

1. CURRICULUM VITAE**NAME:** IGOR NIKOLAYEVICH IEZHITSA**PLACE OF WORK:**

1. FACULTY OF MEDICINE, UNIVERSITI TEKNOLOGI MARA (UiTM), FACULTY OF MEDICINE, LEVEL 20, TOWER 1, SCIENCE & TECHNOLOGY COMPLEX, 40450 SHAH ALAM, SELANGOR, MALAYSIA / UNIVERSITI TEKNOLOGI MARA, FACULTY OF MEDICINE, SUNGAI BULOH CAMPUS, JALAN HOSPITAL, 47000 SUNGAI BULOH. SELANGOR DARUL EHSAN, MALAYSIA
2. VOLGOGRAD STATE MEDICAL UNIVERSITY (VOLSMU) – *VOLGOGRÁDSKIĀ GOSUDÁRSTVENNĀYĀ MEDITSĪNSKIĀ UNIVERSITĒT*, RESEARCH INST. OF PHARMACOLOGY, PAVSHIKH BORTSOV SQ., 1, 400066, VOLGOGRAD, RUSSIA

CURRENT POSITIONS:

1. **ASSOCIATE PROFESSOR OF PHARMACOLOGY** FOR THE FACULTY OF MEDICINE OF THE UNIVERSITI TEKNOLOGI MARA, SHAH ALAM, MALAYSIA
2. **SENIOR RESEARCH SCIENTIST** AT RESEARCH CENTRE FOR INNOVATIVE MEDICINES, VOLGOGRAD STATE MEDICAL UNIVERSITY – *VOLGOGRÁDSKIĀ GOSUDÁRSTVENNĀYĀ MEDITSĪNSKIĀ UNIVERSITĒT*, VOLGOGRAD, RUSSIA
3. **ASSOCIATE FELLOW** AT CENTRE OF EXCELLENCE (CoE) UiTM INSTITUTE OF PATHOLOGY, LABORATORY AND FORENSIC MEDICINE (I-PPERFORM) – *PELANTIKAN SEBAGAI AHLI BERSEKUTU INSTITUT KECEMERLANGAN (CoE)*, INSTITUTE FOR PATHOLOGY, LABORATORY AND FORENSIC MEDICINE (I-PPERFORM), UNIVERSITI TEKNOLOGI MARA, MALAYSIA

ACADEMIC RANK/ACADEMIC POSITIONS/UCHONOYE ZVANIYE (RUSSIAN FEDERATION): ASSOCIATE PROFESSOR**DEGREES:****PH.D. DEGREE IN PHARMACOLOGY** (1998); *candidate of biological sciences* – name of the academic degree as used in Russia**DR. SCI. BIOL. DEGREE IN PHARMACOLOGY** (2008); *doctor of biological sciences* – name of the academic degree as used in Russia**YEAR OF TEACHING EXPERIENCE:** 25 Year(s)**CITATION DATABASES AND NETWORKING SITES FOR SCIENTISTS AND RESEARCHERS:**ORCID: <http://orcid.org/0000-0002-2852-8486>ResearcherID B-5687-2012: <http://www.researcherid.com/rid/B-5687-2012>Scopus Author ID 6701491713: <http://www.scopus.com/authid/detail.url?authorId=6701491713>eLibrary: http://elibrary.ru/author_items.asp?authorid=118005Publons: <https://publons.com/author/1244166/igor-iezhitsa#profile>ResearchGate: https://www.researchgate.net/profile/Igor_Iezhitsa?ev=prf_high**WORK ADDRESS:**Universiti Teknologi MARA, Faculty of Medicine, Sungai Buloh Campus, Jalan Hospital, 47000 Sungai Buloh. Selangor Darul Ehsan, **Malaysia****Office:** (+603)61267202**Email:** iezhitsa@uitm.edu.my**EDUCATION****ADDRESS AND CURRENT NAME OF THE UNIVERSITY**

9/1989 – 7/1994

Diploma in Biology, Faculty of Biology, Department of Human and Animal Physiology, **A. M. Gorky Ural State University (USU)**, Yekaterinburg, Russia(Russian: *Уральский Государственный Университет им. А.М.Горького, Екатеринбург* – *Urál'skiĭ Gosudárstvennyĭ Universitét Īmeni A. M. Górkogo*)**Ural Federal University (UrFU)** – *Urál'skiĭ Federal'nyĭ Universitét Īmeni Pervogo Prezidenta Rossii B.N. Yel'tsina*, Institute of Natural Sciences (Biology); Department of Human and Animal PhysiologyLenina, 51, Yekaterinburg, Russian Federation (*Management*)Kuĭbysheva, str. 48, Yekaterinburg, Russian Federation (*Academic*)

10/1994 – 10/1997

Postgraduate Study (PhD), Volgograd Medical Academy (VMA), Department of**Volgograd State Medical University (VolSMU)** – *Volgográdskii*

pharmacology, Volgograd, Russia.

(Russian: *Волгоградская Медицинская Академия, Волгоград – Volgogradskaya Meditsinskaya Akademiya*)

Gosudárstvennyĭ Meditsínskiĭ Universitét;
Pavshikh Bortsov sq. 1, 400131
Volgograd, Russian Federation
(Management)

2/1998

Ph.D. degree in Pharmacology (*candidate of biological sciences* – name of the academic degree as used in Russia), **Volgograd Medical Academy (VMA)**

(Russian: *Волгоградская Медицинская Академия, Волгоград – Volgogradskaya Meditsinskaya Akademiya*)

Volgograd State Medical University (VoISMU) – *Volgogradskii Gosudárstvennyĭ Meditsínskiĭ Universitét;*
Pavshikh Bortsov sq. 1, 400131
Volgograd, Russian Federation
(Management)

2/2008

Dr. Sci. Biol. degree in Pharmacology (*doctor of biological sciences* – name of the academic degree as used in Russia), **Volgograd State Medical University (VoISMU)**

(Russian: *Волгоградский Государственный Медицинский Университет, Волгоград – Volgogradskii Gosudárstvennyĭ Meditsínskiĭ Universitét*)

Volgograd State Medical University (VoISMU) – *Volgogradskii Gosudárstvennyĭ Meditsínskiĭ Universitét;*
Pavshikh Bortsov sq. 1, 400131
Volgograd, Russian Federation

PROFESSIONAL BACKGROUND		ADDRESS
9/1997 – 6/2009	<p>Assistant Professor, Volgograd State Medical University (Department of Pharmacology), Volgograd</p> <p>(Russian: <i>Волгоградский Государственный Медицинский Университет, Волгоград – Volgogradskii Gosudárstvennyĭ Meditsínskiĭ Universitét</i>)</p>	Department of Pharmacology, Volgograd State Medical University, Pavshikh Bortsov sq. 1, 400131 Volgograd, Russian Federation
11/1997 – 29/12/2018	<p>Senior Research Scientist, Volgograd State Medical University (<i>Drug Safety Laboratory, Research Inst. of Pharmacology</i>), Volgograd</p> <p>(Russian: <i>Волгоградский Государственный Медицинский Университет, Волгоград – Volgogradskii Gosudárstvennyĭ Meditsínskiĭ Universitét</i>)</p>	Drug Safety Laboratory, Research Inst. of Pharmacology, Volgograd State Medical University, Pavshikh Bortsov sq. 1, 400131 Volgograd, Russian Federation
11/06/2009-10/06/2010	<p>Senior Lecturer of Pharmacology, Faculty of Medicine, Universiti Teknologi MARA, Shah Alam, Malaysia</p>	Universiti Teknologi MARA, Faculty of Medicine, Level 20, Tower 1, Science & Technology Complex, 40450 Shah Alam, Selangor Darul Ehsan, Malaysia
29/12/2018 – till present	<p>Senior Research Scientist, Volgograd State Medical University (<i>Toxicology Laboratory, Research Centre for Innovative Medicines</i>), Volgograd</p> <p>(Russian: <i>Волгоградский Государственный Медицинский Университет, Волгоград – Volgogradskii Gosudárstvennyĭ Meditsínskiĭ Universitét</i>)</p>	Toxicology Laboratory, Research Centre for Innovative Medicines, Volgograd State Medical University, Pavshikh Bortsov sq. 1, 400131 Volgograd, Russian Federation
28/06/2010 – till present	<p>Associate Professor of Pharmacology, Faculty of Medicine, Universiti Teknologi MARA (UiTM), Malaysia</p>	Universiti Teknologi MARA, Faculty of Medicine, Level 20, Tower 1, Science & Technology Complex, 40450 Shah Alam, Selangor Darul Ehsan, Malaysia Universiti Teknologi MARA, Faculty of Medicine, Sungai Buloh Campus, Jalan Hospital, 47000 Sungai Buloh. Selangor Darul Ehsan, Malaysia

15/06/2019 – 15/06/2021 **Associate Fellow** at Centre of Excellence (CoE) UiTM Institute of Pathology, Laboratory and Forensic Medicine (I-PPerForM) – *Pelantikan Sebagai Ahli Bersekutu Institut Kecemerlangan (CoE)*, Institute for Pathology, Laboratory and Forensic Medicine (I-PPerForM), Universiti Teknologi MARA, Malaysia

Universiti Teknologi MARA, 40450 Shah Alam, Selangor Darul Ehsan, Malaysia

ADMINISTRATIVE POSITIONS AND SPECIAL ADMINISTRATIVE TASKS

Address

26/01/2010 – 08/09/2015 **Coordinator of Clinical Skills Lab**, Faculty of Medicine, Universiti Teknologi MARA UiTM), Malaysia

Universiti Teknologi MARA, Faculty of Medicine, Level 20, Tower 1, Science & Technology Complex, 40450 Shah Alam, Selangor Darul Ehsan, Malaysia

Universiti Teknologi MARA, Faculty of Medicine, Sungai Buloh Campus, Jalan Hospital, 47000 Sungai Buloh. Selangor Darul Ehsan, Malaysia

23/06/2015 – till now **Head of Centre for Neuroscience Research (NeuRon)**, Faculty of Medicine, Universiti Teknologi MARA UiTM), Malaysia

Universiti Teknologi MARA, Faculty of Medicine, Sungai Buloh Campus, Jalan Hospital, 47000 Sungai Buloh. Selangor Darul Ehsan, Malaysia

MEMBERSHIP OF A PROFESSIONAL BODIES AND ASSOCIATIONS

√ from 1995 till present RUSSIAN SCIENTIFIC SOCIETY OF PHARMACOLOGISTS Regular Member

√ from 2013 till present MALAYSIAN SOCIETY OF PHARMACOLOGY AND PHYSIOLOGY, *PERSATUAN FARMAKOLOGI DAN FISILOGI MALAYSIA – MSPP* Regular Member

RESEARCH INTERESTS

- **Experimental Neuropharmacology and Toxicology,**
- **Neurodegeneration,**
- **Neuroprotection,**
- **Visual Neuroscience and Ocular Pharmacology**

AWARDS

5/1997 **Travel Award** of Young People Affairs Department (Administration of the Volgograd Region) for travelling to 11th Noordwijkerhout-Camerino Symposium ("Trends in drug research", Noordwijkerhout, the Netherlands, 11-15 May 1997).

Young People Affairs Department, **Administration of the Volgograd Region**, Volgograd, Russian Federation

8/1999 **Travel Award**, 6th International Congress on Amino Acids. Bonn, Federal Republic of Germany, 3-7 August 1999.

6th International Congress on Amino Acids, Bonn, Federal Republic of Germany

05/10/2002 **ECNP Fellowship Award** for the presentation "Complex supplementation containing mineral bishofit (MgCl₂·6H₂O) solution and pyridoxine hydrochloride normalises ethanol-induced magnesium depletion and corrects some behavioural disturbances during chronic alcoholisation", 15th Congress of the European College of

ECNP: European College of Neuropsychopharmacology, Barcelona, Spain, EU

	Neuropsychopharmacology (ECNP). Barcelona, Spain, 5-9 October 2002	
5/2004	Grant-in-Aid of Ruveneks OOO (Moscow) for travelling to 8th International Symposium on Metal Ions in Biology and Medicine. Hungarian Academy of Sciences, Budapest, Hungary, May 18-22, 2004	Ruveneks OOO, Moscow (<i>Рувенэкс ООО, Москва</i>) Russian Federation
23/11/2004	Academia Europaea Prize for young scientists of Russia for a series of publication on topic "Psycho- and neurotoxicological investigation of actoprotector drugs at acute and long-term administration", Russia, Moscow, November 23, 2004.	Academia Europaea , Russia, Moscow
2/2005	Travel Grant from the Chair's Fund of Gordon Research Conference on Magnesium in Biochemical Processes & Medicine. Ventura, CA, USA.	GRC : Chair's Fund of Gordon Research Conference, USA
5/2006	INTAS Conference Individual Grant for attending 9th International Symposia on Metal Ions in Biology and Medicine "Metal ions role in life: an integrated view". Centro de Congressos da Universidade Católica, Lisboa, Portugal, May 21-24, 2006.	INTAS : International Association for Cooperation with Scientists from the former Soviet Union, Belgium, EU
10/2006	Travel grant of The Russian Foundation for Basic Research for attending 11th International Magnesium Symposium & Joint Meeting of the Japanese Society for Magnesium Research; Travel grant of 11th International magnesium symposium. Kashikojima, Japan, October 23-26, 2006.	RFBR : The Russian Foundation for Basic Research, Russian Federation
5/2009	The Volgograd Region Government Prize 2009 for Achievements in Science and Technology in nomination "The development and application of new teaching methods in education, publication of high-quality books and implementation of new teaching aids": 1st Prize for "THE RUSSIAN ENCYCLOPAEDIA OF NUTRITIONAL SUPPLEMENTS." (Eds.: V.I. Petrov and A.A. Spasov). Executive order of the Head of Administration of the Volgograd Region, Russian Federation, October 5, 2009, № 1162.	Administration of the Volgograd Region , Volgograd, Russian Federation
18/11/2011	DIANUGERAHKAN PERKHIDMATAN CEMERLANG UITM BAGI TAHUN 2010 Sijil Perkhidmatan Cemerlang, 2010. Universiti Teknologi MARA menganugerahkan Sijil Perkhidmatan Cemerlang kepada. Kerena telah menunjukkan perkhidmatan yang cemerlang pada tahun 2010. UiTM, 2011. [<i>Certificate of Distinguished Service. Universiti Teknologi MARA awarded the Distinguished Service Certificate for outstanding service in 2010. Shah Alam, UiTM, 2011</i>].	Universiti Teknologi MARA , Shah Alam, Malaysia
02/2011	The Russian Federation Government Prize 2010 for Achievements in Science and Technology for "The Research and Industrial Development of Know-How Biocatalysis Technology of L-Aspartic Acid and Innovative Medical Products on the Basis of its Salts", The Government of Russian Federation, Moscow, Executive order No. 285-r of February 25, 2011, "On Awarding Government Prizes for Achievements in Science and Technology in 2010".	The Government of Russian Federation , Moscow, Russian Federation
9/10/2012	The Volgograd Region Government Prize 2012 for Achievements in Science and Technology in nomination "The development and application of new teaching methods in education, publication of high-quality books and implementation of new teaching aids": 1 st Prize for Monograph "PHARMACOLOGY OF DRUG STEREOISOMERS" (Eds.: A.A. Spasov, A.A. Ozerov, I.N. Iezhitsa and P.M. Vasiliev). Executive order of the Head of Administration of the Volgograd region № 1091 of November 9, 2012.	Administration of the Volgograd Region , Volgograd, Russian Federation

08/09/2013	“Best Oral Presenter” Award at the 27th Scientific Meeting of Malaysian Society of Pharmacology and Physiology (September 6-8, 2013) in Basic Sciences Category. Title of presentation: “Effect of liposomal magnesium taurate on altered magnesium homeostasis and calpain activity in the lens of galactosemic rats”	27th Scientific Meeting of Malaysian Society of Pharmacology and Physiology , MS Garden Hotel, Kuantan, Pahang
22/09/2014	DIANUGERAHKAN PERKHIDMATAN CEMERLANG UITM BAGI TAHUN 2013 Sijil Perkhidmatan Cemerlang, 2013. Universiti Teknologi MARA menganugerahkan Sijil Perkhidmatan Cemerlang kepada. Kerena telah menunjukkan perkhidmatan yang cemerlang pada tahun 2013. UiTM, 2014. [<i>Certificate of Distinguished Service. Universiti Teknologi MARA awarded the Distinguished Service Certificate for outstanding service in 2013. Shah Alam, UiTM, 2014.</i>]	Universiti Teknologi MARA , Shah Alam, Malaysia
26/08/2016	DIANUGERAHKAN PERKHIDMATAN CEMERLANG UITM BAGI TAHUN 2015 Sijil Perkhidmatan Cemerlang, 2015. Universiti Teknologi MARA menganugerahkan Sijil Perkhidmatan Cemerlang kepada. Kerena telah menunjukkan perkhidmatan yang cemerlang pada tahun 2015. UiTM, 2016. [<i>Certificate of Distinguished Service. Universiti Teknologi MARA awarded the Distinguished Service Certificate for outstanding service in 2015. Shah Alam, UiTM, 2016.</i>]	Universiti Teknologi MARA , Shah Alam, Malaysia
04/09/2017	The winner of RANZCO 2017 International Development Grant Program to attend 49th RANZCO Annual Scientific Congress (The 49th Annual Scientific Congress of The Royal Australian and New Zealand College of Ophthalmologists), 28 Oct. – 1 Nov. 2017	49th RANZCO Annual Scientific Congress (The 49th Annual Scientific Congress of The Royal Australian and New Zealand College of Ophthalmologists), Perth, Australia
05/12/2018	ANUGERAH PENULIS TERBAIK 2017 Majlis Penganugerahan Anugerah Akademik UiTM 2017. [The winner of the 2017 UiTM Academic Award (AAU) for the category of Best Writer Award] , Concorde Hotel, Shah Alam, Malaysia.	Majlis Anugerah Akademik Universiti 2017 , Concorde Hotel, Shah Alam, Malaysia

CONSULTING SERVICES

TITLE	SOURCE	TOTAL FUNDS	ROLE (PRINCIPLE / CO-RESEARCHER)	YEARS, DURATION
MALAYSIA				
COMPLETED				
Workshop on "Stereotaxic-Guided Microinjection of Drug in Rodent"	Gaia Science Sdn Bhd (Malaysia) http://www.gaiascience.com.my/ No 60, Jalan Puteri 5/5, Bandar Puteri, 47100 Puchong, Selangor, Malaysia info@gaiascience.com.my		Consultant at Gaia Science (M) Sdn Bhd	2018

RESEARCH PROJECTS (COMPLETED AND ON-GOING)

TITLE	SOURCE	TOTAL FUNDS	ROLE (PRINCIPLE / CO-RESEARCHER)	YEARS, DURATION
RUSSIAN FEDERATION				
COMPLETED				
1. R&D of medical products on the basis of natural mineral «bischofite» (Volgograd State Medical University, Russian Federation)	Government of the Volgograd region (Russian Foundation)	1,000,000.00 <i>Russian Roubles</i>	Co-researcher	2000-2001
2. Study to investigate pharmacological activity of "Asparkam-L"(Volgograd State Medical University, Russian Federation)	Industrial Grant from «ZAO BIOAMID», Saratov (Russian Foundation)	300,000.00 <i>Russian Roubles</i>	Co-researcher	2001-2002
3. Comparative pharmacological study of Carnitine stereoisomers (Volgograd State Medical University, Russian Federation).	Industrial Grant from «PIK-PHARMA», Moscow (Russian Foundation)	300,000.00 <i>Russian Roubles</i>	Co-researcher	2004
4. Disturbances of magnesium homeostasis and its correction in pathogenesis of urolithiasis (Volgograd State Medical University, Russian Federation)	Research grant (№ 07-04-96606) Russian Foundation for Basic Research (RFBR)	300,000.00 <i>Russian Roubles</i>	Co-researcher	2007
5. Study to investigate pharmacological and toxicological properties of combined medicinal formulation of magnesium L-aspartate and pyridoxine (Volgograd State Medical University, Russian Federation)	Industrial Grant from «ZAO BIOAMID», Saratov (Russian Foundation)	300,000.00 <i>Russian Roubles</i>	Co-researcher	2009
MALAYSIA				
COMPLETED				
1. Effect of magnesium taurate eye drops in rats with experimentally induced cataract	Excellence Fund 600-RMI/ST/DANA 5/3/Dst (354/2011);	10,000.00 <i>Malaysian Ringgit</i>	Principle	01.07.2011-10.10.2012 Completed
2. Studies to investigate mechanism of anticataract effect of magnesium taurate in rats	Excellence Fund 600-RMI/DANA 5/3/RIF (491/2012);	32,000.00 <i>Malaysian Ringgit</i>	Principle	01.10.2012-30.09.2014 Completed
3. Studies to Investigate Trabecular Tissue Remodeling as a	RAGS/2012/UITM/SKK03/2 600-RMI/RAGS 5/3 (108/2012), Sains Kesihatan dan Klinikal	80,000.00 <i>Malaysian Ringgit</i>	Co-researcher (Principle: Dr.	15.12.2012-14.12.2014 Completed

	Mechanism of LOP lowering effect of Angiotensin II Type 1 Receptor Blockers in Oculohypertensive Rats	(Farmakologi), Dana Pembudayaan Penyelidikan (RAGS), Ministry of Higher Education (MOHE), Malaysia		Nurul Raudzah Binti Adib Ridzuan)	
4.	Mechanism of Neuroprotection by Magnesium Acetyltaurinate on Experimental Glutamate-Induced Excitotoxicity in Rat Retinal Ganglion Cells	RAGS/2013/UITM/SKK03/2 600-RMI/RAGS 5/3 (103/2013) , Sains Kesihatan dan Klinikal (Farmakologi), Dana Pembudayaan Penyelidikan (RAGS), Ministry of Higher Education (MOHE), Malaysia	80,000.00 Malaysian Ringgit	Co-researcher (Principle: Dr. Khairul Nizam Bin Rozali)	15.09.2013- 14.09.2015 ext. 14.03.2016 Completed
5.	Mechanism of Neuroprotection by Magnesium Acetyltaurinate on Experimental Glutamate-Induced Excitotoxicity In Rat Retinal Ganglion Cells (Title has been changed to: Study to investigate Neuroprotective effect of Magnesium Acetyltaurinate on NMDA-induced retinal ganglion cell death)	DANA Kecemerlangan Pendidikan UiTM Zamalah Sokongan Pasca-Siswazah (PSF) 4/2015; Lidawani Lambuk (2014375257) 600-RMI/DANA 5/3/PSF (14/2015)	22,000.00 Malaysian Ringgit	Principle	01-04-2015 31-03-2016 Completed
6.	Mechanism underlying anticataract effect of liposomal formulation of tocotrienol in streptozotocin-induced diabetic rats	RAGS/2013/UITM/SKK03/5 600-RMI/RAGS 5/3 (105/2013) , Sains Kesihatan dan Klinikal (Farmakologi), Dana Pembudayaan Penyelidikan (RAGS), Ministry of Higher Education (MOHE), Malaysia	80,000.00 Malaysian Ringgit	Co-researcher (Principle: Dr. Mohd Ikraam Bin Ibrahim)	15.09.2013- 14.09.2015 Completed
7.	Study to investigate trabecular tissue remodelling as a mechanism of LOP lowering effect of angiotensin II type 1 receptor blockers in oculohypertensive rats (Part 3)	600-RMI/DANA 5/3/CIFI (145/2013) Cumulative Impact Factor Initiative (CIFI) Tajuk Projek Asas (RAGS 2012) Study to investigate trabecular tissue remodelling as a mechanism of LOP lowering effect of angiotensin II type 1 receptor blockers in oculohypertensive rats	60,000.00 Malaysian Ringgit	Principle	01.12.2013- 30.11.2015 Completed
8.	Retinal ganglion cell protection against endothelin-induced injury by magnesium acetyl taurinate in rats	FGRS/1/2014/SKK01/UITM/5 600-RMI/RAGS 5/3 (40/2014) Sains Kesihatan dan Klinikal (Farmakologi), Dana Pembudayaan Penyelidikan (RAGS), Ministry of Higher Education (MOHE), Malaysia	78,400.00 Malaysian Ringgit	Co-researcher (Principle: Dr. Sabrilhakim Bin Sidek)	01.12.2014- 30.11.2016 Completed
9.	Anti-remodelling mechanism of renin-angiotensin system inhibitors on trabecular meshwork: role of TGFβ	FRGS/1/2014/SKK03/UiTM/02/3 600-RMI/FRGS 5/3 (24/2014)	184,160.00 Malaysian Ringgit	Co-researcher (Principle: Dr. Anna Krasilnikova; Co: Dr. Siti Hamimah Binti Sheikh Abdul Kadir; Prof Dr Nafeeza Mohd Ismail; Dr.	01.07.2014- 30.06.2017 Completed

			Renu Agarwal)	
10. BDNF-Related Anti-Neurodegenerative Mechanism and Histopathological Basis of Behavioral Changes In Amyloid-Induced Neurodegenerative Diseases	FGRS/2/2014/SG03/UITM/02/2 600-RMI/FRGS 5/3 (111/2014) Skim Geran Penyelidikan Fundamental (FRGS) FASA 2/2014 Ministry of Higher Education (MOHE), Malaysia	108,000.00 Malaysian Ringgit	Principle	01.12.2014-30.11.2017 Completed
11. Increased MMP secretion and reduction of retinal oxidative stress as potential mechanisms of anti-glaucoma effects of resveratrol	FGRS/1/2014/SKK01/UITM/4 600-RMI/RAGS 5/3 (39/2014) Sains Kesihatan dan Klinikal (Farmakologi), Dana Pembudayaan Penyelidikan (RAGS), Ministry of Higher Education (MOHE), Malaysia	80,000.00 Malaysian Ringgit	Co-researcher (Principle: Dr. Mohd Shukry Bin Mohd Khalid)	01.12.2014-30.11.2016 ext. 31-05-2017 Completed
12. Discovery and optimization of imidazobenzimidazoles as rho kinase (ROCK) inhibitors for IOP lowering effect in normotensive and oculohypertensive rats	FGRS/1/2014/SKK03/UITM/1 600-RMI/RAGS 5/3 (46/2014) Sains Kesihatan dan Klinikal (Farmakologi), Dana Pembudayaan Penyelidikan (RAGS), Ministry of Higher Education (MOHE), Malaysia	80,000.00 Malaysian Ringgit	Co-researcher (Principle: Dr. Bushra Binti Johari)	01.12.2014-30.11.2016 ext. 31-05-2017 Completed
13. Studies to elucidate suppression of TGF- β 2 as the mechanism of resveratrol-induced oculohypotension: <i>in vivo</i> and <i>in vitro</i> studies	600-RMI/FRGS TD 5/3 (2/2015) Ministry of Higher Education (MOHE), Malaysia	127,000.00 Malaysian Ringgit	Co-researcher (Principle: Dr. Renu Agarwal)	01.12.2014-31.11.2017 Completed
14. Elucidation of Adenosine receptor signalling mechanisms involved in resveratrol-induced ocular hypotension: <i>in vivo</i> and <i>in vitro</i> studies	FGRS/2/2014/SG03/UITM/02/1 600-RMI/FRGS 5/3 (110/2014) Skim Geran Penyelidikan Fundamental (FRGS) FASA 2/2014 Ministry of Higher Education (MOHE), Malaysia	125,400.00 Malaysian Ringgit	Co-researcher (Principle: Dr. Renu Agarwal)	01.12.2014-30.11.2017 ext. 31-05-2018 Completed
15. Molecular Pharmacology and Advanced Therapeutics Research Group	600-IRMI/DANA 5/3/REI (0007/2016)	32,000.00 Malaysian Ringgit	Co-researcher (Principle: Dr. Norhafiza Binti Razali)	01-08-2016 31-07-2019 Completed
16. Study to investigate anti-apoptotic effect of magnesium acetyltaurate on retinal cell death induced by NMDA	600-IRMI/MyRA 5/3/LESTARI (0088/2016)	20,000.00 Malaysian Ringgit	Co-researcher (Principle: Muhammad Iqbal Bin Abdul Hafidz; Co: Dr. Renu Agarwal; Prof Dr Nafeeza Mohd Ismail)	01-07-2016 30-06-2018 Completed
17. Effect of magnesium acetyltaurate on minerals and trace elements concentration in the rat retina after NMDA exposure	600-IRMI/DANA 5/3/LESTARI (0076/2016)	20,000.00 Malaysian Ringgit	Co-researcher (Principle: Aimy Binti Abdullah; Co: A/P Dr. Renu Agarwal; Prof Dr Nafeeza Mohd Ismail; A/P Dr.	01-07-2016 30-06-2018 Completed

			Anna Krasilnikova)	
18. Time- and dose-dependent effects of amyloid beta 1-40 peptide (A β 40) on retinal morphology and retinal ganglion cell survival	600-IRMI/MyRA 5/3/LESTARI (0112/2016)	<i>20,000.00 Malaysian Ringgit</i>	Co-researcher (Principle: Dr. Nur Hidayati Binti Mohd Sharif; Co: A/P Dr. Renu Agarwal; Prof Dr Nafeeza Mohd Ismail)	<i>01-07-2016 30-06-2018 Completed</i>
19. Involvement of C-Jun phosphorylation in the protective effect of magnesium acetyltaurinate against endothelin-1-induced RGC apoptosis	600-IRMI/DANA 5/3/LESTARI (0081/2016)	<i>20,000.00 Malaysian Ringgit</i>	Co-researcher (Principle: Dr. Lily Diana Binti Zainudin; Co: A/P Dr. Renu Agarwal; Prof Dr Nafeeza Mohd Ismail; A/P Dr. Anna Krasilnikova)	<i>01-07-2016 30-06-2018 Completed</i>
20. Studies to elucidate stimulation of matrix metalloproteinase secretion as mechanism of resveratrol-induced intraocular pressure reduction	600-IRMI/DANA 5/3/LESTARI (0082/2016)	<i>20,000.00 Malaysian Ringgit</i>	Co-researcher (Principle: Dr. Mohd Farhan Bin Hamdan; Co: A/P Dr. Renu Agarwal; A/P Dr. Anna Krasilnikova; Prof Dr Nafeeza Mohd Ismail)	<i>01-07-2016 30-06-2018 Completed</i>
21. Effects of resveratrol on ECM deposition by steroid-pretreated trabecular meshwork cells	600-IRMI/DANA 5/3/LESTARI (0075/2016)	<i>20,000.00 Malaysian Ringgit</i>	Co-researcher (Principle: Dr. Ahmad Bakhtiar Bin Md Radzi; Co: Dr. Renu Agarwal; A/P Dr. Anna Krasilnikova; Prof. Dr. Rohana Binti Abdul Ghani)	<i>01-07-2016 30-06-2018 Completed</i>
22. Study to investigate mechanism of neuroprotection by taurine against NMDA-induced retinal ganglion cell death	600-IRMI/MyRA 5/3/BESTARI (004/2017)	<i>40,000.00 Malaysian Ringgit</i>	Principle (Co: A/P Dr. Renu Agarwal; A/P Dr. Anna Krasilnikova; Prof Dr Nafeeza Mohd Ismail)	<i>01-03-2017 28-02-2019 Completed</i>

23. Effect of taurine against endothelin-1 induced retinal and optic nerve injury	600-IRMI/MyRA 5/3/BESTARI (006/2017)	40,000.00 Malaysian Ringgit	Co-researcher (Principle: A/P Dr. Renu Agarwal; Co: Prof Dr Nafeeza Mohd Ismail; A/P Dr. Anna Krasilnikova)	01-03-2017 28-02-2019 Completed
24. Dose- and time- depended effect of inhibitors of renin angiotensin system on dexamethasone- induced extracellular matrix deposition on cultured human trabecular meshwork cells.	600-IRMI/MyRA 5/3/BESTARI (013/2017)	40,000.00 Malaysian Ringgit	Co-researcher (Principle: Prof Dr Nafeeza Mohd Ismail; Co: A/P Dr. Renu Agarwal; A/P Dr. Anna Krasilnikova; Dr. Siti Hamimah Binti Sheikh Abdul Kadir)	01-03-2017 28-02-2019 Completed
25. Mechanisms of the protective effect of magnesium aceryltaurate against endothelin 1 induced RGC apoptosis in rats	600-IRMI/DANA 5/3/BESTARI (P) (003/2018)	35,000.00 Malaysian Ringgit	Co-researcher (Principle: Prof Dr. Renu Agarwal Co: Prof Dr Nafeeza Mohd Ismail)	01-01-2018 31-12-2019 Completed

ON-GOING

26. Mechanism of neuroprotection by philanthotoxin against NMDA-induced excitotoxicity in the retina of glaucoma rat model	FRGS/1/2017/SKK10/UNIKL/02/1 Universiti Kuala Lumpur (UniKL)	146,000.00 Malaysian Ringgit	Co-researcher (Principle: Dr Izuddin Fahmy Bin Abu (UniKL); Co: A/P Dr. Renu Agarwal, Dr Ian Mellor, Dr Reezal Bin Ishak)	18.08.2017- 31.05.2020 On-going
27. Mechanisms of action of resveratrol against dexamethasone- induced extracellular matrix remodeling by human trabecular meshwork cells	FRGS/1/2018/SKK08/UITM/02/7 600-IRMI/FRGS 5/3 (064/2019)	152,900.00 Malaysian Ringgit	Principle (Co: Renu Agarwal, Siti Hamimah Binti Sheikh Abdul Kadir, Nafeeza Binti Mohd Ismail, Puneet Agarwal)	2019-01-01 2021- 12-31 On-going
28. Brain-derived neurotrophic factor attenuates amyloid beta 1-40 induced visual	YPOMNM/2019-04 (2) 100-IRMI/PRI 16/6/2 (010/2019)	5,000.00 Malaysian Ringgit	Principle (Co-Principle: Mohd Aizuddin	01-04-2019 31-03-2021 On-going

impairment in sprague dawley rats				Bin Mohd Lazaldin Renu Agarwal; Co: Renu Agarwal)
29. Mechanisms underlying the effect of resveratrol on extracellular matrix secretion by dexamethasone-treated human trabecular meshwork cells: focus on non-canonical $\text{tgf-}\beta\text{2}$ -signalling	600-IRMI/FRGS 5/3 (413/2019) FRGS/1/2019/SKK08/UITM/02/18	134,800.00 <i>Malaysian Ringgit</i>	Co-researcher (Principle: Norhafiza Binti Razali; Co: Renu Agarwal, Nurul Alimah Binti Abdul Nasir)	01-09-2019 31-08-2021 <i>On-going</i>
30. Unravelling mechanisms of neuroprotection by resveratrol in rats with intracerebral haemorrhage: new insight into the role of adenosine A1 receptor	600-IRMI/FRGS-RACER 5/3 (002/2019) RACER/1/2019/SKK10/UITM/1	53,440.00 <i>Malaysian Ringgit</i>	Co-researcher Mentor (Principle: Roqiah Fatmawati Binti Abdul Kadir; Co: Noor Azliza Wani Binti Abd Aziz, Renu Agarwal)	01/09/2019 - 31/08/2021 <i>On-going</i>

UNDERGRADUATE SUPERVISION (INCLUDES CO-SUPERVISION)

STUDENT (NAME AND MATRIC NO.)	TITLE	LEVEL OF STUDY, COURSE CODE	SUPERVISORY STATUS (MAIN/CO-SUPERVISOR)	PROJECT STATUS (*COMPLETED, *ON-GOING)
RUSSIAN FEDERATION (DIPLOMA RESEARCH PROJECT)				
1. Maslova E.A.	«Magnesium deficiency and its correction in pathogenesis of hemorheological disturbances»	Diploma research project , Volgograd State Medical University (Volgograd, Russia)	Main	2005-2006 completed
2. Ubushaeva N.A.	«Magnesium deficiency in pathogenesis of inflammatory conditions»	Diploma research project , Volgograd State Medical University (Volgograd, Russia)	Main	2005-2006 completed
3. Kulikova A.S.	«Effect of magnesium chloride on endothelial dysfunction in rats fed this magnesium deficient diet»	Diploma research project , Volgograd State Medical University (Volgograd, Russia)	Co-Supervisor, (Supervisor: Dr. Maria V. Kharitonova)	2009-2010 completed
4. Konovalova N.A.	«An impaired cardiac functional reserve in rats fed with magnesium deficient diet and their correction with magnesium L-aspartate»	Diploma research project , Volgograd State Medical University (Volgograd, Russia)	Co-Supervisor, (Supervisor: Dr. Maria V. Kharitonova)	2009-2010 completed

MALAYSIA (MBBS WITH ADVANCE MEDICAL SCIENCES PROGRAMM)

5.	Nur Adilah Binti Awaludin 2009466624	"Studies to investigate anticataract effect of oral magnesium taurate in rats"	MBBS with Advance Medical Sciences Programm, UiTM, Faculty of Medicine	Co-Supervisor (Supervisor: A/P Dr. Renu Agarwal)	2011-2012 completed
6.	Nur Farhana Binti Ahmad Fisol 2009284036	"Effect of magnesium taurate eye drops in rats with galactose-induced cataract"	MBBS with Advance Medical Sciences Programm, UiTM, Faculty of Medicine	Main Supervisor	2011-2012 completed
7.	Fatin Kamilah Bt. Zakaria 2010894962	"Effect of liposomal formulation of magnesium taurate on lenticular oxidative stress"	MBBS with Advance Medical Sciences Programm, UiTM, Faculty of Medicine	Co-Supervisor (Supervisor: A/P Dr. Renu Agarwal)	2012-2014 completed
8.	Sarah Diyana Bt Saad 2010666122	"Altered magnesium homeostasis and calpain activity as pharmacological target in mechanism of anticataract effect of magnesium taurate"	MBBS with Advance Medical Sciences Programm, UiTM, Faculty of Medicine	Main Supervisor	2012-2014 completed
9.	Izza Liyana Bt. Azizan 2010423682	"Development and characterization of liposomal formulation of magnesium taurate and studies to evaluate its ocular distribution"	MBBS with Advance Medical Sciences Programm, UiTM, Faculty of Medicine	Co-supervisor, (Supervisor: Prof. Renad Alyautdin),	2012-2014 completed
10.	Siti Nur Laili Mohamed 2009646162	"Ocular hypotensive effects of angiotensin II type 1 receptor blockers in rat model of steroid induced ocular hypertension."	MBBS with Advance Medical Sciences Programm, UiTM, Faculty of Medicine	Co-Supervisor (Supervisor: A/P Dr. Renu Agarwal)	2012-2014 completed
11.	Tajul Atiqah Bt. Zaulkafali 2010228646	"Effect of angiotensin enzyme inhibitors on trabecular meshwork remodelling in ocular hypertensive rats."	MBBS with Advance Medical Sciences Programm, UiTM, Faculty of Medicine	Co-supervisor, (Supervisor: A/P Dr. Anna Krasilnikova)	2012-2014 completed

MALAYSIA (BACHELOR OF SCIENCE (BIOLOGY) / IJAZAH SARJANA MUDA SAINS (BIOLOGI))

12.	Mohd Yazrie Bin Yacob JP/7022/10 830418015975	Effects of magnesium taurate on delay and progression of amyloid beta 1-40 induced memory impairment in Sprague Dawley rats	Bachelor of Science (Biology) / Ijazah Sarjana Muda Sains (Biologi); School of Distance Education, USM Penang Campus: SS02	Co-supervisor, (Supervisor: Dr Siti Razila Abdul Razak, <i>USM</i>)	2017-2018 Completed Grade (B+)
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POSTGRADUATE SUPERVISION (INCLUDES CO-SUPERVISION)

STUDENT (NAME AND MATRIC NO.)	TITLE	LEVEL OF STUDY, COURSE CODE	SUPERVISORY STATUS (MAIN/CO-SUPERVISOR)	PROJECT STATUS (*COMPLETED, *ON-GOING)
MALAYSIA (PHD)				
1. Siti Norsyafika Kamarudin, Student ID No : 2113598555	Targeted delivery of BDNF-loaded poly (lactide-co-glycolide) nanoparticle to the brain: penetration through blood brain barrier and neuroprotective effect in stroke	PhD student (Pharmacology) UiTM, Faculty of Medicine Upgraded from Masters to PhD research: MD758 → MD958	Main (Co: Prof Nafeeza Mohd Ismail; Dr. Gabriele Anisah Ruth Froemming; Dr. Minaketan Tripathy)	<i>Passed viva on 04 July 2019 (minor corrections)</i>
2. Lidawani Binti Lambuk, Student ID No : 2014375257	Neuroprotective and antiapoptotic effects of magnesium acetyltaurate against NMDA-induced retinal and optic nerve damage in sprague-dawley rats	PhD student (Pharmacology) UiTM, Faculty of Medicine Upgraded from Masters to PhD research: MD758 → MD958	Main (Co: Prof Dato' Dr Ahmad Pauzi Md Yusof; Prof Dr Nafeeza Mohd Ismail; A/P Dr Puneet Agarwal)	<i>Passed viva on 19 January 2019 (minor corrections)</i>
3. Mohd Aizuddin Bin Mohd Lazaldin, Student ID No : 2014582589	Targeting the BDNF/TrkB pathway for the treatment of amyloid beta 1-40-induced neurodegeneration: focus on Alzheimer's disease and its ocular manifestations	PhD student (Pharmacology) UiTM, Faculty of Medicine Upgraded from Masters to PhD research: MD758 → MD958	Main (Co: A/P Dr. Anna Krasilnikova; Prof Dr Nafeeza Mohd Ismail; A/P Dr Puneet Agarwal)	On-going
4. Noor Azliza Wani Binti Abd. Aziz, Student ID No : 2017633344	Mechanisms of resveratrol-induced neuroprotection in rats with intracerebral haemorrhage	PhD student (Pharmacology) UiTM, Faculty of Medicine MD990	Main (Co: Assoc. Prof. Dr. Renu Agarwal, Prof. Dr. Azian Binti Abdul Latiff, Prof. Dr. Nafeeza Binti Mohd Ismail)	On-going
5. Natasha Najwa Binti Nor Arfuzir, Student ID No : 2014991763	Protective effect and molecular mechanism of action of magnesium acetyltaurate against endothelin-1-induced retinal and optic nerve damage in rats: focus on neuroinflammation.	PhD student (Pharmacology) UiTM, Faculty of Medicine Upgraded from Masters to PhD research: MD758 → MD958	Co-supervisor (Supervisor: A/P Dr. Renu Agarwal; Co: Prof Dr Nafeeza Mohd Ismail)	<i>Passed viva on 06 September 2019 (minor corrections)</i>
6. Azliana Jusnida Ahmad Jafri, Student ID No : 2014384847	Neuroprotective effects and molecular mechanisms of action of magnesium acetyltaurate against NMDA-induced retinal injury in rats: focus on calcium regulated proteins	PhD student (Physiology) UiTM, Faculty of Medicine Upgraded from Masters to PhD research: MD754	Co-supervisor (Supervisor: A/P Dr. Renu Agarwal; Co: Prof Dr Nafeeza Mohd Ismail, Prof Dato' Dr Ahmad Pauzi)	<i>Passed viva on 27 September 2019 (minor corrections)</i>

MALAYSIA (MASTERS BY SCIENCE)

1.	Adrian Julian, Student ID No : 2015494142	The discovery of a novel series of benzimidazoles as a new prospective class of ocular hypotensive agents	Masters by science (Pharmacology) UiTM, Faculty of Medicine MD758	Main (Co: A/P Dr. Renu Agarwal; Prof Dr Nafeeza Mohd Ismail)	09.2015-11.2018 <i>Passed viva on 13 February 2019 (major corrections)</i>
2.	Nurul Ainsya Binti Bakry Student ID No : 2014923207	Time- and dose-dependent effect of renin angiotensin system inhibitors on extracellular matrix deposition and modulating enzymes in dexamethasone treated human trabecular meshwork cells	Masters by science (Pharmacology) UiTM, Faculty of Medicine MD758	Co-supervisor (Supervisor: A/P Dr. Anna Krasilnikova)	<i>Passed viva on 20 February 2019 (minor corrections)</i>
3.	Mohamad Haiqal Nizar Bin Mohamad IC Number: 891209105869 Student ID No : 55360318003	Philanthotoxin (PhTX) as neuroprotective agent against NMDA-induced retinal injury in rats: focus on oxidative stress	Master of Engineering Technology (Chemical Engineering) Universiti Kuala Lumpur (UniKL)	Co-supervisor (Supervisor: Dr. Izuddin Fahmy Abu, UniKL)	10.07.2018 – 09.07.2021 <i>On-going</i>
4.	Muhammad Fattah Bin Fazel IC Number: 930925055259 Student ID No : 55360318002	Philanthotoxin (PhTX) as protective agent against NMDA-induced retinal injury in rats: focus on apoptosis	Master of Engineering Technology (Chemical Engineering) Universiti Kuala Lumpur (UniKL)	Co-supervisor (Supervisor: Dr. Izuddin Fahmy Abu, UniKL)	10.07.2018 – 09.07.2021 <i>On-going</i>
5.	Sayyidah Maryamul Azra Bt Zul Ramli Student ID No: 2015789217	Effectiveness of nanoparticulated BDNF to the CNS and its neuroprotective effect on experimental hemorrhagic stroke	Masters of Medical Science (Anatomy) UiTM, Faculty of Medicine MD757	Co-supervisor (Supervisor: Dr. Syed Baharom Syed Ahmad Fuad)	<i>On-going</i>
6.	Afiqq Aiman Abd Ghapor, Student ID No : 2019979095	Protective effect of trans-resveratrol and RU615 on excitotoxic retinal damage: involvement of adenosine A1 receptors	Masters of Science (Medicine) UiTM, Faculty of Medicine MD780	Main (Supervisor: Dr. Syed Baharom Syed Ahmad Fuad)	<i>On-going</i>

2. LIST OF PUBLICATION OF DR. IGOR N. IEZHITSA

[Google Scholar](#): h-index: 17
[Scopus ID: 6701491713](#): h-index: 13
[ResearcherID B-5687-2012](#): h-index: 12

FULL-TEXT ARTICLES IN INDEXED JOURNALS (MEDLINE, SCOPUS, ISI WEB OF KNOWLEDGE)

1. Surnina O.E., Lupandin V.I., **lezhitsa I.N.**, Pustueva N.V., Zotadze M.Z. The subjective evaluation of time intervals by 3- to 6-year-old children. *Zhurnal vyssheĭ nervnoĭ deiatelnosti imeni I P Pavlova*, 1994 Nov-Dec; 44(6): 1148-1154.
2. Surnina O.E., Lupandin V.I., Pustueva N.V., **lezhitsa I.N.** Study of time perception by children under school age by cross-modal matching method. *Voprosy psikhologii*, 1995 May-Jun; (3): 133-138.
3. Surnina O.E., Lupandin V.I., Kiseleva N.V., **lezhitsa I.N.** Sex and age differences in the subjective assessment of time by preschoolers. *Zhurnal vyssheĭ nervnoĭ deiatelnosti imeni I P Pavlova*, 1996 Mar-Apr; 46(2): 260-266.
4. Morozov I.S., Pukhova G.S., Abdulov N.A., Sergeeva S.A., Spasov A.A., **lezhitsa I.N.** The mechanisms of the neurotropic action of bromantan. *Ekspierimental'naia i klinicheskaia farmakologĭia*, 1999 Jan-Feb; 62(1): 11-14.
5. Spasov A.A., **Yozhitsa I.N.** (i.e. **lezhitsa I.N.**), Bugaeva L.I. Anisimova V.A. Benzimidazole derivatives: spectrum of pharmacological activity and toxicological properties (a review). *Pharmaceutical chemistry journal*, 1999; 33(5): 232-243. Translated from *Khimiko-farmatsevticheskĭi zhurnal*, 1999 May; 33(5): 6-17.
6. **lezhitsa I.N.**, Spasov A.A., Bugaeva L.I., Morozov I.S. The effect of the actoprotector preparation bromantane on the postnatal development of rat pups. *Ekspierimental'naia i klinicheskaia farmakologĭia*, 1999 Nov-Dec; 62(6): 39-44.
7. Bugaeva L.I., Verovskii V.E., **lezhitsa I.N.**, Spasov A.A. An acute toxicity study of bromantane. *Ekspierimental'naia i klinicheskaia farmakologĭia*, 2000 Jan-Feb; 63(1): 57-61.
8. **lezhitsa I.N.**, Bugaeva L.I., Spasov A.A., Morozov I.S. Effect of bromantane on the rat neurologic status in two month course. *Ekspierimental'naia i klinicheskaia farmakologĭia*, 2000 Sep-Oct; 63(5): 13-17.
9. Bugaeva L.I., Spasov A.A., Verovskii V.E., **lezhitsa I.N.** Acute toxicity of bemithyl and bromithyl. *Ekspierimental'naia i klinicheskaia farmakologĭia*, 2000 Nov-Dec; 63(6): 53-57.
10. **lezhitsa I.N.**, Spasov A.A., Bugaeva L.I. Effects of bromantan on offspring maturation and development of reflexes. *Neurotoxicology and teratology*, 2001 Mar-Apr; 23(2): 213-222.
11. Bugaeva L.I., Verovskii V.E., **lezhitsa I.N.**, Kuzubova E.A., Spasov A.A. Complex evaluation of the effect of bromantane on animal behavior. *Ekspierimental'naia i klinicheskaia farmakologĭia*, 2001 Sep-Oct; 64(5): 7-10.
12. **lezhitsa I.N.**, Spasov A.A., Bugaeva L.I., Morozov I.S. Toxic effect of single treatment with bromantane on neurological status of experimental animals. *Bulletin of experimental biology and medicine*, 2002 Apr; 133(4): 380-383. Translated from *Biulleten' ekspierimental'noi biologĭi i meditsiny*. 2002 Apr; 133(4), 438-441.
13. Spasov A.A., Smirnova L.A., **lezhitsa I.N.**, Sergeeva S.A., Ozerov A.A. Pharmacokinetics of benzimidazole derivatives *Voprosy meditsinskoĭ khimii*, 2002 May-Jun; 48(3): 233-258.
14. **lezhitsa I.N.**, Onishchenko N.V., Churbakova N.V., Parshev V.V., Petrov V.I., Spasov A.A. Effect of magnesium supplementation containing mineral bishofit (MgCl₂·6H₂O) solution and pyridoxine hydrochloride on erythrocyte magnesium depletion and behaviour of rats after three-month alcoholisation. *Magnesium research*, 2002 Dec; 15(3-4): 179-189.
15. Bugaeva L.I., Spasov A.A., Verovskii V.E., **lezhitsa I.N.** Preclinical safety prognosis for the nootropic drugs piracetam and picamilon based upon acute toxicity data. *Ekspierimental'naia i klinicheskaia farmakologĭia*, 2003 Jul-Aug; 66(4): 43-46.
16. Spasov A.A., Petrov V.I., **lezhitsa I.N.**, Onishchenko N.V., Churbakova N.V., Parshev V.V. Pharmacological activity of a complex magnesium-containing preparation based on mineral bishofit and pyridoxine hydrochloride studied on the model of chronic alcohol intoxication in rats. *Ekspierimental'naia i klinicheskaia farmakologĭia*, 2003 Sep-Oct; 66(5): 40-44.
17. **lezhitsa I.N.**, Spasov A.A., Zhuravleva N.V. Sinolitskii M.K., Voronin S.P. Comparative study of the efficacy of

- potassium magnesium L-, D- and DL-aspartate stereoisomers in overcoming digoxin- and furosemide-induced potassium and magnesium depletions. *Magnesium research*, 2004 Dec; 17(4): 276-292.
18. **Iezhitsa I.N.** Potassium and magnesium depletions in congestive heart failure – pathophysiology, consequences and replenishment. *Clinical calcium*, 2005 Nov; 15(11): 123-33.
 19. Spasov A.A., **Iezhitsa I.N.** Stereopharmacology of carnitine. *Rossiiskii fiziologicheskii zhurnal imeni I.M. Sechenova*, 2005 Dec; 91(12): 1469-80.
 20. Spasov A.A., **Iezhitsa I.N.**, Tiurenkov I.N., Perfilova V.N., Gurova N.A., Kravchenko M.S. Comparative evaluation of the effects of carnitine stereoisomers and racemate on the cardio- and hemodynamics of rats on a carnitine-deficient diet. *Vestnik Rossiiskoi akademii meditsinskikh nauk* 2006; (7): 20-27.
 21. Spasov A.A., **Iezhitsa I.N.**, Zhuravleva N.V., Sinolitskii M.K., Voronin S.P. Comparative study of the antiarrhythmic activity of magnesium aspartate L-, D- and DL-aspartate stereoisomers. *Kardiologiya* 2006; 46(7): 62-65.
 22. Spasov A.A., **Iezhitsa I.N.**, Pisarev V.B., Snigur G.L., Kravchenko M.S. Changes of myocardium, skeletal muscle and liver of rats fed carnitine-deficient diet and treated with carnitine optical isomers. *Morfologiya* 2006; 129(3): 48-52.
 23. Spasov A.A., **Iezhitsa I.N.**, Kravchenko M.S., Pisarev V.B., Snigur G.L. Effects of L-, D-, and DL-carnitine on morphometric parameters of skeletal muscle and exercise performance of laboratory animals receiving carnitine-deficient diet. *Bulletin of experimental biology and medicine* 2006 Oct;142(4): 458-460. Translated from *Biulleten' eksperimental'noi biologii i meditsiny* 2006 Oct;142(10): 441-443.
 24. Spasov A.A., **Iezhitsa I.N.**, Zhuravleva N.V., Gurova N.A., Sinolitskii M.K., Voronin S.P. Comparative study of the antiarrhythmic activity of L-, D- and DL-stereoisomers of potassium magnesium aspartate. *Eksperimental'naia i klinicheskaia farmakologiya* 2007 Jan-Feb;70(1):17-21.
 25. Spasov A.A., **Iezhitsa I.N.**, Kharitonova M.V., Kravchenko M.S. Effect of magnesium chloride and magnesium L-aspartate on seizure threshold in rats under conditions of dietary magnesium deficiency. *Bulletin of experimental biology and medicine* 2007 Aug;144(2):214-216. Translated from *Biulleten' eksperimental'noi biologii i meditsiny* 2007 Aug;144(8):181-183.
 26. Spasov A.A., **Iezhitsa I.N.**, Kravchenko M.S., Kharitonova M.V. Study of anti-inflammatory activity of some organic and inorganic magnesium salts in rats fed with magnesium-deficient diet. *Voprosy pitaniia* 2007;76(5):67-73.
 27. Spasov A.A., **Iezhitsa I.N.**, Kravchenko M.S., Kharitonova M.V., Stukovina A.Yu., Naumenko L.V. Effect of oral organic and inorganic magnesium salts on hemobiological state of rats fed with magnesium-deficient diet. *Gematologiya i transfuziologiya* 2007;52(5):38-44.
 28. Zinov'eva V.N., **Iezhitsa I.N.**, Spasov A.A. Magnesium homeostasis: mechanisms and inherited disorders. *Biomeditsinskaia khimiia* 2007 Nov-Dec;53(6):683-704.
 29. **Iezhitsa I.N.**, Spasov A.A. Potassium magnesium homeostasis: physiology, pathophysiology, clinical consequences of deficiency and pharmacological correction. *Uspekhi fiziologicheskikh nauk* 2008 Jan-Mar;39(1):23-41.
 30. Zinov'eva V.N., **Iezhitsa I.N.**, Spasov A.A. Magnesium homeostasis: mechanisms and Inherited disorders. *Biochemistry (Moscow) Supplement series B: Biomedical chemistry* 2008;2(2):133-147. Translated from *Biomeditsinskaia khimiia* 2007 Nov-Dec;53(6):683-704.
 31. Spasov A.A., **Iezhitsa I.N.**, Kravchenko M.S., Kharitonova M.V. The characterization of central neuromediation in rats fed with magnesium-deprived diet before and after magnesium replenishment. *Rossiiskii fiziologicheskii zhurnal imeni I.M. Sechenova* 2008 Jul;94(7):822-833.
 32. Spasov A.A., **Iezhitsa I.N.**, Kharitonova M.V., Gurova N.A. Arrhythmogenic threshold of the myocardium under conditions of magnesium deficiency. *Bulletin of experimental biology and medicine* 2008 Jul;146(1):63-65. Translated from *Biulleten' eksperimental'noi biologii i meditsiny* 2008 Jul;146(7):69-71.
 33. Spasov A.A., **Iezhitsa I.N.**, Kharitonova M.V., Kravchenko M.S. Depression-like and anxiety-related behaviour of rats fed with magnesium-deficient diet. *Zhurnal vysshei nervnoi deiatelnosti imeni I P Pavlova* 2008 Jul-Aug;58(4):476-85.
 34. Spasov A.A., **Iezhitsa I.N.** (i.e. **Iezhitsa I.N.**), Kharitonova M.V., Kravchenko M.S. Effect of some organic and inorganic magnesium salts on lipoprotein state in rats fed with magnesium-deficient diet. *Eksperimental'naia i klinicheskaia farmakologiya* 2008 Jul-Aug;71(4):35-40.
 35. Spasov A.A., **Iezhitsa I.N.**, Kharitonova M.V., Kravchenko M.S., Snigur G.L., Pisarev V.B. Experimental evidence

- of magnesium salts for treatment of calcium phosphate nephrolithiasis. *Nefrologiia* 2008;12(3):72-78.
36. Spasov A.A., **lezhitsa I.N.**, Kharitonova M.V., Kravchenko M.S., Snigur G.L. The role of alimentary magnesium deficiency in development of nephrolithiasis and its correction with magnesium salts in rats. *Voprosy pitaniia* 2008;77(6):62-71.
 37. Spasov A.A., **lezhitsa I.N.**, Kravchenko M.S., Kharitonova M.V. Features of central neurotransmission in animals in conditions of dietary magnesium deficiency and after its correction. *Neuroscience and behavioral physiology* 2009 Sep;39(7):645-653. Epub 2009 Jul 21. [A translation of *Rossiiskii fiziologicheskii zhurnal imeni I.M. Sechenova* 2008 Jul;94(7):822-833]
 38. Spasov A.A., **lezhitsa I.N.**, Kharitonova M.V., Kravchenko M.S. Effects of magnesium salts and their combinations with vitamin B₆ on oxalates crystalluria in rats fed with pyridoxine-deficient diet. *Urologiia* 2009 May-Jun;(3):22-25.
 39. Spasov A.A., **lezhitsa I.N.**, Kharitonova M.V., Kravchenko M.S. Pharmacological correction of pain sensitivity threshold in magnesium deficiency. *Patologicheskaiia fiziologiia i eksperimental'naia terapiia* 2010 Jan-Mar;(1):6-10.
 40. Spasov A.A., Petrov V.I., **lezhitsa I.N.**, Kravchenko M.S., Kharitonova M.V., Ozerov A.A. Comparative study of magnesium salts bioavailability in rats fed a magnesium-deficient diet. *Vestnik Rossiiskoi akademii meditsinskikh nauk* 2010;(2):29-37.
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DISSERTATIONS

1. **lezhitsa I.N.** *Study to investigate the neurotoxicological effects and mechanism of action of actoprotector drugs at acute and long-term administration* (Russian: *Психо- и нейротоксикологическое изучение актопротекторных препаратов при однократном и хроническом введении – Psikho- i neyrotoksikologicheskoye izucheniye aktoprotektoornykh preparatov pri odnokratnom i khronicheskom vvedenii*). Dissertation for **PhD degree** (candidate of biological sciences – name of the academic degree as used in Russia), 14.00.25: Pharmacology, Clinical Pharmacology; Russia, Volgograd: Volgograd Medical Academy, February 1998, 281 pp. [Russian]
2. **lezhitsa I.N.** *Basic aspects for the development of magnesium-containing therapeutic agents based on natural mineral bischofite*. (Russian: *Фундаментальные аспекты создания на основе минерала бишофит магнийсодержащих лекарственных средств – Fundamental'nyye aspekty sozdaniya na osnove minerala magniysoderzhashchikh lekarstvennykh sredstv*) Dissertation for **Dr. Sci. Biol. degree** (doctor of biological sciences – name of the academic degree as used in Russia), 14.00.25: Pharmacology, Clinical Pharmacology; Russia, Volgograd: Volgograd State Medical University, February 2008, 315 pp. [Russian]; ИКД¹:05200800288

NAME OF NATIONAL PATENT GRANTED

INVENTORS	TITLE OF WORK	APPLICANT'S NAME	APPLICATION DATE	DATE OF PUBLICATION	PATENT PUBLICATION NUMBER	REG. NUMBER
Sergei Petrovich Voronin (RU), Igor Nikolayevich Iëzhitsa (RU), Vladimir Ivanovich Petrov (RU), Spasov Alexander Alexeevich (RU), Maxim Konstantinovich Sinolitskii (RU), Stella Vladimirovna Sinolitskaya (RU)	Oral medical preparation for repletion of magnesium deficiency [Russian: <i>Пероральное лекарственное средство для восполнения дефицита магния в организме – Peroral'noye lekarstvennoye sredstvo dlya vospolneniya defitsita magniya v organizme</i>]	Joint Stock Company "Bioamid" (RU) [Russian: <i>Закрытое акционерное общество "Биоамид" – Zakrytoe aktsionernoe obshchestvo "Bioamid"</i>], Russian Federation	22/06/2006	10/01/2008	2336076 (2008.10.20)	RU 2006122160/15

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APPLICANT'S NAME	TITLE OF WORK	OWNER OF LICENSE	APPLICATION DATE	DATE OF FIRST PUBLICATION	NO APPLICATION	No. NOTIFICATION
Igor Nikolayevich lezhitsa , Siti Norsyafika Kamarudin, Minaketan Tripathy, Gabrielle Ruth Anisah Fromming, Nafeeza Mohd Ismail, Renad N Alyautdin	BDNF as neuroprotection in ischemic stroke	UiTM, Malaysia	06/03/2019	08/10/2017	LY2019000777	CRLY00013772

¹ ИНФОРМАЦИОННАЯ КАРТА ДИССЕРТАЦИИ (ИКД) – *Informatsionnaya Karta Dissertatsii*, Dissertation Information Card Number (Russian Federation) used to identify thesis in Russian Database

Igor Nikolayevich Iezhitsa, Renu Argawal, Mohd Aizuddin Mohd Lazaldin	BDNF as a neuroprotective agent against Alzheimer disease	UiTM, Malaysia	09/01/2019	01/12/2014	LY2019000139	CRLY00014360
Renu Argawal, Normie Aida Mohd Nasir, Siti Hamimah Sheikh Abdul Kadir, Anna Krasilnikova, Igor Nikolayevich Iezhitsa	Trans-resveratrol safety concentration for trabecular meshwork of eye	UiTM, Malaysia	09/01/2019	01/12/2014	LY2019000151	CRLY00014373

PHD AND MASTER THESIS EXAMINER / THE THESIS OPPONENT ²

STUDENT (NAME AND MATRIC NO.)	TITLE	LEVEL OF STUDY, COURSE CODE	ROLE	DATE OF EXAMINATION (VIVA) / THESIS DEFENCE
1. Elena Evgenievna Zatssepina (Russian: Елена Евгеньевна Зацепина)	Study to investigate gastroprotective activity of fixed-dose combination oral dosage form based on sea buckthorn oil (Russian: Экспериментальное изучение гастропротекторной активности комбинированной лекарственной формы на основе масла облепихового – Eksperimental'noye izucheniye gastroprotektornoy aktivnosti kombinirovannoy lekarstvennoy formy na osnove masla oblepikhovogo)	Ph.D. degree in Pharmacology (<i>candidate of biological sciences – name of the academic degree as used in Russia</i>); 14.00.25: Pharmacology, Clinical Pharmacology Pyatigorsk State Pharmaceutical Academy (Russian Federation)	The Thesis (External) Opponent (Volgograd State Medical University)	27 June 2008
2. Elena Valerevna Sorokina (Russian: Елена Валерьевна Сорокина)	Anti-diabetic activity of dried extract of <i>Gymnema sylvestre</i> (Russian: Противодиабетическая активность сухого экстракта Гимнемы лесной – Protivodiabeticheskaya aktivnost' sukhogo ekstrakta Gimnemy lesnoy)	Ph.D. degree in Pharmacology (<i>candidate of biological sciences – name of the academic degree as used in Russia</i>); 14.00.25: Pharmacology, Clinical Pharmacology Volgograd State Medical University (Russian Federation)	The Thesis (Internal) Opponent (Volgograd State Medical University)	22 October 2008
1. Noor Farah Binti Omar, Student ID No : 2014478508	Antiviral activity of N-substituted 5-(phenylamino)uracil derivatives against Chikungunya virus	Masters by science (Pharmacology) UiTM, Faculty of Medicine	The Thesis (Internal) Examiner (UiTM)	28 September 2017

² THE THESIS / DISSERTATION OPPONENT – The person debating with the doctoral candidate at the public thesis examination (The Commonwealth of Independent States (CIS), Northern European Countries (Norway, Sweden, Finland), Russian Federation)

2. Norasikin Ab Azis, Student ID No : 2015918709	Mechanism of anti-hypertensive effect of standardized aqueous-ethanolic extract of <i>Ficus Deltoidea Kunstleri</i> in spontaneously hypertensive rats	MD751 PhD student (Pharmacology) UiTM, Faculty of Medicine MD958	The Thesis (Internal) Examiner (UiTM)	03 October 2019
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JOURNAL PAPERS REVIEWER

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- 2019 ✓ Paper reviewed for *BMC Anesthesiology* (IF= 1.619)
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- 2017 ✓ 3 (Three) Papers reviewed for *Chemical Biology & Drug Design* (IF=2.396)
- 2017 ✓ Paper reviewed for *Acta Biochimica et Biophysica Sinica* (IF=2.181)
- 2016 ✓ Paper reviewed for *Biomedicine & Pharmacotherapy* (IF=2.759)
- 2016 ✓ Paper reviewed for *Journal of Clinical and Health Science*
- 2015 ✓ Paper reviewed for *AIMS Public Health*
- 2015 ✓ Paper reviewed for *Current Eye Research* (IF=1.639)
- 2014 ✓ Paper reviewed for *Drug Delivery* (IF=6.402)
- 2011 ✓ Paper reviewed for *Applied Physiology, Nutrition, and Metabolism* (IF=2.009)

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2017 – till now	Journal of Clinical & Health Sciences (JCHS)	eISSN 0127-984X	http://jchs-medicine.uitm.edu.my/
2017 – till now	Journal of Volgograd State Medical University (Journal of VolgSMU) (Russian: <i>Вестник Волгоградского государственного медицинского университета (Вестник ВолгГМУ) – Véstnik Volgográdskogo gosudárstvennogo meditsínskogo universitéta (Véstnik VolgGMU)</i>)	ISSN 1994-9480	http://vestnik.volgmed.ru/en/ http://vestnik.volgmed.ru/ru/
2018 - till now	Research Results in Pharmacology	ISSN 2588-0535	https://rrpharmacology.pensoft.net/ b

TOTAL LIST OF PUBLICATION

1. Sumina O.E., Lupandin V.I., **Yejiza I.N.** (i.e. **lezhitsa I.N.**), Pustueva N.V., Zotadze M.Z. The subjective evaluation of time intervals by 3- to 6-year-old children. *Zhurnal vysshei nervnoi deiatelnosti imeni I P Pavlova* 1994, Vol. 44, № 6, p.1148-1154. [Russian]
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7. Bugaeva L.I., Khamidiva T.V., **lezhitsa I.N.**, Skripnick S.R., Kozhevnikova E.V., Kuzubova E.A. *Influence of piracetam and phenotropil on rat reproductive function. IIIrd Russian national congress "The Man and Medicine"*. April 16-20, 1996, Moscow: "Farmedinfo" publisher, 1995, p. 255. [Russian]
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296. Marcus AJ, **Iezhitsa I**, Agarwal R, Vassiliev P, Spasov A, Zhukovskaya O, Anisimova V, Ismail NM. Intraocular pressure-lowering effects of imidazo[1,2-a]- and pyrimido[1,2-a]benzimidazole compounds in rats with dexamethasone-induced ocular hypertension. *European Journal of Pharmacology*. 2019; 850: 75-87. doi: 10.1016/j.ejphar.2019.01.059. [English]
MEDLINE
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ISI WEB OF KNOWLEDGE
IF = 3.170
SJR Rank Q2
297. Lambuk L, Jafri AJA, **Iezhitsa I**, Agarwal R, Bakar NS, Agarwal P, Abdullah A, Ismail NM. Dose-dependent effects of NMDA on retinal and optic nerve morphology in rats. *International Journal of Ophthalmology*. 2019;12(5): 746-753. doi: 10.18240/ijo.2019.05.08. [English]
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ISI WEB OF KNOWLEDGE
IF = 1.189
SJR Rank Q4
298. **Iezhitsa I.**, Marcus A.J., Agarwal R., Vassiliev P., Spasov A., Zhukovskaya O., Anisimova V., Ismail N.M. Intraocular pressure-lowering effects of imidazo[1,2-a]- and pyrimido[1,2-a]benzimidazole compounds in ocular-normotensive and ocular hypertensive rats. Abstract book of 4th Russian Conference on Medicinal Chemistry with international participants (*MedChem Russia 2019*). June 10-14, 2019, Ural Federal University named after the First President of Russia B.N. Yeltsin, Ekaterinburg, Russia [Symposium presentation]. Ekaterinburg: Ural Branch of the Russian Academy of Sciences, 2019, p.62-63.
http://medchem2019.uran.ru/Medchem2019/MedChem2019_abstracts.pdf [English]
ISBN 978-5-7691-2521-8
eLIBRARY.ru (Russian Science Citation Index)
299. Natasha Najwa Nor Arfuzir, Renu Agarwal, **Igor Iezhitsa**, Puneet Agarwal, Nafeeza Mohd Ismail Dose-Dependent Effects of Endothelin-1 on Retinal and Optic Nerve Morphology in Sprague Dawley Rats. *Neurochemical Journal*. 2019; 13(1): 73–80. https://doi.org/10.1134/S1819712419010045 [English]
ISI WEB OF KNOWLEDGE
IF = 0.298
SJR Rank Q4
300. **Igor Iezhitsa**, Lidawani Lambuk, Renu Agarwal, Nor Salmah Bakar, Puneet Agarwal, Nafeeza Mohd Ismail. Antiapoptotic mechanism of neuroprotection by magnesium acetyltaurate against NMDA-induced retinal damage in rats. Abstract book of 29th Annual Scientific Meeting of Malaysian Society of Neurosciences (MSN) “Celebrating 30th Anniversary of the Malaysian Society of Neurosciences”. July 4-7, 2019. Grand River View Hotel, Kota Bharu, Kelantan [Symposium presentation]. Malaysian Society of Neurosciences, 2019. [English]

301. Abd. Aziz N.A.W., **lezhitsa I.**, Agarwal R., Bakar N.S., Abd. Latiff A., Mohd. Ismail N. [English]
Neuroprotection by resveratrol against collagenase-induced intracerebral injury and neurobehavioural deficits in rats involve adenosine A1 receptor. Abstract book of 29th Annual Scientific Meeting of Malaysian Society of Neurosciences (MSN) "Celebrating 30th Anniversary of the Malaysian Society of Neurosciences". July 4-7, 2019. Grand River View Hotel, Kota Bharu, Kelantan [Oral presentation]. Malaysian Society of Neurosciences, 2019.
302. Mohamad M.H.N., Abu I.F., Agarwal R., **lezhitsa I.N.**, Franzyk H., Mellor I.R., Fazel [English]
M.F. Neuroprotective effects of philanthotoxin-343 in alleviating retinal ganglion cell damage in NMDA-induced glaucoma rat model. Abstract book of 29th Annual Scientific Meeting of Malaysian Society of Neurosciences (MSN) "Celebrating 30th Anniversary of the Malaysian Society of Neurosciences". July 4-7, 2019. Grand River View Hotel, Kota Bharu, Kelantan [Poster presentation]. Malaysian Society of Neurosciences, 2019
303. Fazel M.F., Abu I.F., Agarwal R., **lezhitsa I.N.**, Mellor I.R., Franzyk H., Mohamad [English]
M.H.N. Philanthotoxin-343 (PhTX) as a neuroprotective agent to alleviate visual impairments in NMDA-induced retinal injury in rats. Abstract book of 29th Annual Scientific Meeting of Malaysian Society of Neurosciences (MSN) "Celebrating 30th Anniversary of the Malaysian Society of Neurosciences". July 4-7, 2019. Grand River View Hotel, Kota Bharu, Kelantan [Poster presentation]. Malaysian Society of Neurosciences, 2019
304. Noor Azliza Wani Abd. Aziz, **Igor lezhitsa**, Renu Agarwal, Nor Salmah Bakar, Azian [English]
Abd. Latiff, Nafeeza Mohd. Ismail. Neuroprotection by resveratrol against collagenase-induced intracerebral injury in rats involves adenosine A1 receptor. Abstracts of 33rd Scientific Meeting of Malaysian Society of Pharmacology and Physiology (MSPP) "Towards innovative and sustainable research in drug discovery". July 15-16, 2019, The Everly Hotel, Putrajaya [Oral presentation – ORA001]. Malaysian Society of Pharmacology and Physiology, 2019.
305. Siti Norsyafika Kamarudin, **Igor lezhitsa**, Minaketan Tripathi, Renad Alyautdin, [English]
Nafeeza Mohd Ismail. Neuroprotective effect of poly (lactic-co-glycolide) nanoparticle-bound brain-derived neurotrophic factor in a middle cerebral artery occlusion model of ischemia in rats. Abstracts of 33rd Scientific Meeting of Malaysian Society of Pharmacology and Physiology (MSPP) "Towards innovative and sustainable research in drug discovery". July 15-16, 2019, The Everly Hotel, Putrajaya [Oral presentation – ORA009]. Malaysian Society of Pharmacology and Physiology, 2019.
306. Mohamad Haiqal Nizar Mohamad, Izuddin Fahmy Abu, Renu Agarwal, **Igor lezhitsa**, [English]
Henrik Franzyk, Ian R. Mellor, Muhammad Fattah Fazel. Neuroprotective effect of philanthotoxin (PhTX) against NMDA-induced retinal injury in rats involve reduction of nitrosative stress. Abstracts of 33rd Scientific Meeting of Malaysian Society of Pharmacology and Physiology (MSPP) "Towards innovative and sustainable research in drug discovery". July 15-16, 2019, The Everly Hotel, Putrajaya [Oral presentation – ORA018]. Malaysian Society of Pharmacology and Physiology, 2019.
307. Muhammad Fattah Fazel, Izuddin Fahmy Abu, Renu Agarwal, **Igor lezhitsa**, Nor [English]
Salmah Bakar, Ian R. Mellor, Henrik Franzyk, Mohamad Haiqal Nizar Mohamad. Philanthotoxin-343 (PhTX) prevents NMDA-induced retinal damage and visual impairments in Sprague Dawley rats. Abstracts of 33rd Scientific Meeting of Malaysian Society of Pharmacology and Physiology (MSPP) "Towards innovative and sustainable research in drug discovery". July 15-16, 2019, The Everly Hotel, Putrajaya [Oral presentation – ORA005]. Malaysian Society of Pharmacology and Physiology, 2019.
308. Normie Aida Mohd Nasir, Renu Agarwal, Anna Krasilnikova, Siti Hamimah Sheikh [English]
Abdul Kadir, **Igor lezhitsa**, Norhafiza Razali, Mohd Farhan Bin Hamdan, Nafeeza Mohd Ismail. Effect of trans-resveratrol on matrix metalloproteinases (MMPs) secretion by dexamethasone treated human trabecular meshwork cells (HTMCs). Abstracts of 33rd Scientific Meeting of Malaysian Society of Pharmacology and Physiology (MSPP) "Towards innovative and sustainable research in drug discovery". July 15-16, 2019, The Everly Hotel, Putrajaya [Poster presentation – 05R]. Malaysian Society of Pharmacology and Physiology, 2019.

309. Noor Azliza Wani Abd. Aziz, **Igor lezhitsa**, Renu Agarwal, Nor Salmah Bakar, Azian Abd. Latiff, Nafeeza Mohd. Ismail. Neuroprotection by resveratrol against collagenase collagenase-induced intraatrial injury in rats involves adenosine A1 receptor stimulation. Abstracts of Malaysian Anatomical Association Conference (MAAC 2019) "Paradigm of Translational Research in Anatomy". September 4-5, 2019, Marina Putrajaya, Kuala Lumpur, Malaysia [Oral presentation – O44]. Malaysian Anatomical Association Conference, 2019, p. 34. [English]
310. Mohamad Haiqal Nizar Mohamad, Izuddin Fahmy Abu, Renu Agarwal, **Igor lezhitsa**, Henrik Franzyk, Ian R. Mellor, Muhammad Fattah Fazel. Neuroprotective approach for the intervention of glaucoma associated diabetes mellitus using Philanthotoxin (PhTX-343). Abstract book of 2019 International Congress of Diabetes and Metabolism (ICDM 2019), October 10-12, 2019, Grand Hilton Seoul Hotel, Korea. (Poster presentation – PE322). *Diabetes & Metabolism Journal*. Oct 2019; 43 (Suppl 1): 113. [English]
MEDLINE
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ISI WEB OF KNOWLEDGE
IF = 3.263
SJR Rank Q1
311. Muhammad Fattah Fazel, Izuddin Fahmy Abu, Renu Agarwal, **Igor lezhitsa**, Nor Salmah Bakar, Ian R. Mellor, Henrik Franzyk, Mohamad Haiqal Nizar Mohamad. Neuroprotective effect of Philanthotoxin-343 (PhTX-343) on NMDA-induced retinal damage and visual impairments in Sprague Dawley rats. Abstract book of 2019 International Congress of Diabetes and Metabolism (ICDM 2019), October 10-12, 2019, Grand Hilton Seoul Hotel, Korea. (Oral presentation – OP4-1). *Diabetes & Metabolism Journal*. Oct 2019; 43 (Suppl 1): 40. [English]
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ISI WEB OF KNOWLEDGE
IF = 3.263
SJR Rank Q1
312. Afiq Aiman Abd Gapor, **Igor lezhitsa**, Renu Agarwal, Nurul Alimah Abdul Nasir, Alexander Spasov, Olga Zhukovskaya. Protective Effect of RU615 on NMDA-Induced retinal damage and retinal ganglion cell death in sprague dawley rats: involvement of adenosine A1 receptor. Abstract book of UiTM Research Fiesta 2019, Dewan Berlian, UiTM Selangor, October 12-13, 2019, p. 20 (Poster presentation – A12) [English]
313. Noor Azliza Wani Abd. Aziz, **Igor lezhitsa**, Renu Agarwal, Nor Salmah Bakar, Azian Abd. Latiff, Nafeeza Mohd. Ismail. Adenosine A1 receptors play an important role in neuroprotection by resveratrol against neurobehavioural deficits in rat model of haemorrhagic stroke. Abstract book of UiTM Research Fiesta 2019, Dewan Berlian, UiTM Selangor, October 12-13, 2019, p. 36 (Poster presentation – A28) [English]
314. Siti Norsyafika Kamarudin, **Igor lezhitsa**, Minaketan Tripathi, Renad Alyautdin, Nafeeza Mohd Ismail. Neuroprotective effect of poly (lactic-co-glycolide) nanoparticle-bound brain-derived neurotrophic factor in a middle cerebral artery occlusion model of ischemia in rats. Abstract book of UiTM Research Fiesta 2019, Dewan Berlian, UiTM Selangor, October 12-13, 2019, p. 39 (Poster presentation – A31) [English]
315. Anna Krasilnikova, Nurul Ainsya Bakry, Renu Agarwal, Siti Hamimah Sheikh Abdul Kadir, **Igor lezhitsa**, Nafeeza Mohd Ismail. The role of inhibitors of the renin-angiotensin system in the attenuation of dexamethasone-induced remodeling in the trabecular meshwork. 24th Iranian and 3rd International Congress of Physiology and Pharmacology", 30th October to 1st November, 2019, Shahed University, Tehran, Iran. *Journal of Basic and Clinical Pathophysiology* 2019-2020 Autumn-Winter; Vol. 7 Suppl 1, p.106 [Symposium presentation – S081146-1]
http://cong24.phypha.ir/files/site1/files/Final_Booklet2-9-98.pdf [English]
ISSN: 2322-1895
316. **Igor lezhitsa**, Adrian Julian Marcus, Renu Agarwal, Pavel Vassiliev, Alexander Spasov, Olga Zhukovskaya, Vera Anisimova, Nafeeza Mohd Ismail. The discovery of a novel series of benzimidazoles as a new prospective class of ocular hypotensive agents. 24th Iranian and 3rd International Congress of Physiology and Pharmacology", 30th October to 1st November, 2019, Shahed University, Tehran, Iran. *Journal of Basic and Clinical Pathophysiology* 2019-2020 Autumn-Winter; Vol. 7 Suppl 1, p.107 [Symposium presentation – S081146-2]
http://cong24.phypha.ir/files/site1/files/Final_Booklet2-9-98.pdf [English]
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317. Afiq Aiman B Abd Gapor, **Igor lezhitsa**, Renu Agarwal, Nurul Alimah Abdul Nasir, Alexander Spasov, Olga Zhukovskaya. Protective effect of RU615 and trans-resveratrol on NMDA-induced retinal damage in Sprague Dawley rats. Abstract book of Graduate Research Symposium 2019, 26th November 2019, Faculty of Health and Medical Sciences, Taylor's University Lakeside Campus, p. 27. (Poster presentation) [English]

BOOKS, INVITED BOOK CHAPTERS, MANUALS AND EDUCATIONAL MATERIALS

1. Petrov V.I., Spasov A.A., Nedogoda S.V., Gurova N.A., **lezhitsa I.N.**, Stepanov A.V., Ivakhnenko I.V., Efremov A.P. The Russian encyclopaedia of nutritional supplements. Eds.: V.I. Petrov, A.A. Spasov, Moscow: "GEOTAR-Meditsina" publishing house, 2007, 1056 pp. **[Russian]**, Гриф УМО
ISBN: 978-5-9704-0452-2
2. Kosolapov V.A., Chernikov M.V., Grechko O.Yu., **lezhitsa I.N.**, Kucheriavenko A.F. Choice questions in pharmacology: The manual in English. Eds.: A.A. Spasov, V.V. Zhura, Volgograd: publisher of Volgograd State Medical University, 2007, 154 pp. **[English]**, Гриф УМО
3. **lezhitsa I.N.**, Gurova N.A., Kosolapov V.A., Orobinskaia T.A., Chernikov M.V., Shcherbakova N.M. The manual for students on training for final control work in pharmacology (II part). Eds.: A.A. Spasov, Volgograd: publisher of Volgograd State Medical University, 2007, 110 pp. **[Russian]**, Гриф УМО
4. Nafeeza Mohd Ismail, Renu Agarwal, **Igor lezhitsa**. MCQs in cardiovascular pharmacology. Shah Alam, UiTM, Faculty of medicine: University Publication Centre (UPENA), 2011, 222 pp. **[English]**
ISBN: 978-967-363-261-9
5. Spasov A.A., **lezhitsa I.N.**, Vasil'ev P.M., Ozerov A.A. Pharmacology of drug stereoisomers – Monograph. Volgograd: Publisher of Volgograd State Medical University, 2011, 344 p. **[Russian]**
ISBN: 978-5-9652-0153-2
6. Nafeeza Mohd Ismail, Renu Agarwal, **Igor lezhitsa**. MCQs in cardiovascular pharmacology. Shah Alam, UiTM, Faculty of medicine: Penerbit Press, 2011 (reprinted 2012), 222 pp. **[English]**
ISBN: 978-967-363-261-9
7. Nafeeza Mohd Ismail, **Igor lezhitsa**, Muhammad Huzaimi Haron. PBQ workbook on cardiovascular pharmacology. Shah Alam, UiTM, Faculty of Medicine: Penerbit Press, 2013, 91 pp. **[English]**
ISBN: 978-967-363-425-5
8. **lezhitsa, I.N.** (2014). Corticosteroids (Ch 12). In: Gupta, SK., Agarwal, R. and Srivastava S. Textbook on Clinical Ocular Pharmacology & Therapeutics. New Delhi: Jaypee Brothers Medical Publishers. p. 171-181. **[English]**
ISBN: 978-93-5152-341-3
9. Srivastava S., **lezhitsa I.N.**, Gaur S. (2014). Nutritional Supplements: Miscellaneous Drugs (Ch 19). In: Gupta, SK., Agarwal, R. and Srivastava S. Textbook on Clinical Ocular Pharmacology & Therapeutics. Textbook on Clinical Ocular Pharmacology & Therapeutics. New Delhi: Jaypee Brothers Medical Publishers. p. 271-285. **[English]**
ISBN: 978-93-5152-341-3

INVENTION INNOVATION & DESIGN EXHIBITIONS

1. **INVENTION, INNOVATION AND DESIGN EXPO (IIDEX2013)** "Knowledge Wealth Creation". 15-17 Mac 2013, Dewan Agung Tuanku Canselor, UiTM Shah Alam (Jury)
2. **Innovation Competition Day 20018** at Faculty of Medicine, UiTM as pre IIDEX2018 event, Academic Building, Faculty of Medicine, UiTM, Sg Buloh Campus, 25 July 2018

Silver Medal winner (Adrian Julian Marcus); Silver Medal winner (Lidawani Lambuk); Gold Medal winner (Azliana Jusnida Ahmad Jafri); Bronze Medal winner (Mohd Aizuddin bin Mohd Lazaldin); Bronze Medal winner (Natasha Najwa Nor Arfuzir); Bronze Medal winner (Normie Aida Mohd Nasir); Bronze Medal winner (Siti Norsyafika Kamarudin)
1. **Invention Innovation & Design Exposition 2018 (IIDEX 2018)**, Universiti Teknologi MARA, Dewan Agung Tuanku Canselor (DATC), Shah Alam, Selangor, Malaysia (<http://iidex.com.my/iidex2018/>); **Silver Medal winner** for presentation "*Magnesium Acetyltaurate for Prevention of Vision Loss in Ophthalmic Diseases Causing Irreversible Blindness*" (Renu Agarwal, Igor lezhitsa, Azliana Jusnida Ahmad Jafri, Lidawani Lambuk, Natasha Najwa Nor Arfuzir)
2. **30th International Invention, Innovation & Technology Exhibition 2019 (ITEX 2019)**, 2-4 May 2019, Kuala Lumpur Convention Centre, Kuala Lumpur, Malaysia (KLCC). **ITEX 2019 Silver Medal** for the invention "*PhTX-343 as anti-glaucoma agent*" (Izuddin Fahmy Abu, Mohamad Haiqal Nizar Mohamad, Muhammad Fattah Fazel,

Renu Agarwal, **Igor Iezhitsa**, Henrik Franzyk, Ian R. Mellor)

3. **International Conference and Exposition on Inventions by Institutions of Higher Learning (PECIPTA 2019):** PECIPTA'19 @ UTHM Johor, 22-23 September 2019, Ministry of Education Malaysia and Universiti Tun Hussein Onn Malaysia (UTHM), Batu Pahat, Johor **PECIPTA 2019 Silver Medal** for the invention "PhTX-343 – a promising neuroprotective anti-glaucoma agent" (Izuddin Fahmy Abu, Mohamad Haiqal Nizar Mohamad, Muhammad Fattah Fazel, Renu Agarwal, **Igor Iezhitsa**, Henrik Franzyk, Ian R. Mellor)

INTERNATIONAL, NATIONAL AND REGIONAL SYMPOSIUM PARTICIPANT

1. 1st Congress of Russian Scientific Society of Pharmacologists "Fundamental researches as a basis of drugs creation". October 9-13, 1995, Volgograd.
2. IInd, IIIrd, IXth and XIIIth Russian National Congresses "The Man and Medicine". April 10-15, 1995; April 16-20, 1996, April 8-12, 2002 and April 3-7, 2006 Moscow (including symposium "100 anniversary of carnitine revelation: from revelation till wide clinical application").
3. 1st All-Russia Conference of Toxicologists "Urgent problems of theoretical and applied toxicology". St.-Petersburg, 1995.
4. XIVth International Symposium on Medicinal Chemistry, 1996, 8-12 September, Maastricht, the Netherlands.
5. 11th Noordwijkerhout-Camerino Symposium "Trends in drug research" 11-15 May 1997, Noordwijkerhout, the Netherlands³.
6. International Joint Meeting of Physiology. Sociedad Española de Fisiológicas (XXVIII Congreso Nacional) & The American Physiological Society. 4-7 February 1997, Malaga, Costa Del Sol, Spain.
7. Fourth National Congress of Pharmacology: "The challenges in the face of pharmacology on the verge of 21st century", 9-11 October 1997, Bulgaria, Sofia.
8. XIIIth International Congress of Pharmacology "From Molecular to Integrative Pharmacology: The IUPHAR Gateway to the 21st Century". 26-31 July 1998, München, Germany.
9. Conference of the Young Scientists of Russia with the international participation: "Fundamental sciences and progress of clinical medicine", devoted to 240th anniversary of I.M.Sechenov's Moscow Medical Academy, Moscow, 1998.
10. VIth and XIth Scientific – practical conferences on creation and approbation of new medicinal means: "Medicines for the man", Kharkov, 1998, 1999.
11. All-Russia Scientific Conference: "From *Materia Medica* to Modern Medical Technology". 13-15 May 1998, St.-Petersburg.
12. XVth EFMC International Symposium on Medicinal Chemistry. 6-10 September 1998, Edinburgh, Scotland.
13. All-Russia Scientific Conference with the international participation "Urgent problems of experimental and clinical pharmacology", June 2-5 1999. St.-Petersburg
14. 6th International Congress on Amino Acids, Bonn, Federal Republic of Germany, August 3-7, 1999⁴,
15. 12th Camerino-Noordwijkerhout Symposium "Receptor chemistry towards the third millennium", September 5-9, 1999, Camerino, Italy.
16. Annuary Regional Scientific Conference "The I.P. Pavlov's doctrine at the present stage and its development in proceedings of the Volgograd scientists", November 16-18 1999, Volgograd,
17. 55th Regional conference on pharmaceutics, pharmacology and training of personnel. Pyatigorsk State Pharmaceutical Academy, Pyatigorsk. 2000
18. International Conference: "Central and peripheral mechanisms of autonomic nervous system". Ukraine, Donetsk, June, 7-11, 2000.

³ Award of Young People Affairs Department (Administration of Volgograd Region) for travelling on 11th Noordwijkerhout-Camerino Symposium

⁴ Travel Award, 6th International Congress on Amino Acids (Bonn, Federal Republic of Germany, 3-7 August 1999)

19. EUROTOX 2000; EUROTOX 2001. 17-20 September 2000. London. UK; 13-16 September 2001. Istanbul, Turkey.
20. VIII, IX and X (Anniversary) Young Scientists Conferences "Actual problems of pathophysiology" St.-Petersburg State Medical University. January 29-30, 2002⁵; April 18-19, 2003⁶, April 15-16, 2004.
21. 6th International Congress "Actual problems of creation of new natural origin drug". St.-Petersburg, Russia, July 4-6, 2002.
22. All-Russia Scientific Conference "Neuropharmacology in XXI century", devoted to 110th anniversary of academician AMS USSR S.V. Anichkov, September 18-20, 2002, St.-Petersburg.
23. 15th Congress of the European College of Neuropsychopharmacology. Barcelona, Spain, 5-9 October 2002⁷; 8th ECNP Regional Meeting. Moscow, Russia, April 14-16, 2005
24. 2nd Congress of Russian Scientific Society of Pharmacologists "Fundamental problems of pharmacology". Moscow, April 21-25, 2003.
25. 58th Inter-regional conference on pharmacy and pharmacology: "Development, research and marketing of new pharmaceutical production", Pyatigorsk State Pharmaceutical Academy, Pyatigorsk. 2003.
26. Scientific conference devoted 50-years of Altay State Medical University: "Actual problems of pharmacology".
27. Scientific & practical conference of the paediatrists of Russia: "Pharmacotherapy in pediatrics", September 23-24, 2003, Moscow.⁸
28. International scientific & practical conference, devoted 200-years of Caucasian mineral waters: "Bioresources. Biotechnologies. Innovations of South of Russia". October 21-24, 2001, Pyatigorsk.
29. VI Cardiostim Pan Slavic International Congress on Cardiac Pacing and Electrophysiology; VIII Russian Symposium on Cardiac Pacing and Electrophysiology; VI Russian Symposium «Diagnosis and therapy of arrhythmias in children»; IV International Symposium «Electronics in Medicine. Monitoring, Diagnosis, Therapy». St.Petersburg. February 5–7th, 2004.
30. Young scientists scientific & practical conference "Urgent questions of clinical and experimental medicine" St.-Petersburg.
31. 8th International Symposium on Metal Ions in Biology and Medicine. Hungarian Academy of Sciences, Budapest, Hungary, May 18-22, 2004⁹.
32. I.P. Pavlov's Physiological society XIX Congress, Ekaterinburg, Russia, September 20-24, 2004.
33. Young scientists scientific & practical conference. Ukraine, Odessa, Odessa State Medical University. October 14-16, 2004.
34. Gordon Research Conference on Magnesium in Biochemical Processes & Medicine. Ventura, CA, USA. February 6-11, 2005¹⁰.
35. 1st Annual European Congress (X Jubilee Polish Magnesium Symposium) "Magnesium and other bioelements in organism and in environment" Magnesium Symposium 2005. Kraków, Poland. September 23-24, 2005¹¹.
36. Inter-regional scientific & practical conference of young scientists with international participation: "Modern directions of theoretical and applied medicine". Voronezh: Voronezh state medical academy, 2005.
37. 4th International Conference "Biological basis of individual sensitivity to psychotropic drugs" March 13-16, 2006, "Podmoscovje". Moscow: State Zakusov Institute of Pharmacology RAMS.

⁵ The diploma of the first degree was awarded for the work (St.-Petersburg State Medical University. January 29-30, 2002)

⁶ The diploma of the first degree was awarded for the work (St.-Petersburg State Medical University. April 18-19, 2003)

⁷ The work was selected for ECNP Fellowship Award 2002 (Barcelona, Spain, 5-9 October 2002).

<http://www.ecnp.nl/Matters/number4/fellowship.htm>

⁸ The diploma of the first premium was awarded in competition of young scientists (Moscow, September 23-24, 2003).

⁹ Grant-in-Aid of Open Company "Ruvenex" (Moscow) for travelling on 8th International Symposium on Metal Ions in Biology and Medicine (Budapest, Hungary, May 18-22, 2004)

¹⁰ Attending Gordon Research Conference on Magnesium in Biochemical Processes & Medicine (Ventura CA, USA) was sponsored by Grant-in-Aid from the Chair's Fund of GRC

¹¹ Grant-in-Aid of Joint-Stock Company "BioAmid" (Saratov) for travelling on 1st Annual European Congress (X Jubilee Polish Magnesium Symposium) "Magnesium and other bioelements in organism and in environment" Magnesium Symposium 2005 (Kraków, Poland. September 23-24, 2005)

38. 9th International Symposia on Metal Ions in Biology and Medicine "Metal ions role in life: an integrated view". Centro de Congressos da Universidade Católica, Lisboa, Portugal, May 21-24, 2006.¹²
39. 11th International Magnesium Symposium & Joint Meeting of the Japanese Society for Magnesium Research. Shima Kanko Hotel, Kashikojima, Japan, October 23-26, 2006 ¹³.
40. 2nd International scientific & practical conference "Bioelements" of the Russian Society of Trace Elements in Medicine (RUSTEM): "Scientific bases and experience of application of bioelements in medicine, sports, the food-processing industry and agriculture". Orenburg, Russia, January 23-25, 2007.
41. III Congress of Russian scientific society of the pharmacologists "Pharmacology to practical public health services". Saint-Petersburg, Russia, September 23-27, 2007,
42. IX Congress of International association of morphologists. Bukhara, Uzbekistan, May 14-17, 2008.
43. International symposium «Adaptable physiology and quality of life: problems of traditional and innovational medicine», devoted to an 80-anniversary of prof. N.A. Agadzhanian, Moscow, Russia, May 15-16, 2008.
44. 10th Symposium on Metal Ions in Biology and Medicine. Conceil Général de Haute-Corse, Bastia, Corsica, France, May 19-22, 2008.
45. Symposium "Results of fundamental and applied researches for creation of new drugs" Moscow, June 9-11, 2008.
46. II congress of the Russian Society of Trace Elements in Medicine (POCMЭM), November 24-27, 2008, Tver, Russia.
47. 55th anniversary regional scientific conference of the Volgograd state medical university "Modern innovational medicine for the population of Volgograd area", December 8-12, 2008, Volgograd, Russia.
48. XIIth International Magnesium Symposium, September 22-25 2009, Iasi, Romania. (**Oral Presentation**)
49. 24th Scientific Meeting of the Malaysian Society of Pharmacology and Physiology (MSPP 2010) "Nature & Health", 2-3 June 2010, SACC Convention Center, Shah Alam, Malaysia (**Organizing Committee, Oral Presentation**)
50. 4th International FESTEM Symposium on Trace Elements and Minerals, 9-12 June, 2010, Saint Petersburg, Russia.
51. VII Scientific Conference "Biomedical and biomodeling." Moscow, Moscow region - Svetlye Gory [VII nauchno - prakticheskaya konferentsiya «Biomeditsina i Biomodelirovanie». Moskva, Moskovskaya oblast' - Svetlye Gory], 24-26 May 2011.
52. 25th Scientific Meeting of the Malaysian Society of Pharmacology and Physiology (MSPP 2011), May, 25- 26, 2011, The Faculty of Medicine and Health Sciences, Universiti Putra Malaysia (UPM), Serdang, Selangor, Malaysia.
53. NCCR 2011 Pre-conference Event "Clinical Trial Methods & Critical Appraisal Skills", Sunway Resort Hotel & Spa, June 19 - 20, 2011
54. NCCR 2011 Pre-conference Event "Research Governance & Ethics", Sunway Resort Hotel & Spa, June 21, 2011
55. National Conference for Clinical Research 2011 (NCCR 2011) "Trials, Registries and Databases: Many Angles, One Aim", Sunway Pyramid Convention Centre, Petaling Jaya, Selangor, 22-24 June 2011
56. The Congress on Natural Products, Khao Lak Emerald Resort & Spa, Phang Nga, Thailand, 17 & 18 October 2011.
57. III International Scientific and Practical Conference "Bioelements" (fundamentals and practical experience of bioelements application in medicine, food industry, environment and agriculture). [III Mezhdunarodnaya nauchno - prakticheskaya konferentsiya "Bioelementy" (Fundamental'nye osnovy i prakticheskii opyt primeneniya bioelementov v meditsine, pishchevoi promyshlennosti ekologii i sel'skom khozyaistve)] Orenburg, Russia, 15-17 November 2011.

¹² Attending 9th International Symposium on Metal Ions in Biology and Medicine was sponsored by INTAS Conference Individual Grant

¹³ Attending 11th International Magnesium Symposium & Joint Meeting of the Japanese Society for Magnesium Research was sponsored by The Russian Foundation for Basic Research and Organizing committee of Magnesium Symposium

58. 26th Scientific meeting of Malaysian Society of Pharmacology and Physiology (MSPP 2012) "Translational research for sustainable wellness: From perception to reality". 18-20th May 2012, Equatorial Hotel, Penang, Malaysia.
59. 11th Annual Scientific Meeting, College of Pathologists, Academy of Medicine. 8-10th June 2012, Crown Plaza Mutiara Hotel, Kuala Lumpur, Malaysia (**Oral Presentation**).
60. IVth Russian Congress of Pharmacology (Innovations in Modern Pharmacology), Korston Hotel & Mall, Kazan, Russian Federation, September, 18-21 2012 (**Oral and Poster Presentations**).
61. 12th Meeting of the Asia Pacific Federation of Pharmacologists. Shanghai, China, July 9-13, 2013. (**Oral Presentation, Chairpersons of Conference Session**)
62. 27th Scientific Meeting of Malaysian Society of Pharmacology and Physiology "Towards Comprehensive Wellness". MS Garden Hotel, Kuantan, Pahang, September 6-8, 2013. (**Oral Presentation, Best Oral Presentation**)
63. XXII Congress of the IP Pavlov's Physiological Society (XXII Съезд Физиологического общества им. И.П. Павлова), Volgograd, Russian Federation, 16-20 September 2013 (**Oral Presentation**)
64. Research Colloquium 2013 "Enhancing Passion for Research & Innovation", 4 & 5 December 2013, Auditorium 3. UiTM, Sg. Buloh
65. 17th World Congress of Basic and Clinical Pharmacology, 13–18 July 2014, Cape Town International Convention Centre (CTICC), Cape Town, South Africa (**Poster Presentation**)
66. Pharmacology & Physiology International Scientific Congress 2014 (PPISC2014). 22 to 24 August 2014, Putra World Center, Kuala Lumpur, Malaysia.
67. ASCEPT-BPS joint scientific meeting "Tomorrow's medicines: pharmacology, patients and populations". [*The first joint meeting between the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists (ASCEPT) and the British Pharmacological Society (BPS) in association with the Hong Kong Pharmacology Society (HKPS) and the Asia Pacific Federation of Pharmacologists (APFP)*] 19-21 May 2015, University of Hong Kong.
68. 29th Scientific Meeting of the Malaysian Society of Pharmacology and Physiology "Biomolecules in Science and Health", 24-25th August 2015, Setia City Convention Centre (SCCC), Shah Alam, Selangor, Malaysia. (**Organizing Committee, Invited Symposium Speaker**)
69. Research Week 2015 "Increasing Effectiveness of Research and Innovation for Health", 5-9 October 2015, Faculty of Medicine, Sungai Buloh Campus
70. 13th Asia Pacific Federation of Pharmacologist (APFP) Meeting "New Paradigms in Pharmacology for Global Health", 1-3 February 2016, Berkeley Hotel Pratunam, Bangkok, Thailand (**Oral Presentation**)
71. 30th Scientific Meeting of the Malaysian Society of Pharmacology and Physiology "Health Sciences: Frontiers in Translational Medicine", 15-16th August 2016, Putrajaya, Malaysia
72. 14th Meeting of the Asian-Pacific Society for Neurochemistry (APSN2016). 27-30 August 2016, Hotel Istana, Kuala Lumpur, Malaysia.
73. 30th Scientific Meeting of the Malaysian Society of Pharmacology and Physiology "Health Sciences: Frontiers in Translational Medicine", 15-16th August 2016, Putrajaya, Malaysia (**Poster Presentation**).
74. Second joint venture between the Australasian Society of Clinical and Experimental Pharmacologists and Toxicologists (ASCEPT) and the Molecular Pharmacology of GPCRs (MPGPCR) meeting: ASCEPT-MPGPCR Joint Scientific Meeting 2016 "Therapeutic targeting: right place, right time, right effect". 27–30 November 2016, Melbourne Convention and Exhibition Centre, Australia. (**Oral Presentation**)
75. 31st Scientific Meeting of Malaysian Society of Pharmacology & Physiology (MSPP2017) "Advancement in Research for Sustainable Health". 18–19 August, 2017, School of Dental Sciences. Health Campus, USM, Kelantan (**Invited Speaker Presentation**).
76. World Congress on Pharmacology & Chemistry of Natural Compounds (WCPCNC-2017), October 09-11, 2017 Tbilisi, Georgia (Tbilisi State Medical University & Innovinc International) (<http://pharmacologycongress.org/>) (**Invited Speaker Presentation, Symposium Chairperson**)

77. 49th RANZCO Annual Scientific Congress (The 49th Annual Scientific Congress of The Royal Australian and New Zealand College of Ophthalmologists, 28 Oct. – 1 Nov. 2017, Perth, Australia (Poster presentation)¹⁴
78. International Conference on Medical and Health Sciences (ICCHS2017), Faculty of Medicine, UiTM, Sungai Buloh, Selangor, November 1-2, 2017 (<http://icchs2017.weebly.com/>) (organizing committee, poster presentation, session chairperson)
79. V Congress of Russian Pharmacologists "Scientific foundations for research and development of novel drugs", 14-18 May 2018, Yaroslavl, Russian Federation (**Invited Symposium Speaker, Organising Symposium Chairperson**)
80. Symposium and Round Table Discussion on "Anti-viral treatment of global viral infections: Pharmacoepidemiology and Pharmacoconomics" with Researchers from Peoples' Friendship University of Russia, 12th–12th March 2018, Faculty of Medicine, Sg Buloh Campus (**Organizing committee**)
81. Malaysian Association of Education in Medical & Health Sciences Conference 2018 (MAEMHS Conference 2018), 16 & 17 November 2018, UiTM, Faculty of Medicine, Selayang Campus (**Participant**)
82. XV International Magnesium Symposium "Magnesium in Health and Disease", March 20-22, 2019, Bethesda, National Institutes of Health (NIH), Maryland, USA. (**Oral presentation**)
83. 4th Russian Conference on Medicinal Chemistry with international participants (MedChem Russia 2019). June 10-14, 2019, Ural Federal University named after the First President of Russia B.N. Yeltsin, Ekaterinburg, Russia (**Invited Symposium Speaker; Symposium Chairperson**)
84. 29th Annual Scientific Meeting of Malaysian Society of Neurosciences (MSN) "Celebrating 30th Anniversary of the Malaysian Society of Neurosciences". July 4-7, 2019. Grand River View Hotel, Kota Bharu, Kelantan (**Invited Symposium Speaker**)
85. 24th Iranian and 3rd International Congress of Physiology and Pharmacology", 30th October to 1st November, 2019, Shahed University, Tehran, Iran (**Keynote Speaker, Invited Symposium Speaker, Organising Symposium Chairperson,**)

WORKSHOPS AND ADVANCED SUBJECT TRAINING COURSES (ASTC)

1. One-year training language courses of reviewer-interpreter of scientific literature (speciality – biology, language – English), A. M. Gorky Ural State University (USU) – Urál'skiĭ Gosudárstvennyĭ Universitét Imeni A. M. Górkogo, Yekaterinburg, Russia; September, 1992 – May, 1993.
2. Advanced subject training courses (72 hours) "Psychology and pedagogics in High School", Moscow State University of Medicine and Dentistry – Moskovskii Gosudárstvennyĭ Mediko-Stomatologícheskii Universitét, Volgograd; September, 2000 – October 2000.
3. Advanced subject training courses "Effects and administration of medical agents; the organization of drugstores' guidance in conditions of the market", Volgograd Medical Academy (VMA) – Volgográdskaya Meditsínskaya Akadémiya, Volgograd, Russia; February, 2001 – March, 2001.
4. Advanced subject training courses "The management of drugstore business in present conditions", Volgograd State Medical University (VoISMU) – Volgográdskii Gosudárstvennyĭ Meditsínskii Universitet, Volgograd, Russia; May, 2004 – June, 2004.
5. English course "English for Medicine", M.L.S. International College Bournemouth (Management & Language Specialists), Bournemouth, UK, March, 2007.
6. Advanced subject training courses (216 hours) "Supply, economic and marketing activity of drugstore organization", Volgograd State Medical University (VoISMU) – Volgográdskii Gosudárstvennyĭ Meditsínskii Universitet, Volgograd; April, 2007 – May, 2007;
7. Advanced subject training courses (72 hours) "Psychological, pedagogical and organizational methodical aspects of education process in Medical High School", Volgograd State Medical University (VoISMU) – Volgográdskii Gosudárstvennyĭ Meditsínskii Universitet, Volgograd, Russia; February, 2008 – March, 2008.

¹⁴ Attending 49th RANZCO Annual Scientific Congress (The 49th Annual Scientific Congress of The Royal Australian and New Zealand College of Ophthalmologists), Perth, Australia was sponsored by RANZCO 2017 International Development Grant Program

8. 4th annual research workshop 2009 "Research beyond boundaries", July 24 & 25, 2009, Intekma Resort, Shah Alam, Malaysia.
9. 4th Postgraduate workshop, 9th January 2010, UiTM, Faculty of medicine, Selayang Campus, Malaysia
10. Problem-based Learning Workshop: "How to construct a PBL session", 22th January 2010, UiTM, Faculty of medicine, Selayang Campus, Malaysia
11. Workshop: "How to construct multiple choice questions", 9 April 2010, UiTM, Faculty of medicine, Selayang Campus, Malaysia
12. Pre conference workshop: 6th Workshop on "Applications, Techniques & Analysis of Data in Cardiovascular & Neurophysiology Research by ADInstruments", 31 May 2010 – 1 June 2010, Universiti Teknologi MARA, Faculty of Medicine, Shah Alam, Malaysia.
13. Pre-conference workshop "Herbal Medicine Research : Challenges and Prospects", 1 June 2010, Lecture Hall 1, Level 6, Faculty of Medicine, Universiti Teknologi MARA, Shah Alam, Malaysia.
14. Summit on Medical Education, International Academic Advisory Board (IAAB) Meeting 2010, 16th October 2010, Faculty of Medicine, Universiti Teknologi MARA, Selayang Campus.
15. 4th National workshop on the care and management of laboratory animal research: "Doing It Right" 2010, 19-21 October 2010, Equatorial Hotel, Penang, Malaysia.
16. Good Clinical Practise (GCP) Workshop 2010, Centre for Translational Research & Epidemiology (CentRE), 3-5 December 2010, Lecture Hall, Faculty of Medicine, Selayang Campus, Malaysia
17. Research Expedition Series (Taklimat Perdana Geran Penyelidikan FRGS, ERGS dan DANA Kecemerlangan) (6 hours), Institute of Leadership & Quality Management, Universiti Teknologi MARA, 03 March 2011.
18. 2nd Good Laboratory Animal Practice (GLAP) Workshop of the Laboratory Animal Care Unit (LACU), Laboratory Animal Care Unit (LACU), Faculty of Medicine, Universiti Teknologi MARA, Sungai Buloh Campus, 20th & 21st July 2011.
19. Workshop of 'Hawk Eye Slit Lamp' at Laboratory Animal Care Unit (LACU), Laboratory Animal Care Unit (LACU), Faculty of Medicine, Universiti Teknologi MARA, Sungai Buloh Campus, 14th september 2011.
20. 1st Annual IMMB Postgraduate Colloquium, 25-26 November 2011, Carlton Holiday Hotel & Suites, Shah Alam, Malaysia.
21. 2011 Summit on Medical Education, Faculty of Medicine, Selayang Campus, 4th and 5th December 2011.
22. 5th Annual BioPharma Asia Convention 2012 " Drug Discovery World Asia 2012", Terrapinn, Marina Bay Sands, Singapore, March 19-22, 2012
23. iLQAM Workshop "Postgraduate supervision and thesis evaluation" (6 hours). Seminar Room, Level 4, Institute of Leadership & Quality Management, Universiti Teknologi MARA, Shah Alam, March 16, 2012.
24. 2nd MSPP refresher course: Drug cellular mechanisms and dose response curves. Conjointly organized by the Malaysian Society of Pharmacology and Physiology (MSPP) and Faculty of Medicine, UiTM, Lecture Hall 1, Level 6, Tower 1, Science & Technology Complex, Faculty of Medicine, Shah Alam Campus, June 06, 2012 (Role: **organizing committee**)
25. The Annual Curriculum Review Workshop, Faculty of Medicine, Selayang Campus, Lecture Hall & Seminar Rooms 1 & 2, 4th and 5th December 2012.
26. The 2nd Annual IMMB Postgraduate Colloquium (AIPC), Auditorium Faculty of Medicine, Sungai Buloh Campus. 9-10 January 2013.
27. Kursus Asas Pengajaran & Pembelajaran Programme 2013/1 (KAP 2013/1) or Basics In Teaching & Learning Programme 2013/1 For New Lecturers , 29 Jan – 1 Feb 2013, **Speaker**: Topic: "Co-operative & Collaborative Teaching & Learning (L & D)" (Auditorium 3, Level 1, Faculty of Medicine, Sungai Buloh Campus, Jalan Hospital, 47000 Sungai Buloh, Selangor Darul Ehsan), iLQAM
28. Half-day seminar "Awareness on Systematic Review and Meta-Analyses". 6 April 2013 (Sat) Auditorium 1, Level 1, Academic Building, Faculty of Medicine, UiTM Sg Buloh
29. Workshop on "How to Write a Winning Grant Proposal" (30-31 May, 2013; Thursday – Friday; Auditorium 3, Level 1, Faculty of Medicine, Sungai Buloh Campus, Jalan Hospital, 47000 Sungai Buloh, Selangor Darul Ehsan) (Organizing Secretary)

30. Case Base Learning Workshop 2013: Training the Trainers, 28 June 2013, Auditorium 1, Level 1, Sg Buloh Campus, Faculty of Medicine, UiTM.
31. International Academic Advisory Board (IAAB), Visit 2013, 19-20 August 2013, Auditorium 3, Faculty of Medicine, Sundai Buloh Campus, UiTM.
32. Summit on Medical Education 2013, 22 & 23 August 2013 (Thursday & Friday), Auditorium 1, Academic Building, Faculty of Medicine, UiTM, Sungai Buloh Campus, Lalan Hospital, 47000 Sungai Buloh, Selangor, Malaysia.
33. Annual Curriculum Review Workshop 2014, Auditorium 3, Faculty of Medicine, UiTM, Sg Buloh Campus
34. Workshop on Academic Mentoring , Faculty Meeting Room, Faculty of Medicine, UiTM, Sungai Buloh Campus, UiTM, 4th December 2014
35. Kursus Akademik, Pengajaran dan Pembelajaran (Basics in Teaching & Learning), KAP 2014/1 Basics in Teaching & Learning Programme 2014/1 For New Lecturers , 31 March, 2014 **Speaker:** Topic: Lecture “Co-operative & Collaborative Teaching & Learning (L & D)”, Tuesday, 1 April, 2014
36. UiTM Academic Conference, Shah Alam, Dewan Agung Tuanku Canselor, 10-11 February 2015
37. Workshop “Components and modes of effective pharmacology teaching in clinical years” 27 February 2015, Faculty of Medicine UiTM, Sungai Buloh campus (Role: **organizing committee**)
38. Summit on Medical Education. 27-28th August 2015, Faculty of Medicine UiTM, Sungai Buloh campus. (Role: **organizing committee**)
39. International Advisory Academic Board Visit 2015 – Post Graduate Training (Sesi Petang), 26th August 2015
40. Jemputan Menghadiri Bengkel Semakan Kurikulum Program MSc dan PhD 2015. 8th September 2015, Seminal room MERDU, Sungai Buloh Campus, Faculty of Medicine UiTM, Sungai Buloh, Selangor
41. Kursus Akademik, Pengajaran dan Pembelajaran (Basics in Teaching & Learning), KAP 2015/2 Kursus Asas Pengajaran (KAP) [Basics of Teaching] 2015/2 For New Lecturers , 23– 27 November, 2015 Faculty of Medicine, Universiti Teknologi MARA, Sungai Buloh, Selangor, Malaysia. Topic: Lecture “Co-operative & Collaborative Teaching & Learning (L & D)”, Tuesday, 24 November 2015 (Role: **Invited Speaker**)
42. Co-organising IBRO Workshop and Symposium 2016 W1 Rodent Based, August 8-14, 2016 9t h August 2016, Centre for Neuroscience Research, Faculty of Medicine, Universiti Teknologi MARA, Sungai Buloh, Selangor, Malaysia. (Role: **Speaker**)
43. Kursus Akademik, Pengajaran dan Pembelajaran (Basics in Teaching & Learning), KAP 2016 Kursus Asas Pengajaran (KAP) [Basics of Teaching] 2016 For New Lecturers , 14 – 18 November, 2016; Faculty of Medicine, Universiti Teknologi MARA, Sungai Buloh, Selangor, Malaysia. Topic: “Co-operative & Collaborative Teaching & Learning (L & D)”, Tuesday, 16 November 2016 (Role: **Invited Speaker**)
44. BRIMS Technical Workshop: Animal Care & Behavioral Study, 22 November 2016; Brain Research Institute Monash Sunway, Jeffrey Cheah School of Medicine and Health Sciences (Role: **Invited Speaker**)
45. Seminar for Reviewers and Editors of Biomedical Journals from South East Asia and ASEAN Nations organised by Malaysian Medical Association, Park Royal Hotel, Kuala Lumpur, Malaysia, 25th April 2017 (Role: **Participant**)
46. International Conference on Medical and Health Sciences (ICCHS2017), Faculty of Medicine, UiTM, Sungai Buloh, Selangor, November 1-2, 2017 (<http://icchs2017.weebly.com/>) (National Level, Role: **Organising Committee – Scientific Committee**)
47. Manuscript Writing Workshop organised by Health & Wellbeing CoRe and Journal of Clinical and Health Sciences (JCHS), 3rd-5th October 2017, Faculty of Medicine, UiTM, Sungai Buloh, Selangor (Role: Facilitator, **Organising Committee**)
48. Pre-Conference ICCHS2017 Presentation Skills Workshop, 26th October 2017, Faculty of Medicine, UiTM (Role: **Organising Committee**)
49. Workshop on Methods in Experimental Ophthalmology (organised by NeuRon), 16th-17th November 2017, NeuRon, Academic Building, Faculty of Medicine, Sg Buloh Campus (Role: **Organising Committee**)
50. MSPP Teacher’s Refresher Course, 18 Nov. 2017 Jeffrey Cheah School of Medicine and Health Sciences, Monash University Malaysia (Role: **Participant**)
51. Kursus Akademik, Pengajaran dan Pembelajaran (Basics in Teaching & Learning), KAP 2017 Kursus Asas Pengajaran (KAP) [Basics of Teaching] For New Lecturers 2017 (20-24 November 2017); Faculty of Medicine, Universiti Teknologi MARA, Sungai Buloh, Selangor, Malaysia. Topic: Lecture “Co-operative & Collaborative Teaching & Learning (L & D)”, Wednesday, (22 November 2017) (Role: **Invited Speaker**)

52. International Brain Research Organization (IBRO) – Asia Pacific Regional Committee (APRC) Associate School, IBRO-APRC Associate School of Neuroscience 2018, 24-28th September 2018. Theme talk speaker (26th September 2018) with topic “Modelling Alzheimer’s disease with non-transgenic rat models: Effect of BDNF on amyloid beta induced learning and memory impairment in Sprague Dawley rats”, Faculty of Pharmacy, UiTM, Puncak Alam Campus; Co-organisers and facilitators for workshop “Depression, Pain and Anxiety Models” (26th-27th September 2018), Faculty of Medicine, UiTM, Sungai Buloh Campus, Centre for Neurosciences (NeuRon). (Role: **Theme talk speaker, Co-organisers and Facilitators** for Workshop “Depression, Pain and Anxiety Models”)
53. Seminar on “Basic Requirement in Animal Research – Appropriate Animal Models and Animal Facility”, organised by Prima Nexus and Animal Research and Service Centre, Universiti Sains Malaysia, Kelantan, Malaysia, 20th March 2018, Bilik Tutorial A – Pusat Pengajian Sains Perubatan – Universiti Sains Malaysia – Malaysia (Role: **Guest Speaker**)
54. Workshop on “Good Prescribing Skills” in collaboration with UM (Prof. Dr. Sim Si Mui), 7th February 2018, UiTM, Faculty of Medicine, Sg Buloh Campus (Role: **Member of Organising Committee**)
55. JCHS Publication Workshop organised by Health & Wellbeing CoRe and Journal of Clinical & Health Sciences (JCHS), 10th–12th April 2018, Bilik Seminar, Level 3, MERDU, Academic Building, Faculty of Medicine, UiTM, Sg Buloh Campus (Role: **Speaker, Facilitator, Organising Committee**)
56. Emerging Research Leaders Series (ERLS) Workshop Bengkel Penulisan Jurnal, 17-19 July 2018, UiTM, Shah Alam (Role: Participant)
57. Scientific Writing Workshop 1: Essentials in Research Grant Proposal Writing, 30th July & 1 August 2018, UiTM, Faculty of Medicine, Sungai Buloh Campus, Institute for Pathology, Laboratory and Forensic Medicine (I-PPerForM); Speaker for the Scientific Writing Workshop 1: Essentials in Research Grant Proposal Writing with talk “What do research grant reviewers look for?” (Role: **Speaker**)
58. Presentation Skills Workshop, 25th October 2018, Bilik Seminar, Level 3, MERDU, Academic Building, Faculty of Medicine, UiTM, Sg Buloh Campus (Role: **Speaker, Facilitator, Organising Committee**)
59. The half-day seminar “Surviving The Viva’ Seminar”: Panel for “The viva – examiner’s point of view and candidate’s point of view”. April 10, 2019. Seminar Room 5, Level 4, Academic Building, Faculty of Medicine, Sg Buloh Campus, UiTM, Sg Buloh, Selangor, Malaysia (Role: **Panelists in a Panel Discussion**).
60. “Pengunaan Ubat Secara Selamat” Yang Merupakan Kempen Sejagat oleh Pertubuhan Kesihatan Sedunia (WHO) – Global Campaign: “Medication without Harm”. Panel for January 22, 2019. Auditorium 1, Fakulti Perubatan, UiTM Kampus Sg Buloh, Selangor, Malaysia (Role: **Panelists in a Panel Discussion, Organising Committee**).
61. Presentation Skills Workshop, 10th October 2019, Bilik Seminar, Level 3, MERDU, Academic Building, Faculty of Medicine, UiTM, Sg Buloh Campus (Role: **Speaker, Facilitator, Organising Committee**)