezani za održavanje opreme za ispitivanja na izolovanim organima, tadašnjih transdjusera i štampača. Danas je El Unit proizveo najveći deo uređaja koji se u laboratoriji Katedre koriste u farmakološko-fiziološkim ispitivanjima na preparatima sisara ili parazitskim nematodama i trematodama. Ova oprema sastoji se iz transdjusera, hardvera i softvera za merenje i beleženje kontrakcija, stimulatora, automatizovanih farmakoloških vodenih kupatila i dr. Slčnu opremu inače proizvodi svega nekoliko kompanija u svetu i za nas se u Srbiji uvek postavlja kao veliki problem nabavka i servisiranje. Prednosti koje je El Unit obezbedio ogledaju se i u mogućnosti brze modifikacije komponenti sistema u zavisnosti od specifičnosti eksperimenata kao i brzo i efikasno održavanje.

Svakako možemo potvrditi da su uređajima koje El Unit proizvodi dobili svi istraživači koji vrše ispitivanja na izolovanim organima, jer sada imaju mogućnost da jednostavno kod nas nabave najsavremeniju opremu za svoja istraživanja.

U Beogradu 21.04.2008. god.

Doc. dr Saša Trailović

Fakultet Veterinarske medicine
Katedra za Morfologiju i fiziologiju
Predmet Farmakologija i toksikologija

Eksperimentalni rad koji se obavlja na predmetu Farmakologija i toksikologija između ostalog, obuhvata oglede u in vitro uslovima. Ovi ogledi se obavljaju na preparatima izolovanih organa i tkiva uzetih od laboratorijskih životinja, kao i od domaćih životinja.

U našim eksperimentima koji su rađeni na izolovanim krvnim sudovima govečeta, ispitivan je uticaj endotoksina, brojnih vazoaktivnih i drugih lekova, na reaktivnost ovih krvnih sudova. Registracija vazokonstrikcije i/ili vazorelaksacije izolovanih krvnih sudova, koja je prouzrokovana primenom vazoaktivnih lekova, vršena je pomoću transdjusera proizvedenog od strane SZR "ElUnit" iz Beograda, dok je preamplifajer i dvokanalni pisač bio marke "Ugo Basile" - Italija. Rezultati koji su na ovaj način dobijeni su očekivani, odnosno celokupna aparatura, iako je bila od različitih proizvođača, imala je dobru osetljivost (naročito ElUnit-ov transdjuser). Zahvaljujući tome, bili smo u mogućnosti da objavimo više radova, koji su što u usmenoj, što u pismenoj formi objavljeni na kongresima i publikovani u više časopisa:

Jezdimirović Milanka, Varagič M.V., Milovanović Mirjana (1996): Uloga azotnog oksida (NO) i inhibitora njegove sinteze u septičkom šoku. Veterinarski glasnik, 50, 147-155.

Milovanović, Mirjana, Jezdimirović, Milanka, Varagić, M.V. (1996): The effect of bacterial lipopolysaccharide (LPS) on the responses of the isolated bovine abdominal aorta to noradrenaline. Iugoslav Physiol. Pharmacol. Acta, 32, 169-176.

Milovanović Mirjana, Jezdimirović Milanka, Varagič M.V.: Participation of L-arginine-NO pathway in decreased reactivity to catecholamines of the bovine abdominal aorte after treatment with bacterial lipopoysaccharide (LPS). Proc. of 6th Inernational Congress of Veterinary Anaesthesiology, Sept. 23-27, Thessaloniki, Greece, 1997.

Jezdimirović Milanka, Varagič M.V., Milovanović Mirjana: Septički šok i mogućnosti lečenja. Zbornik VII Kongresa veterinara Jugoslavije, Jugoslavija, Beograd 27-29 oktobar 1998.

Milovanović Mirjana Jezdimirović Milanka: Uticaj bakterijskog lipopolisaharida (LPS) i inhibitora NO-sintaze (NOS) na vazokonstriktorno dejstvo kateholamina. Zbornik VII Kongresa veterinara Jugoslavije, Jugoslavija, Beograd 27-29 oktobar 1998.

Dipl. vet. Mirjana Milovanović, asistent pripravnik
na predmetu Farmakologija i toksikologija.