

ПРИМЉЕНО: 03.09.2018			
Орг. јед.	Број	Прилог	Вредност
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Naosnovu članova 65 i 77 Zakona o visokom obrazovanju, Pravilnika o uslovima i načinu angažovanja gostujućeg profesora na Univerzitetu u Beogradu – Biološkog fakulteta podnosimo sledeći

REFERAT

BIOGRAFIJA

Dr Boris Šakić, vanredni profesor (Associate Prof.) je bihevioralni neuroimunolog koji je diplomirao na beogradskom Prirodno-matematičkom fakultetu (odsek Biologija) 1981. godine sa prosečnom ocenom 9.0. Magisterijum iz Neurobiologije (pod rukovodstvom dr. Julijusa Ivanuša) je odbranio 1985. godine na Centru za multidisciplinarne studije (Univerzitet u Beogradu), a kasnije (1990.) i doktorat na Prirodno-matematičkom fakultetu, pod rukovodstvom Dr. Ljubiše Rakića. Karijeru eksperimentalnog istraživača je nastavio 1989. godine kao post-doktorant na McMaster Univerzitetu u Kanadi. Status univerzitetskog profesora na istom fakultetu je dobio 1995. godine na odeljenju za Biomedicinu, a kasnije na odeljenju za Psihijatriju i bihevioralne neuronauke. Svoju stručnu specijalizaciju je proveo od avgusta 2006. do jula 2007. godine na Salk institutu (San Diego, Kalifornija) u laboratoriji doktora Fred Gage-a i Greg Lemke-a, gde je ispitivao efekat sistemske autoimunosti na proliferaciju moždanih matičnih ćelija. Dr Šakić učestvuje već više od 20 godina na McMaster Univerzitetu kao jedini predavač i mentor iz oblasti Psihoneuroimunologije i od nedavno, iz oblasti Eksperimentalne Psihometrije (odelenje za Psihologiju).

Od 2013. godine angažovan je kao gostujući profesor na Biološkom fakultetu Univerziteta u Beogradu. Uveo je i uspešno organizovao sa prof. P. Andusom doktorske kurseve Psihoneuroimunologije (izborni kurs iz opšte grupe predmeta) i Merenje ponašanja (izborni kurs modula Neurobiologija). Ove kurseve pored studenata Biološkog fakulteta pohađali su i studenti Farmaceutskog i Filozofskog fakulteta. U toku ove svoje nastavne aktivnosti dr Šakić se takođe intenzivno bavio naučnom saradnjom sa kolegama sa Univerziteta, kojima je takođe u više mahova donirao i nešto od svoje laboratorijske opreme. Sa kolegama sa Biološkog fakulteta UuB, učestvovao je i u organizaciji Međunarodne škole biofizike "Imaging of Neuroinflammation" u Kotoru (Crna Gora).

NAUČNI DOPRINOS

Generalna oblast istraživačkog rada dr Šakića je uloga imunoloških faktora u regulaciji neuroendokrinog sistema i ponašanja, kako u patofiziološkim uslovima, tako i u homeostazi. Konkretnije, njegova istraživanja su vezana za patogenezu psihijatrijskih manifestacija i neurodegeneracije kod pacijenata koji boluju od autoimunskih obolenja, kao što su sistemski lupus i multipna skleroza. Posle više od 20 godina provedenih u uspešnom formiranju animalnog MRL modela, dr Šakić se putem kombinovanih kliničko-bazičnih istraživanja u poslednjih 15 godina fokusirao na ulogu neuroaktivnih citokina i anti-moždanih antitela u etiologiji klasičnih mentalnih obolenja. Imajući u vidu da su autoimuni i neuroinflamatorni fenomeni nedavno otkriveni u bolestima kao što šizofrenija, autizam, i Alchajmerovo obolenje, značaj istraživanja dr Šakića trenutno daleko prevazilazi oblast neurolupusa i multipne skleroze. Njegova istraživanja imaju izrazito multidisciplinarni karakter, budući da objedinjuju neurobiologiju, psihologiju, imunologiju, endokrinologiju, kao i klinički i eksperimentalni rad. U najznačajnije rezultate ubrajaju se otkrića da sistemsko autoinflamatorno obolenje dovodi do degeneracije centralnih neurona, da autoimuni likvor sadrži IgG autoantitela koja uništavaju adultne neurone i moždane stem ćelije, i da sistemska autoinflamacija prethodi neurodegeneraciji u modelu Alchajmerovog obolenja. Takođe, pre sedam godina dr Šakić je kompletirao izgradnju bihevioralne aparature (Integrated Behavioral Station, INBEST), koja omogućava kontinuirano praćenje i kompjutersku analizu ponašanja životinja preko Interneta. U nedavnoj korespondenciji, dr. Šakić je izrazio želju da donira INBEST opremu Biološkom fakultetu kada se ostare uslovi vezani za prostor i bihevioralne eksperimente.

Kvalitet naučno-istraživačkog rada dr Šakića i njegov sveukupan naučni doprinos može se sagledati kroz preko 60 publikovanih naučnih radova i poglavlja u knjigama, kao i kontinuiranog uspeha u konkursima naučnih fondacija i farmaceutskih kompanija (uključujući National Institutes of Health,

NIH i Pfizer Canada). Priznanje za njegov naučni doprinos ogleda se i u preko 2000 citata, kao i uloge recenzenta projekata u nacionalnim agencijama kao što su CIHR (Canadian Institutes of Health Research), NIH, Medical Research Council UK, National Medical Research Council of Singapore, The Israel Science Foundation, Swiss Federal Institute of Technology, i druge agencije. Naučnom uticaju dr Šakića doprinosi i njegovo mnogobrojno učešće na međunarodnim naučnim skupovima u svojstvu pozvanog predavača, predsedavajućeg sekcija, ili člana naučnih odbora.

NASTAVNA AKTIVNOST

Na McMaster Univerzitetu predaje sledeće teoretske i laboratorijske kurseve: Psychoneuroimmunology, Measuring Behavior, Neuro700 (Fundamentals of Neurobiology, MINDS Program), i Medical Foundation 5 (MSK system, Neurology, and Behavior, MD Program). Kao rezultat svoje predanosti kvalitetnom pedagoškom radu, 2009-e godine bio je dobitnik nagrade Excellence in Research Mentorship Award (McMaster University) i 2014-te godine Excellence in Teaching Award (McMaster University, <https://dailynews.mcmaster.ca/article/mcmaster-educators-lauded-at-msu-teaching-awards-ceremony/>) i mnogobrojnih pohvala svojih kanadskih i beogradskih studenata.

Od školske 2013/14 vodi kurseve Psihoneuroimunologija i Merenje ponašanja kao gostujući profesor na Biološkom fakultetu Univerziteta u Beogradu.

NAGRADE

- 1965-73 Award of Excellency - "Vuk Karadzic" Diploma, Belgrade
- 1975-79 "Marshal Tito" Scholarship (fund for excellent students), Belgrade
- 1983-85 Graduate Scholarship, Municipal Science Foundation, Belgrade
- 1991-93 Post-doctoral Fellowship, Ontario Mental Health Foundation, Toronto
- 1993-95 Post-doctoral Fellowship, Ontario Mental Health Foundation, Toronto
- 1998-99 Pfizer Canada Inc. Research Fellowship
- 1998-00 Intermediate Fellowship, Ontario Mental Health Foundation, Toronto
- 2000-02 Web Administrator for "Canadian Network on Neuroimmune Biology"
- 2000-02 Intermediate Fellowship, Ontario Mental Health Foundation, Toronto
- 2001-06 Career Devel. Award, Father Sean O'Sullivan Research Center, Hamilton
- 2002 Presentation selected for the Annual Media Book, Society for Neuroscience
- 2002-05 National Institutes of Health, USA (salary support, 35%)
- 2009 Excellence in Research Mentorship Award, McMaster University
- 2010 Invited speaker and chair at The 7th International Congress on Autoimmunity (Ljubljana, Slovenia)
- 2012 Invited faculty at the Neuroscience School of Advanced Studies (course "Neuroinflammation", San Quirico d'Orcia, Italy)
- 2014 McMaster Student Union Teaching Award

PROJEKTI

- 1993-94 Astra Draco, co-investigator (\$28,000)
"The Effect of D7193 in an Animal Model of Autoimmunity-induced Behavioral Dysfunction".
- 1995-96 Pfizer Canada Inc., co-investigator (\$83,037)
"Effect of Sertraline in an Animal Model of Autoimmunity and Neurobehavioral Dysfunction".
- 1997-98 Canadian Psychiatric Research Foundation, (\$30,000)
"Aberrant Behavior in Autoimmunity: Roles of Interleukin-6 and Corticotropin- Releasing Hormone".
- 1997-00 Medical Research Council of Canada, research grant MT-14327 (\$163,047) "Neuro- and immunopathological changes related to aberrant behavior in autoimmune mice".

2000-03 Medical Research Council of Canada, research grant MOP 38065 (\$147,204) "On the pathogenic mechanisms of autoimmunity-induced neurodegeneration and behavioral dysfunction".

2000 Canada Foundation for Innovation, Innovation Fund (\$254,593) "Regional brain neurochemistry, psychostimulant-induced behaviour, and mental disorders" (joint grant, P.I.: H. Szechtman).

2001-02 FSORC New Investigator Grant, St. Joseph's Hospital, Hamilton (\$10,000)
"Characterization of neurotoxic cerebrospinal fluid from autoimmune animals.

2002-05 Canadian Institutes of Health Research (\$223,827)
"Brain cell death during systemic autoimmune disease: targets and mechanisms" (declined).

2002-05 National Institutes of Health, USA, 1R21 AR49163-01 (US\$350,000) "Brain cell death in MRL mice: targets and mechanisms".

2004-05 Hamilton Health Sciences (\$24,844)
"Investigating the intracellular mechanisms of autoimmune mediated neurotoxicity" (Mentor of Dr. Joseph Macri).

2004-05 The Jonty Foundation, USA (\$37,030)
"Autoimmunity as an etiological factor in a subgroup of patients with autistic spectrum disorders".

2005-09 Canadian Institutes of Health Research 74593 (\$291,345)
"Brain-reactive autoantibodies: Origin, structure, and effects on behavior"

St. Peter's Hospital Foundation, Hamilton, Ontario, equipment grant (\$27,000) "Behavioral effects of antibiotics in a mouse model of Alzheimer's disease"

Ontario Mental Health Foundation, Toronto (\$149,818) "Behavioral and Neurotoxic Effects of Brain-Reactive Antibodies"

2016-17 Canadian Institutes of Health Research PJT-149031 (\$100,000) "Immunity, sex and genes in the etiology of Alzheimer's disease" (co-PI with Dr. M. Fahnstock)

2018-20 Canadian Institutes of Health Research, Catalyst Grant, SVB-158618 (\$150,000): "Sex-dependent systemic autoimmunity in a mouse model of Alzheimer's disease" (co-PI with Dr. M. Fahnstock)

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Zaključak

Imajući u vidu dosadašnji uspešan angažman dr Šakića u nastavi na Biološkom fakultetu kao i aktuelnost i potrebu za multidisciplinarnim istraživanjima u neurobiologiji, kao i za daljim razvojem naših istraživanja u Psihoneuroimunologiji i kompjuterizovanoj analizi ponašanja, Katedra za opštu fiziologiju i biofiziku Biološkog fakulteta Univerziteta u Beogradu podvlači potrebu da doktorski studenti na programu Biologije, prvenstveno modula Neuronauka, Animalna i humana fiziologija i Imunologija, steknu bazična znanja iz tih oblasti. Zahvaljujući dobroj volji, entuzijazmu i iskustvu dr Šakića, kao i dosadašnjem uspešnom radu na Biološkom fakultetu, predlažemo da se ovaj stručnjak i u narednom periodu uključi u nastavu na doktorskim studijama programa Biologija kojima bi se obogatili kursevi Neuroimunologija, Čelijske osnove ponašanja i Neurobiologija ponašanja, a dalje razvijali posebni kursevi Psihoneuroimunologija i Merenje ponašanja za koje bi on bio vodeći predavač. Dr Šakić bi ovime dao dragoceni doprinos kvalitetu ovog dokorskog programa. Uviđajući značaj ovog akademskog doprinosa dr Šakića za obrazovanje studenata ne samo Biološkog fakulteta i kvalitet nastave Katedra svesrdno podržava angažovanje dr Šakića u postojećem programu kao i za vodećeg predavača naznačenih kurseva. Stoga sa posebnim zadovoljstvom u ime Katedre za opštu fiziologiju i biofiziku predlažemo Nastavno-naučnom veću Biološkog fakulteta i Senatu Univerziteta u Beogradu da izaberu dr Borisa Šakića u zvanje gostujućeg profesora.

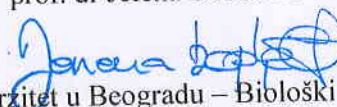
Beograd, 30.08.2018.

prof. dr Pavle R. Andus



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