

ФАКУЛТЕТ ФАРМАЦЕУТСКИ
Број захтева: 1839/2/2
Датум: 12.09.2014.год.

Образац 2

СЕНАТУ УНИВЕРЗИТЕТА У БЕОГРАДУ

- ПОСРЕДСТВОМ ВЕЋА НАУЧНИХ ОБЛАСТИ МЕДИЦИНСКИХ НАУКА-

ПРЕДЛОГ ЗА ИЗБОР У ЗВАЊЕ РЕДОВНОГ ПРОФЕСОРА (члан 65. Закона о високом образовању)

I – ПОДАЦИ О КАНДИДАТУ ПРЕДЛОЖЕНОМ ЗА ИЗБОР У ЗВАЊЕ РЕДОВНОГ ПРОФЕСОРА

- Име, средње име и презиме кандидата: Јелена (Војислав) Паројчић
- Ужа научна, односно уметничка област за коју се наставник бира: „Фармацеутска технологија“
- Радни однос са пуним или непуним радним временом пуним
- До овог избора кандидат је био у звању ванредног професора у које је први пут изабран 24.12.2009. за ужу научну област /наставни предмет “Фармацеутска технологија“

II - ОСНОВНИ ПОДАЦИ О ТОКУ ПОСТУПКА ИЗБОРА У ЗВАЊЕ

- Датум истека изборног периода за који је кандидат изабран у звање 24.12.2014.
- Датум и место објављивања конкурса : 28.05.2014. часопис „Послови“ и на сајту Факултета и Универзитета
- Звање за које је расписан конкурс редовни професор

III – ПОДАЦИ О КОМИСИЈИ ЗА ПРИПРЕМУ РЕФЕРАТА И О РЕФЕРАТУ

- Назив органа и датум именовања Комисије Изборно веће 19.06.2014.
- Састав Комисије за припрему реферата:

Име и презиме	Звање	Ужа научна, односно уметничка област	Организација у којој је запослен
1. <u>Др сц. Зорица Ђурић</u>	<u>редовни професор</u>	<u>Фармацеутска технологија</u>	<u>Универзитет у Београду- Фармацеутски факултет</u>
2. <u>Др сц. Марија</u>	<u>редовни</u>	<u>Фармацеутска</u>	<u>Универзитет у</u>

Приморац	<u>професор</u>	<u>технологија</u>	<u>Београду</u> <u>Фармацеутски</u> <u>факултет</u> <u>School of Pharmacy</u> <u>and Pharmaceutical</u> <u>Sciences, Trinity</u> <u>College, University of</u> <u>Dublin, Ireland</u>
3. <u>Др сц. Owen</u> <u>Corrigan</u>	<u>profesor emeritus</u>	<u>farmaceutska</u> <u>tehnologija</u>	

3. Број кандидата пријављених на конкурс: 1 (један)
4. Да ли је било издвојених мишљења чланова комисије: није
5. Датум стављања реферата на увид јавности: 11.07.2014. године -
6. Начин (место) објављивања реферата: на сајту Факултета и у архиви Факултета
7. Приговори нема

**IV – ДАТУМ УТВРЂИВАЊА ПРЕДЛОГА ОД СТРАНЕ ИЗБОРНОГ ВЕЋА
ФАКУЛТЕТА 11.09.2014.**

Потврђујем да је поступак утврђивања предлога за избор кандидата Др сц. Јелене Паројчић у звање редовног професора вођен у свему у складу са одредбама Закона, Статута Универзитета, Статута факултета и Правилника о начину и поступку стицања звања и заснивање радног односа наставника Универзитета у Београду.

ПОТПИС ДЕКАНА ФАКУЛТЕТА

Проф. др Зорица Вујић

Прилози:

1. Одлука изборног већа факултета о утврђивању предлога за избор у звање;
2. Реферат Комисије о пријављеним кандидатима за избор у звање;
3. Сажетак реферата комисије о пријављеним кандидатима за избор у звање;
4. Доказ о непостојању правоснажне пресуде о околностима из чл.62.ст.4. Закона
5. Други прилози релевантни за одлучивање (мишљење матичног факултета, приговори и слично).

Напомена: сви прилози, осим под бр. 4. достављају и у електронској форми.

UNIVERZITET U BEOGRADU
FARMACEUTSKI FAKULTET
01 Broj: 1839/1
12.09.2014.
B e o g r a d

Na osnovu člana 64. Zakona o visokom obrazovanju Republike Srbije i člana 128. Statuta Farmaceutskog fakulteta u Beogradu, Izorno veće Farmaceutskog fakulteta na sednici održanoj 11.09. 2014. godine, donelo je

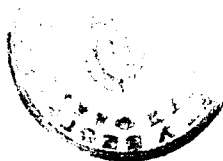
ODLUKU

UTVRĐUJE SE PREDLOG za izbor dr Jelene Parojčić u zvanje redovnog profesora za užu naučnu oblast “ Farmaceutska tehnologija ”, Farmaceutskog fakulteta u Beogradu.

Predlog Odluke o izboru kandidata prosleđuje se nadležnom organu Univerziteta u Beogradu, radi donošenja konačne odluke.

Odluku dostaviti: Nadležnom organu Univerziteta u Beogradu, dekanu, kandidatu, sekretaru, Odseku za pravne i opšte poslove, poslovnom sekretaru i arhivi Fakulteta

DEKAN FAKULTETA
Prof. dr Zorica Vujić



A handwritten signature in black ink, appearing to read 'Zorica Vujić', written over the printed name of the Dean.

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II -

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2)

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2009. .

COMMITTEE REPORT SUMMARY

I – THE CALL

Institution: **Faculty of Pharmacy University of Belgrade**

Scientific field: **Pharmaceutical Technology**

Number of positions offered: **one (1)**

Number of applicants: **one (1)**

Name of the applicant: **Jelena Paroj i**

II – THE APPLICANT

1) BIOGRAPHICAL DATA

- Name and surname: Jelena V Paroj i
- Date and place of birth: 20.11.1968., Belgrade
- Current employment: Department of Pharmaceutical Technology, Faculty of Pharmacy, University of Belgrade
- Current position: Associate Professor
- Scientific field: Pharmaceutical Technology

2) EDUCATION

Undergraduate degree:

- Institution: Faculty of Pharmacy, University of Belgrade
- Place and date: Belgrade, 1992

Master of Science:

- Institution: Faculty of Pharmacy, University of Belgrade
- Place and date: Belgrade, 1996
- Scientific field: Pharmaceutical Technology

PhD:

- Institution: Faculty of Pharmacy, University of Belgrade
- Place and date: Belgrade, 2004
- Scientific field: Pharmaceutical Technology
- Thesis: Biopharmaceutical characterisation of paracetamol hydrophilic matrix tablets
- Scientific field: Pharmaceutical Technology

Previous appointments:

- Teaching assistant 1994; Assistant 1997; Assistant Professor 2004; Associate Professor 2009.

3)

:		:		:	
- 14		-	-	-	3
	- M21	3	1	4	5
	- M22	-	-	-	1
	- M23	6	-	9	9
	- M33	16	-	24	17
	-M34	3	3	25	15
M	-M42	1	-	-	-
	- M53	6	1	12	4
M62	-	2	2	-	1
M64	-	4	-	18	14
Te	- M84	-	-	-	1
	,	1	1	-	-

Name: Jelena Paroj i	Position: Professor		Scientific field: Pharmaceutical technology	
Scientific publications	<i>Number of publications in which is the sole or first author</i>		<i>Number of publications in which is not the sole or first author</i>	
	<i>Before the appointment as associate professor</i>	<i>After the appointment as associate professor</i>	<i>Before the appointment as associate professor</i>	<i>After the appointment as associate professor</i>
<i>Book chapters and monographs – M14</i>	-	-	-	3
<i>Paper in the top international scientific journal - M21</i>	3	1	4	5
<i>Paper in the leading international scientific journal - M22</i>	-	-	-	1
<i>Paper in the international scientific journal - M23</i>	6	-	9	9
<i>Presentation at international meetings published in extenso - M33</i>	16	-	24	17
<i>Presentation at international meetings published as abstract – M34</i>	3	3	25	15
<i>National monograph - M42</i>	1	-	-	-
<i>Paper in the scientific journal - M50</i>	6	1	12	4
<i>Invited lecture at national meetings – M62</i>	2	2	-	1
<i>Presentation at national meetings published as abstract – M64</i>	4	-	18	14
<i>Technical improvement - M84</i>	-	-	-	1
<i>Professional publications (textbook, handbook etc)</i>	1	1	-	-

4)
ASSESSMENT OF THE SCIENTIFIC RESULTS

- in vitro – in vivo
- (1996-2000);
 - (2002-2004);
 - (2005-2008);
 - *in vitro* i *in silico*
2 3 (2008-2010), ;
 - (2010-2015).
- 2012-2013. ,
“”O , K
 - PQPharm 2010-2013. , Tempus,
(734.000 EUR).
 - 2013-2014. ,
” “ se,
 - 2013-2015. ,
LIAT-Ph (*Linking Industry and
Academia in Teaching Pharmaceutical Development and Manufacture*),
Lifelong Learning

- *Formulation design and development of solid dosage forms with different drug release characteristics (2010-2015).*

International projects (after the appointment as associate professor)

- *2012-2013 Project coordinator of the project entitled “Optimization of fluidized bed melt granulation” realized in collaboration with the Chair of pharmaceutical technology, Faculty of Pharmacy, University of Ljubljana funded through the program of bilateral cooperation with Slovenia (project no 651-03-1251/2012-09/43).*
- *2010-2013 Project coordinator of the project entitled “Postgraduate qualification in pharmacy: the way forward (PQPharm)” funded by EACEA through the Tempus program (project budget 734.000 EUR).*
- *2013-2014 Senior researcher on the project entitled “Application of machine learning in the design space development for solid dosage form design” realized in collaboration with the Department of Pharmaceutical Technology, University of Dusseldorf, funded through the program of bilateral cooperation with Germany.*
- *2013-2015 Project coordinator of the University of Belgrade project team on the project entitled “Linking Industry and Academia in Teaching Pharmaceutical Development and Manufacture (LIAT-Ph)” funded by EACEA through the Lifelong Learning Program.*

The results of the research performed through the projects listed above have been published in a number of papers and presentations at the national and international meetings. They provide significant contribution to the scientific field of pharmaceutical technology and pharmacy teaching at the Faculty of Pharmacy, University of Belgrade.

Jelena Paroj i has published 61 paper in the peer-reviewed journals (21 since the appointment as associate professor), of which 13 in the top international scientific journals (6 since the appointment as associate professor); 1 in the leading international scientific journal, 24 in the international scientific journals (9 since the appointment as associate professor) and 23 papers in the scientific journals (5 since the appointment as associate professor). Since the appointment as associate professor, Jelena Paroj i published 3 chapters in the international monographs and one technical improvement verified by the Ministry of education, science and technological development. She has presented a total of 144 oral and poster presentations at the national and international meetings (of which 52 since the appointment as associate professor).

The evaluation of published papers and presentations indicate that Jelena Paroj i 's research interest is directed towards several areas of pharmaceutical technology, mainly, solid dosage form development and biopharmaceutical drug characterization.

The majority of publications are devoted to the development and evaluation of in vitro and in silico tools in biopharmaceutical drug characterization aimed at the investigation of physicochemical drug interactions, bioperformance dissolution method development and biowaiver justification. Complementary use of in vitro and in silico tools is expected to provide accurate prediction of dosage form bioperformance and necessary justification for biowaiver in regulatory approval.

5)

/ASSESSMENT OF THE RESULTS RELATED TO YOUNG RESEARCHERS AND FACULTY DEVELOPMENT

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12

Jelena Paroj i has supervised 47 BPharm and MPharm dissertations (30 since she was appointed associate professor); 34 postgraduate diploma in Industrial pharmacy dissertations (29 since she was appointed associate professor); one dissertation within the postgraduate specialization in Pharmaceutical technology programme (after she was appointed associate professor) and 6 PhD thesis (5 after she was appointed associate professor). She was a committee member for 71 postgraduate diploma dissertations in Industrial pharmacy and Pharmacoeconomics and pharmaceutical legislation, as well as one PhD thesis. She has been supervisor for 12 student research projects conducted through the Centre for undergraduate student research, Faculty of Pharmacy.

6)

/ASSESSMENT OF TEACHING

ACTIVITIES

II,
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2012. 2013. 4,75.

Jelena Paroj i is engaged in the design and delivery of undergraduate and postgraduate courses in pharmacy, including the integrated MPharm programme, postgraduate specialization courses in Pharmaceutical Technology and Industrial Pharmacy and postgraduate doctoral studies in Pharmaceutical Technology. The average mark obtained from the students' evaluation of teaching in the previous period was 4.75.

7)

/ASSESSMENT OF THE CONTRIBUTION RELATED TO THE DEVELOPMENT OF PHARMACY EDUCATION AND ACADEMIC SERVICE

II,

2009-2012.

. 2009.
(Postgraduate Certificate
in Medical Education (PGCertMedEd)), Centre for Medical Education, University of Dundee,
2014.
(Teaching Certificate in Pharmacy Education, School of Pharmacy,
University of Washington).

Jelena Paroj i is engaged in the design and delivery of undergraduate and postgraduate courses in pharmacy, including the integrated MPharm programme, postgraduate specialization courses in Pharmaceutical Technology and Industrial Pharmacy and postgraduate doctoral studies in Pharmaceutical Technology. Jelena Paroj i is the author of one monograph, co-author of the handbook for practicals in Pharmaceutical Technology and co-author of the multimedia handbook for Industrial pharmacy course. In the period 2009-2012, Jelena Paroj i acted as Vice Dean of Research and International Cooperation at the Faculty of Pharmacy, University of Belgrade; She is currently Chair of the Curriculum Committee at the Faculty of Pharmacy, University of Belgrade; She is appointed by the Ministry of Health as expert for the external audit of the quality assurance in pharmacy practice; She serves as external expert of the Medicines and Medical Devices Agency of Serbia (since 2007).

Jelena Paroj i has been involved in the educational research related to pharmacy education, professional competency development and evaluation, use of ICT in education and faculty development. In 2009, Jelena Paroj i completed the postgraduate course in Medical Education from the Centre for Medical Education, University of Dundee, United Kingdom (Postgraduate Certificate in Medical Education (PGCertMedEd) and in 2014 she completed the course in Pharmacy Education at the School of Pharmacy, University of Washington (Teaching Certificate in Pharmacy Education, TCPE).

CONCLUSION AND RECOMMENDATION

*Based on the documentation submitted, it is our view that Jelena Paroj i 's results and activities contribute teaching and research in the field of pharmaceutical technology at the Faculty of Pharmacy, University of Belgrade. In accordance with the Law on higher education and the Statute of the Faculty of Pharmacy, members of the Committee recommend to the Council of the Faculty of Pharmacy to elect **Jelena Paroj i , PhD to the full professor in Pharmaceutical Technology** and forward the relevant application to the University of Belgrade Academic Council of Medical Sciences for final approval.*

30.06.2014.

/Committee Members

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Prof Owen I Corrigan
*School of Pharmacy and Pharmaceutical Sciences,
Trinity College, University of Dublin*

IZBORNOM VEĆU FARMACEUTSKOG FAKULTETA UNIVERZITETA U BEOGRADU
ACADEMIC COUNCIL OF THE FACULTY OF PHARMACY, UNIVERSITY OF BELGRADE

Na osnovu Odluke Izbornog veća Farmaceutskog fakulteta Univerziteta u Beogradu br. 1023/2 od 19.06.2014. godine, imenovani smo u Komisiju za pisanje izveštaja o prijavljenim kandidatima po raspisanom konkursu za izbor jednog redovnog profesora za užu naučnu oblast Farmaceutska tehnologija/ *By the Decision no 1023/2 of the Academic Council of the Faculty of Pharmacy, University of Belgrade dated June 19th, 2014, the following Committee has been nominated to prepare the report on the applicants for the position of a full professor in the scientific field of Pharmaceutical Technology.*

Na konkurs objavljen u listu „Poslovi” od 28.05.2014. godine javio se jedan kandidat, dr sc. Jelena Parojčić, vanredni profesor na Katedri za farmaceutsku tehnologiju i kozmetologiju/ *Following the call for a post of full professor published in the „Poslovi” bulletin on May, 28th 2014, one application has been received, from Jelena Parojčić, PhD, appointed associate professor in the Department of Pharmaceutical Technology and Cosmetology.*

Komisija u sastavu/*The nominated Committee members:*

1. Dr sc. Zorica Djurić, redovni profesor
Farmaceutski fakultet, Univerzitet u Beogradu/*Faculty of Pharmacy, University of Belgrade*
2. Dr sc. Marija Primorac, redovni profesor
Farmaceutski fakultet, Univerzitet u Beogradu/*Faculty of Pharmacy, University of Belgrade*
3. Prof. Owen Corrigan, professor emeritus
School of Pharmacy and Pharmaceutical Sciences, Trinity College, University of Dublin, Ireland

pregledala je materijal koji je kandidat priložio i Izbornom veću Farmaceutskog fakulteta podnosi sledeći/*evaluated the application submitted and present to the Academic Council of the Faculty of Pharmacy the following*

IZVEŠTAJ/REPORT

Na raspisani konkurs za izbor jednog redovnog profesora za užu naučnu oblast Farmaceutska tehnologija, objavljenom u listu “Poslovi” od 28.05.2014. godine, prijavio se jedan kandidat/*Following the call for application for a full professor position in the scientific field of Pharmaceutical Technology published in the „Poslovi” bulletin on May, 28th 2014, one application has been received:*

dr sc. Jelena Parojčić, vanredni profesor na Katedri za farmaceutsku tehnologiju i kozmetologiju Farmaceutskog fakulteta Univerziteta u Beogradu/*associate professor in the Department of Pharmaceutical Technology and Cosmetology, Faculty of Pharmacy, University of Belgrade.*

Na osnovu priložene dokumentacije, ustanovljeno je da kandidat ispunjava opšte uslove konkursa, te u nastavku podnosimo detaljan izveštaj za kandidata/*Based on the application submitted, it has been concluded that general requirements has been met and below we present the detailed report on the applicant.*

U prilogu Izveštaja je odgovarajući Sažetak/*The relevant Summary is attached.*

1. BIOGRAFSKI PODACI/BIOGRAPHICAL DATA

Dr sc. Jelena Parojčić rođena je 20.11.1968. godine u Beogradu, gde je završila osnovnu i srednju školu (Peta beogradska gimnazija). Farmaceutski fakultet u Beogradu upisala je školske 1987/88. godine. Diplomirala je 27.02.1992. godine sa prosečnom ocenom 9.41 i ocenom 10 na diplomskom ispitu. Obavezan farmaceutski pripravnički staž obavila je u bolničkoj apoteci KBC Zvezdara u Beogradu, nakon čega je položila stručni ispit.

Školske 1992/93. godine upisala je poslediplomske studije iz farmaceutske tehnologije kao stipendista Republičke fondacije za razvoj naučnog i umetničkog podmlatka. Magistarski rad pod nazivom: *Uparedna farmaceutsko – tehnološka ispitivanja preparata sa paracetamolom i mogućnost uspostavljanja in vitro – in vivo korelacije*, odbranila je 1996. godine. Dobitnik je nagrade ICN Galenika za najbolje odbranjenu magistarsku tezu za 1996. godinu.

Doktorsku disertaciju pod nazivom: *Biofarmaceutska karakterizacija hidrofилnih matriks tableta sa usporenim oslobađanjem paracetamola*, odbranila je na Farmaceutskom fakultetu u Beogradu 12.03.2004. godine (rad je nagrađen godišnjom nagradom KRKA, Novo mesto, Slovenija). 2005. godine završila je poslediplomske specijalističke studije iz farmaceutske tehnologije na Farmaceutskom fakultetu u Beogradu. U toku 2005. godine boravila je kao stipendista Ministarstva za nauku Republike Srbije na postdoktorskom usavršavanju na *School of Pharmacy and Pharmaceutical Science, University of Dublin, Trinity College*, Irska. U toku 2014. godine, kao stipendista *Fulbright* fondacije boravi u studijskoj poseti na *School of Pharmacy, University of Washington, SAD*. 2009. godine završila je poslediplomske studije iz oblasti medicinskog obrazovanja (*Postgraduate Certificate in Medical Education (PGCertMedEd)*), *Centre for Medical Education, University of Dundee*, Velika Britanija, a 2014. godine kurs poslediplomskog usavršavanja iz oblasti nastave u farmaciji (*Teaching Certificate in Pharmacy Education, School of Pharmacy, University of Washington, SAD*).

Jelena Parojčić was born in Belgrade on November, 20th, 1968, where she completed the elementary and secondary school. She was admitted to the Faculty of Pharmacy, University of Belgrade in the school year 1987/88 and graduated on February, 27th 1992, with the average mark 9.41 (out of 10). Jelena Parojčić completed the professional preregistration training in the Hospital Pharmacy Zvezdara in Belgrade and passed the state exam for pharmacists.

In the school year 1992/93, Jelena Parojčić was enrolled in the postgraduate studies in Pharmaceutical Technology at the Faculty of Pharmacy. She received the scholarship from the National foundation for the development of scientific and artistic youth. In 1996, she completed her MSc dissertation entitled “Comparative evaluation of commercially available paracetamol tablets and in vitro – in vivo correlation development”, which won the annual award of ICN Galenika. In 2004, Jelena Parojčić completed her PhD thesis entitled “Biopharmaceutical characterisation of paracetamol hydrophilic matrix tablets”, which received the annual award of KRKA, Novo mesto, Slovenia. In 2005, she completed the postgraduate specialization in pharmaceutical technology. In 2005, Jelena Parojčić obtained the postdoc grant for a study visit in the School of Pharmacy and Pharmaceutical Sciences, Trinity College, University of Dublin, Ireland. In 2014, she was granted the Fulbright Visiting Scholar Scholarship for a study visit at the School of Pharmacy, University of Washington, USA.

In 2009, Jelena Parojčić completed the postgraduate course in Medical Education from the Centre for Medical Education, University of Dundee, United Kingdom (Postgraduate Certificate in Medical Education (PGCertMedEd) and in 2014 she completed the course in Pharmacy Education at the School of Pharmacy, University of Washington (Teaching Certificate in Pharmacy Education, TCPE).

2. NASTAVNA DELATNOST/TEACHING ACTIVITIES

Dr sc. Jelena Parojčić zaposlena je na Katedri za farmaceutsku tehnologiju i kozmetologiju od 1994. godine, najpre kao asistent-pripravnik, a od 1997. godine kao asistent na predmetima Farmaceutska tehnologija sa biofarmacijom i Osnovi industrijske farmacije i kozmetologije. 2004. godine izabrana je u zvanje docenta za predmete Farmaceutska tehnologija sa biofarmacijom i Osnovi industrijske farmacije i kozmetologije, a od decembra 2009. godine u zvanje vanrednog profesora za predmete Farmaceutska tehnologija II, Industrijska farmacija i Veterinarski lekovi. Učestvovala je u realizaciji nastave na integrisanim akademskim studijama, kao i u osmišljavanju i realizaciji teorijske i praktične nastave na programima specijalističkih studija: (1) Farmaceutska tehnologija, (2) Industrijska farmacija i (3) Puštanje leka u promet i nastave na doktorskim studijama – modul Farmaceutska tehnologija. Autor je jedne monografske publikacije, koautor priručnika za praktičnu nastavu za studente iz predmeta Farmaceutska tehnologija sa biofarmacijom, koautor multimedijalnog priručnika za studente iz predmeta Industrijska farmacija. Jedan je od urednika i prevodioca monografije Gibson M. Preformulacija i formulacija lekova.

Mentor je 47 diplomskih/završnih radova (30 od izbora u zvanje vanrednog profesora), 34 specijalistička rada iz oblasti Industrijske farmacije (29 od izbora u zvanje vanrednog profesora), jednog specijalističkog rada na zdravstvenoj specijalizaciji iz Farmaceutske tehnologije (posle izbora u zvanje vanrednog profesora), kao i 6 doktorskih disertacija (5 posle izbora u zvanje vanrednog profesora). Bila je član komisije za odbranu 71 završnog rada na specijalističkim akademskim studijama Industrijska farmacija i Farmakoeconomija i farmaceutska legislativa; kao i jedne komisije za odbranu doktorske disertacije. Mentor je 12 studentskih istraživačkih radova u okviru aktivnosti Centra za naučnoistraživački rad studenata Farmaceutskog fakulteta.

Jelena Parojčić was appointed as research and teaching assistant in the Department of Pharmaceutical Technology and Cosmetology and has held this position since 1994. In 2004, she was appointed assistant professor for the courses Pharmaceutical Technology and Biopharmacy and Industrial Pharmacy and Cosmetology. In 2009, she was appointed associate professor for Pharmaceutical Technology and Industrial Pharmacy. She is engaged in the design and delivery of undergraduate and postgraduate courses in pharmacy, including the integrated MPharm programme, postgraduate specialization courses in Pharmaceutical Technology and Industrial Pharmacy and postgraduate doctoral studies in Pharmaceutical Technology.

Jelena Parojčić is the author of one national monograph, co-author of the handbook for practicals in Pharmaceutical Technology and co-author of the multimedia handbook for Industrial pharmacy course. She is one of the editors of the Gibson M. Pharmaceutical Preformulation and Formulation in Serbian.

Jelena Parojčić has supervised 47 BPharm and MPharm dissertations (30 since she was appointed associate professor); 34 postgraduate diploma in Industrial pharmacy dissertations (29 since she was appointed associate professor); one dissertation within the postgraduate specialization in Pharmaceutical technology programme (after she was appointed associate professor) and 6 PhD thesis (5 after she was appointed associate professor). She was a committee member for 71 postgraduate diploma dissertations in Industrial pharmacy and Pharmacoeconomics and pharmaceutical legislation, as well as one PhD thesis. She has been supervisor for 12 student research projects conducted through the Center for undergraduate student research, Faculty of Pharmacy.

2.1. Rezultati nastavnog i pedagoškog rada/*The results related to teaching activities*

Elementi za vrednovanje nastavnog i pedagoškog rada/*Criteria for the evaluation of teaching activities*

U okviru studentskog vrednovanja pedagoškog rada nastavnika, Jelena Parojčić je u proteklom periodu ocenjena prosečnom ocenom 4.75.

The average mark obtained from the students' evaluation of teaching in the previous period was 4.75.

2.2. Učestvovanje u realizaciji nastave/*Course design and delivery*

Dr sc. Jelena Parojčić učestvovala je u pripremi i realizaciji nastavnog programa na studijskim programima integrisanih akademskih studija Farmacija za predmete:

1. Farmaceutska tehnologija II
2. Industrijska farmacija
3. Veterinarski lekovi (izborni predmet)

Specijalističke akademske studije Industrijska farmacija

1. Istraživanje i razvoj u farmaceutskoj industriji
2. Industrijska proizvodnja lekova
3. Registracija lekova

Specijalističke akademske studije Puštanje leka u promet

1. Formulacija lekova
2. Proizvodnja lekova
3. Veterinarski lekovi

Doktorske akademske studije modul Farmaceutska tehnologija

1. Preformulaciona i formulaciona istraživanja i razvoj
2. Teorijski aspekti čvrstih farmaceutskih oblika
3. Metodologije u biofarmaceutskoj karakterizaciji lekova

Jelena Parojčić is actively involved in the design and delivery of the following courses:

Integrated MPharm study programme

1. *Pharmaceutical technology II*
2. *Industrial pharmacy*
3. *Veterinary medicines (elective course)*

Postgraduate diploma in Industrial pharmacy

1. *Research and development in pharmaceutical industry*
2. *Drug manufacture*
3. *Drug regulatory affairs*

Postgraduate diploma for Qualified person

1. *Drug formulation*
2. *Drug manufacture*
3. *Veterinary medicines (elective course)*

PhD in Pharmaceutical technology

1. *Pharmaceutical preformulation and formulation*
2. *Solid dosage form design and delivery*
3. *Methodologies in biopharmaceutical drug characterisation*

2.3. Koautor priručnika/Co-author of student handbooks

Pre izbora u zvanje vanrednog profesora/Before the appointment as associate professor

1. **Parojčić Jelena**, Ibrić Svetlana, Đurić Zorica, Farmaceutska tehnologija sa biofarmacijom (Biofarmacija-Tablete-Kapsule), priručnik za praktičnu nastavu, Konstisi, Beograd, 2006

***Parojčić Jelena**, Ibrić Svetlana, Đurić Zorica, Pharmaceutical technology and biopharmacy (Biopharmacy-Tablets-Capsules), handbook for laboratory classes, Konstisi, Beograd, 2006*

Posle izbora u zvanje vanrednog profesora/ After the appointment as associate professor

2. **Parojčić J**, Ibrić S, Đuriš J, Aleksić I, Čalija B. Odabrane farmaceutsko-tehnološke operacije. Multimedijalni priručnik. Beograd: Univerzitet u Beogradu - Farmaceutski fakultet; 2013. (recenzirana multimedijalna publikacija), potvrda prihvatanja pozitivne recenzije i odobravanja publikacije od strane Nastavno-naučnog veća Farmaceutskog fakulteta Univerziteta u Beogradu je priložena.

***Parojčić J**, Ibrić S, Đuriš J, Aleksić I, Čalija B. Selected unit operations. Multimedia handbook. Belgrade, University of Belgrade – Faculty of Pharmacy, 2013 (peer reviewed multimedia publication); review and approval from the Council of the Faculty of Pharmacy, University of Belgrade, provided with the application*

3. Uređivanje i prevod izvornog teksta u obliku monografije:

Gibson M. Preformulacija i formulacija lekova. Drugo izdanje. Ibrić S, **Parojčić J**, urednice izdanja na srpskom jeziku. Univerzitet u Beogradu-Farmaceutski fakultet; Beograd, 2012.

Monograph translation and editing:

*Gibson M. Pharmaceutical preformulation and formulation. Second edition. Ibrić S, **Parojčić J**, editors of the edition in Serbian. University of Belgrade – Faculty of Pharmacy, Belgrade: 2012.*

2.4. Mentor odbranjenih završnih radova integrisanih akademskih studija od izbora u zvanje vanrednog profesora – 30 (ukupno 47)

Supervisor of the BPharm/MPharm student dissertations since the appointment as associate professor – 30 (total 47)

2.5. Mentor odbranjenih doktorskih disertacija od izbora u zvanje vanrednog profesora – 5 (ukupno 6)/*Supervisor of the PhD thesis since the appointment as associate professor – 5 (total 6):*

1. Irena Homšek, Biofarmaceutska karakterizacija preparata sa karbamazepinom: tablete sa modifikovanim vs. tablete sa trenutnim oslobađanjem lekovite supstance, 29.09.2008.
2. Ivan Kovačević, Primena *in silico* apsorpcionih modela u biofarmaceutskoj karakterizaciji lekova, 29. 11. 2010.

3. Sandra Grbić, Razvoj biorelevantnog medijuma za ispitivanje brzine rastvaranja slabo rastvorljivih lekovitih supstanci, 24.11.2011.
4. Ivana Kocić, Biofarmaceutska karakterizacija tableta sa trenutnim oslobađanjem levotiroksin-natrijuma, 30.06.2013
5. Ivana Aleksić, Uticaj faktora formulacije i procesnih parametara na karakteristike granulata dobijenih postupkom topljenja u uređaju tipa fluidizirajućeg sistema, 17.10.2013.
6. Aleksandra Stojković, Biofarmaceutska karakterizacija interakcije ciprofloksacina i jona metala, 20.02.2014.

2.6. Mentor odbranjenog završnog rada specijalističkih studija za potrebe zdravstva – 1 rad od izbora u zvanje vanrednog profesora

Mentor specijalističkih radova na akademskoj specijalizaciji Industrijska farmacije od izbora u zvanje vanrednog profesora – 29 (ukupno 34)

Supervisor of the postgraduate specialisation thesis in Pharmaceutical technology - 1

Supervisor of postgraduate diploma dissertations in Industrial pharmacy since the appointment as associate professor – 29 (total 34).

2.7. Član komisije za odbranu doktorske disertacije od izbora u zvanje vanrednog profesora – 1/Committee member for PhD thesis defence – 1:

Nemanja Kolašinac, Karakterizacija binarnih čvrstih disperzija desloratadina izrađenih metodom topljenja i sprej oblaganja, 30.09.2013.

2.8. Član komisije za odbranu 54 specijalistička rada na akademskim specijalizacijama od izbora u zvanje vanrednog profesora (ukupno 71)/Committee member for 54 postgraduate diploma dissertation defences since the appointment as associate professor (total 71).

2.9. Ostalo/Other

Rukovodilac više projekata pri Studentskom naučno-istraživačkom centru Farmaceutskog fakulteta od 2009-2013 godine.

Supervisor of 12 student research projects within the Centre for undergraduate student research, Faculty of Pharmacy.

Pregled vrednovanja nastavnog i pedagoškog rada (Pravilnik o bližim uslovima za izbor u zvanje nastavnika na Farmaceutskom fakultetu, član 5), od izbora u zvanje vanrednog profesora/Summary evaluation of teaching activities in line with the Regulation on the conditions for promotion of teachers at the Faculty of Pharmacy, article 5).

Naziv aktivnosti/Activity	Bodovi/Points
Zbirna ocena nastavne aktivnosti dobijena na studentskoj anketi/ <i>Mark obtained from the students' evaluation of teaching</i>	5
<p>Učešće u realizaciji nastave (integrisane akademske studije/specijalističke i doktorske studije) na predmetu za koji je kandidat dopunio nastavni program (2-4 boda) ili u potpunosti pripremio nastavni program (3-6 bodova)/<i>Course design and delivery (update of existing courses 2-4 points; new course development 3-6 points):</i></p> <p>Integrisane akademske studije Farmacija/<i>Integrated MPharm study programme</i></p> <ol style="list-style-type: none"> 1. Farmaceutska tehnologija II/<i>Pharmaceutical Technology II</i> (2 boda/2 points) 2. Industrijska farmacija/<i>Industrial pharmacy</i> (4 boda/4 points) 3. Veterinarski lekovi (izborni predmet)/<i>Veterinary medicines (elective course)</i> (4 boda/4 points) <p>Specijalističke akademske studije Industrijska farmacija/<i>Postgraduate diploma in Industrial pharmacy</i></p> <ol style="list-style-type: none"> 1. Istraživanje i razvoj u farmaceutskoj industriji/ <i>Research and development in pharmaceutical industry</i> (4 boda/4 points) 2. Industrijska proizvodnja lekova/<i>Drug manufacture</i> (2 boda/2 points) 3. Registracija lekova/<i>Drug regulatory affairs</i> (2 boda/2 points) <p>Specijalističke akademske studije Puštanje leka u promet/ <i>Postgraduate diploma for Qualified person</i></p> <ol style="list-style-type: none"> 1. Formulacija lekova/<i>Drug formulation</i> (4 boda/4 points) 2. Proizvodnja lekova/<i>Drug Manufacture</i> (2 boda/2 points) 3. Veterinarski lekovi/<i>Veterinary medicines</i> (4 boda/4 points) <p>Doktorske akademske studije modul Farmaceutska tehnologija/ <i>PhD in Pharmaceutical technology</i></p> <ol style="list-style-type: none"> 1. Preformulaciona i formulaciona istraživanja i razvoj/<i>Pharmaceutical preformulation and formulation</i> (4 boda/4 points) 2. Teorijski aspekti čvrstih farmaceutskih oblika/<i>Solid dosage form design and delivery</i> (4 boda/4 points) 4. Metodologije u biofarmaceutskoj karakterizaciji lekova/<i>Methodologies in biopharmaceutical drug characterisation</i> (4 boda/4 points) 	40
<p>Autor multimedijalnog priručnika Parojčić J, Ibrić S , Đuriš J, Aleksić I, Čalija B. Odabrane farmaceutsko-tehnološke operacije. Multimedijalni priručnik. Beograd: Univerzitet u Beogradu- Farmaceutski fakultet; 2013.</p> <p><i>Author of the multimedia handbook Parojčić J, Ibrić S, Đuriš J, Aleksić I, Čalija B. Selected unit operations. Multimedia handbook. Belgrade, University of Belgrade – Faculty of Pharmacy, 2013</i></p>	15
<p>Prevod izvornog teksta u obliku monografije Gibson M. Preformulacija i formulacija lekova. Drugo izdanje. Ibrić S, Parojčić J, urednice izdanja na srpskom jeziku. Beograd: Univerzitet u Beogradu- Farmaceutski fakultet; 2012.</p> <p><i>Monograph translation and editing Gibson M. Pharmaceutical preformulation and formulation. Second edition. Ibrić S, Parojčić J, editors of the edition in Serbian. University of Belgrade – Faculty of Pharmacy, Belgrade: 2012.</i></p>	10
Mentor odbranjenih završnih radova integrisanih akademskih studija <i>Supervisor of the BPharm and MPharm dissertations (0,5)</i>	30 x 0,5 = 15
Mentor odbranjenih specijalističkih radova na zdravstvenoj specijalizaciji iz farmaceutske tehnologije/ <i>Supervisor of the postgraduate specialisation thesis in Pharm technology (3)</i>	1 x 3 = 3
Mentor odbranjenih specijalističkih radova na akademskoj specijalizaciji iz Industrijske farmacije/ <i>Supervisor of postgraduate diploma dissertations in Industrial pharmacy (3)</i>	29 x 3 = 87
Član komisije za odbranu specijalističkih radova na akademskim specijalizacijama/ <i>Committee member for postgraduate diploma dissertation defence (1)</i>	54
Mentor odbranjene doktorske disertacije/ <i>Supervisor of PhD thesis (10)</i>	5 x 10 = 50
Član komisije za odbranu doktorske disertacije/ <i>Committee member for PhD thesis defence (2)</i>	1 x 2 = 2
Ostalo: Aktivnosti u okviru Centra za naučnoistraživački rad studenata Farmaceutskog fakulteta/ <i>Other: Supervising student research project through the Centre for undergraduate student research, Faculty of Pharmacy</i>	10
UKUPNO/TOTAL	291

3. AKTIVNOSTI U OKVIRU AKADEMSKE I ŠIRE ZAJEDNICE/ACADEMIC SERVICE

Od izbora u zvanje vanrednog profesora/*Since the appointment as associate professor:*

- 2013-2015. Predsednik Komisije za praćenje i unapređenje kvaliteta nastave na Farmaceutskom fakultetu Univerziteta u Beogradu;
- 2009-2012. Prodekan za nauku i međunarodnu saradnju na Farmaceutskom fakultetu Univerziteta u Beogradu;
- 2011. Predsednik Komisije za pripremu dokumentacije za akreditaciju naučnoistraživačke organizacije – Farmaceutski fakultet Univerziteta u Beogradu
- Član Naučnog veća Galenika ad (od 2012. godine)
- Član Naučnog odbora *5th World Conference on Drug Absorption, Transport and Delivery (WCDATD)*, održanog u Upsali, Švedska, 24-26. juna 2013.
- Član naučnog odbora *10th Central European Symposium on Pharmaceutical Technology* (2014)
- Član naučnog odbora V Kongresa farmaceuta Srbije održanog u Beogradu, 13-16. oktobra 2010.
- Član programskog odbora II Naučnog simpozijuma Farmaceutskog fakulteta *Biološka raspoloživost i biološka ekvivalentnost lekova: novi regulatorni i naučni pristupi*, održanog u Beogradu, 28. septembra 2012. godine
- Organizator i ko-predsedavajući konferencije *Emerging Issues in Pharmacy Education EUFEPS/Tempus PQPharm Networking Event*, Bled, 1. oktobar 2011
- Član Programskog odbora Simpozijuma Biofarm 2011.
- Član radne grupe za pripremu novog studijskog programa specijalističkih studija za kvalifikovanog farmaceuta za puštanje serije leka u promet
- Član programskog saveta Centra za kontinuiranu edukaciju Farmaceutskog fakulteta (2011-2012)
- Član Naučnog saveta Farmaceutskog fakulteta (2010 – 2012)
- Član Stručnog odbora Saveza farmaceutskih udruženja Srbije
- Stručni nadzornik za spoljnu proveru kvaliteta stručnog rada u apotekama imenovana od strane Ministarstva zdravlja Republike Srbije
- Član panela eksperata na kojem je razmatran dokument Globalni okvir kompetencija farmaceuta i usvojena njegova revidirana verzija primenljiva u uslovima sistema zdravstvene zaštite u Srbiji (2010.)
- Član radne grupe Ministarstva zdravlja za polaganje stručnog ispita (2010 – 2012)
- Ekspert Agencije za lekove i medicinska sredstva Srbije (od 2007.)
- Član Saveza farmaceutskih udruženja Srbije, Međunarodnog udruženja za farmaceutsku tehnologiju (APV) i Evropske federacije za farmaceutske nauke (EUFEPS).
- Recenzent projekata tehnološkog razvoja u Ministarstvu za nauku i tehnološki razvoj Republike Srbije.
- Recenzent rukopisa *Kvalitet u farmaciji – od teorije do prakse*, autora Valentine Marinković, Ljiljane Tasić, Gordane Pejović, Sanje Jović, Snežane Večerkov Vukmirović i Vukice Kocić Perišić.
- Recenzent za časopise *Journal of Pharmaceutical Sciences*, *International Journal of Pharmaceutics*, *Journal of Pharmacy and Pharmacology*, *Drug Development and Industrial Pharmacy*, *Die Pharmazie*, *British Journal of Pharmaceutical Research*, *Arhiv za farmaciju i Vojnosanitetski pregled*.

- *2013-2015 Chair of the Curriculum Committee at the Faculty of Pharmacy, University of Belgrade;*
- *2009-2012. Vice Dean of Research and International Cooperation at the Faculty of Pharmacy, University of Belgrade;*
- *2011. Chair of the Committee for Accreditation of the Faculty of Pharmacy - Research Activities;*
- *Member of the Scientific board of Galenika ad (since 2012);*
- *Member of the Scientific Planning Committee of the 5th World Conference on Drug Absorption, Transport and Delivery (WCDATD), held in Uppsala, Sweden, June 24-26th 2013;*
- *Member of the International Scientific Committee of the 10th Central European Symposium on Pharmaceutical Technology (2014);*
- *Member of the Scientific Committee of the V Congress of pharmacists of Serbia, Belgrade October 13-16th 2010;*
- *Member of the Scientific Planning Committee of the 2nd Scientific Symposium of the Faculty of Pharmacy – Drug bioavailability and bioequivalence: new regulatory and scientific approaches, Belgrade, September 28th, 2012;*
- *Co-chair of the Emerging Issues in Pharmacy Education EUFEPS/Tempus PQPharm Networking Event, Bled, October, 1st 2011;*
- *Member of the Scientific Planning Committee of the Biofarm 2011 Symposium;*
- *Member of the working group for the design and accreditation of the postgraduate programme in line with the requirements for qualified person in the pharmaceutical industry;*
- *Member of the Program committee of the Centre for Continuing Education of the Faculty of Pharmacy (2011-2012);*
- *Member of the Scientific council of the Faculty of Pharmacy (2010 – 2012);*
- *Member of the Professional board of the Pharmaceutical Association of Serbia;*
- *Ministry of Health appointed expert for the external audit of the quality assurance in pharmacy practice;*
- *Member of the Expert panel for the implementation of the Global competency framework for services provided by pharmacy workforce in the healthcare in Serbia (2010);*
- *Member of the Ministry of Health working group for the state exam for pharmacists (2010 – 2012);*
- *External expert of the Medicines and Medical Devices Agency of Serbia (since 2007);*
- *Member of the Pharmaceutical Association of Serbia; International Association for Pharmaceutical Technology (APV) and European Federation for Pharmaceutical Sciences (EUFEPS).*
- *Reviewer of the project applications appointed by the Ministry of education, science and technological development, Republic of Serbia;*
- *Reviewer of the monograph Quality in pharmacy – from theory to practice, authors Valentina Marinković, Ljiljana Tasić, Gordana Pejović, Sanja Jović, Snežana Večerkov Vukmirović and Vukica Kocić Perišić.*
- *Reviewer for the scientific journals (Journal of Pharmaceutical Sciences, International Journal of Pharmaceutics, Journal of Pharmacy and Pharmacology, Drug Development and Industrial Pharmacy, Die Pharmazie, British Journal of Pharmaceutical Research, Arhiv za farmaciju and Vojnosanitetski pregled).*

Do izbora u zvanje vanrednog profesora/*Before the appointment as associate professor*

- 2007-2009. Predsednik Komisije za studentsko vrednovanje pedagoškog rada nastavnika i saradnika Farmaceutskog fakulteta;
 - Član Komisije za poslediplomske specijalističke studije;
 - Član Komisije za upis studenata na Farmaceutski fakultet;
 - Predsednik Veća pete godine Farmaceutskog fakulteta;
 - Član Stručnog odbora Farmaceutskog društva Srbije;
 - Predsednik Programskog odbora Simpozijuma Biofarm 2007, član Programskog odbora Simpozijuma Biofarm 2009.;
 - Ekspert Agencije za lekove i medicinska sredstva Srbije (od 2007.)
 - Član Komisije za nacionalnu farmakopeju i magistralne formule, Agencije za lekove i medicinska sredstva Srbije.
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- *2007-2009 Chair of the Committee for student evaluation of teaching at the Faculty of Pharmacy, University of Belgrade;*
 - *Member of the Committee for postgraduate specialization studies;*
 - *Member of the Committee for student admission at the Faculty of Pharmacy, University of Belgrade;*
 - *Chair of the 5th study year council for academic affairs;*
 - *Member of the Professional board of the Pharmaceutical Association of Serbia;*
 - *Chair of the Scientific Planning Committee of the Biofarm 2007 Symposium, member of the Scientific Planning Committee of the Biofarm 2009 Symposium;*
 - *External expert of the Medicines and Medical Devices Agency of Serbia (since 2007);*
 - *Member of the Committee for national pharmacopeia and formulary appointed by the Medicines and Medical Devices Agency of Serbia.*

4. NAUČNOISTRAŽIVAČKA DELATNOST/RESEARCH ACTIVITIES

U okviru naučnoistraživačke aktivnosti, dr sc. Jelena Parojčić je učestvovala u istraživanjima koja se odnose na različite oblasti farmaceutske tehnologije: razvoj i optimizacija formulacije različitih čvrstih farmaceutskih oblika; biofarmaceutska karakterizacija lekova, kao i interakcija lekova uz primenu modela gastrointestinalne simulacije i uspostavljanje *in vitro* – *in vivo* korelacije.

Od izbora u zvanje asistenta, Jelena Parojčić je uključena u istraživački rad kao saradnik ili rukovodilac na naučnim projektima Ministarstva prosvete, nauke i tehnološkog razvoja Republike Srbije. U prethodnom periodu, angažovana je i kao rukovodilac ili saradnik na nekoliko međunarodnih projekata.

U periodu od 1996. godine do sada, Jelena Parojčić je učestvovala na sledećim projektima Ministarstva prosvete, nauke i tehnološkog razvoja:

Do izbora u zvanje vanrednog profesora

- Biofarmaceutska i hemijsko-tehnološka istraživanja lekovitih supstanci i lekovitog bilja (1996-2000);
- Formulacija i razvoj čvrstih farmaceutskih oblika sa različitim brzinama oslobađanja lekovite supstance (2002-2004);
- Razvoj novih tehnologija i proizvoda sa modifikovanim oslobađanjem lekovitih supstanci uz primenu optimizacionih tehnika (2005-2008).

Posle izbora u zvanje vanrednog profesora

- Razvoj i primena *in vitro* i *in silico* metoda u biofarmaceutskoj karakterizaciji lekova BSK grupe 2 i 3 (2008-2010), kao rukovodilac projekta;
- Razvoj tehnologija i proizvoda koji obezbeđuju željeno oslobađanje lekovitih supstanci iz čvrstih farmaceutskih oblika (2010-2015).

Učesće na međunarodnim projektima (posle izbora u zvanje vanrednog profesora)

- U periodu 2012-2013. godina, dr sc. Jelena Parojčić bila je rukovodilac projekta „Optimizacija granulacije topljenjem u uređaju tipa fluidizirajućeg sistema“ koji je, u saradnji sa Katedrom za farmaceutsku tehnologiju Farmaceutskog fakulteta Univerziteta u Ljubljani, realizovan u okviru programa bilateralne saradnje sa Slovenijom (projekat broj 651-03-1251/2012-09/43).
- U periodu 2010-2013. godina, bila je rukovodilac međunarodnog projekta PQPharm koji je, u okviru programa Tempus, finansiran iz sredstava Evropske unije (vrednost projekta 734.000 EUR).
- U periodu 2013-2014. godina, angažovana je kao istraživač na projektu „Primena mašinskog učenja u razvoju prostora za dizajn u razvoju čvrstih farmaceutskih oblika“ koji se, u saradnji sa Katedrom za farmaceutsku tehnologiju Univerziteta u Dizeldorfu, realizuje u okviru programa bilateralne saradnje sa Nemačkom.

- U periodu 2013-2015. godina, angažovana je kao rukovodilac projektnog tima Univerziteta u Beogradu na realizaciji projekta LIAT-Ph (*Linking Industry and Academia in Teaching Pharmaceutical Development and Manufacture*), koji se realizuje u okviru programa *Lifelong Learning* finansiranog od strane Evropske unije.

Kroz realizaciju istraživačkih aktivnosti u okviru navedenih projekata, objavljen je veći broj naučnih radova i saopštenja. Oni predstavljaju značajan doprinos razvoju naučne oblasti farmaceutske tehnologije i nastave na Farmaceutskom fakultetu. Kroz realizaciju međunarodnog projekta PQPharm, u okviru programa Tempus, obezbeđena su i značajna materijalna sredstva za unapređenje nastave i razvoj nastavnih kadrova na Farmaceutskom fakultetu Univerziteta u Beogradu.

Jelena Parojčić has been engaged in the scientific research in different areas of pharmaceutical technology, mainly related to solid dosage form formulation development and optimization; biopharmaceutical drug characterization, including in vitro drug interaction studies, development of gastrointestinal simulation models and in vitro – in vivo correlation.

Since she was appointed research assistant, Jelena Parojčić has been involved in the scientific research as project team member and project coordinator of the scientific projects funded by the Ministry of education, research and technological development of the Republic of Serbia. She was also engaged as project coordinator or project team member in several international projects.

Since 1996, Jelena Parojčić undertook the following projects funded by the Ministry of education, research and technological development of the Republic of Serbia:

Before the appointment as associate professor

- *Biopharmaceutical and technological study of drug substances and herbal drugs (1996-2000);*
- *Solid dosage form design and evaluation (2002-2004);*
- *Development of modified release dosage forms using design of experiments and optimization techniques (2005-2008).*

After the appointment as associate professor

- *Development and application of in vitro and in silico methodology in biopharmaceutical characterization of the selected BCS class 2 and 3 model drugs (2008-2010), project coordinator;*
- *Formulation design and development of solid dosage forms with different drug release characteristics (2010-2015).*

International projects (after the appointment as associate professor)

- *2012-2013 Project coordinator of the project entitled "Optimization of fluidized bed melt granulation" realized in collaboration with the Chair of pharmaceutical technology, Faculty of Pharmacy, University of Ljubljana funded through the program of bilateral cooperation with Slovenia (project no 651-03-1251/2012-09/43).*

- 2010-2013 Project coordinator of the project entitled "Postgraduate qualification in pharmacy: the way forward (PQPharm)" funded by EACEA through the Tempus program (project budget 734.000 EUR).
- 2013-2014 Senior researcher on the project entitled "Application of machine learning in the design space development for solid dosage form design" realized in collaboration with the Department of Pharmaceutical Technology, University of Dusseldorf, funded through the program of bilateral cooperation with Germany.
- 2013-2015 Project coordinator of the University of Belgrade project team on the project entitled "Linking Industry and Academia in Teaching Pharmaceutical Development and Manufacture (LIAT-Ph)" funded by EACEA through the Lifelong Learning Program.

The results of the research performed through the projects listed above have been published in a number of papers and presentations at the national and international meetings. They provide significant contribution to the scientific field of pharmaceutical technology and pharmacy teaching at the Faculty of Pharmacy, University of Belgrade. Tempus project PQPharm provided substantial resources for faculty development and IT educational technology at the Faculty of Pharmacy, University of Belgrade.

Pregled radova i saopštenja objavljenih nakon izbora u zvanje vanrednog profesora

Dr sc Jelena Parojčić objavila je ukupno 61 naučni rad (od izbora u zvanje vanrednog profesora 21), od kojih 13 u vrhunskim međunarodnim časopisima (od izbora u zvanje vanrednog profesora 6), 1 rad u istaknutom međunarodnom časopisu, 24 u međunarodnim časopisima (od izbora u zvanje vanrednog profesora 9) i 23 rada u naučnim časopisima kategorija M50 (od izbora u zvanje vanrednog profesora 5). Posle izbora u zvanje vanrednog profesora objavila je i 3 poglavlja u knjigama međunarodnog značaja i jedno tehničko rešenje verifikovano od strane Ministarstva za prosvetu, nauku i tehnološki razvoj Republike Srbije. Na naučnim i stručnim skupovima u zemlji i inostranstvu, učestvovala je sa 144 predavanja i poster prezentacija (od čega 52 nakon izbora u zvanje vanrednog profesora).

Analiza objavljenih radova ukazuje na to da je istraživački interes Jelene Parojčić usmeren na različite oblasti farmaceutske tehnologije, uglavnom vezano za razvoj čvrstih farmaceutskih oblika doziranja i biofarmaceutsku karakterizaciju lekova.

U prethodnom period je focus istraživanja vezanih za razvoj čvrstih farmaceutskih oblika bio usmeren na razvoj i optimizaciju postupka granulacije topljenjem u uređaju tipa fluidizirajućeg sistema. Odgovarajući rezultati su publikovani u okviru radova 6, 7, 14, 30, 34, 37, 53, 57, 72, 75 i 77. Procena uticaja faktora formulacije i procesnih parametara na karakteristike dobijenih granulata sprovedena je primenom statističkog eksperimentalnog dizajna i veštačkih neuronskih mreža. Primenjene su i analizirane tehnika granulacijem uz raspršivanje vezivnog sredstva, kao i granulacija topljenjem in situ. Pokazano je da granulacija topljenjem u fluidizirajućem sloju predstavlja potencijalno korisnu novu metodu granulacije koja pruža određene prednosti u odnosu na konvencionalne metode granulacije u proizvodnji lekova. Primenom ove metode dobijene su granule pravilnog sfernog oblika, ujednačene veličine i dobrih protočnih svojstava. Uočeno je da koncentracija sredstva za vezivanje predstavlja kritičan faktor koji utiče na raspon veličine dobijenih aglomerata, kao i prinos procesa granulacije kada su imerzija i oblaganje dominantni mehanizmi aglomeracije. Dobijeni rezultati

pokazuju da se različite optimizacione tehnike, uključujući metodu površine odgovora i veštačke neuronske mreže mogu uspešno koristiti za definisanje eksperimentalnog prostora i optimizaciju procesa granulacije topljenjem u uređajima tipa fluidizirajućih sistema.

Najveći broj publikacija posvećen je razvoju i proceni *in vitro* i *in silico* metoda u biofarmaceutskoj karakterizaciji lekova s ciljem ispitivanja fizičko-hemijskih interakcija lekova (8, 11-13, 27, 32, 55, 67, 70), razvoja metoda za ispitivanje brzine rastvaranja aktivne supstance iz preparata koje ukazuju na njegovo ponašanje u organizmu ("*bioperformance dissolution method*") (5, 16, 17, 21, 25, 26, 31, 38-41, 43-45, 49, 50, 54, 58, 61, 65, 66, 69, 71, 74, 76), kao i procenu mogućnosti izostavljanja *in vivo* studija u različitim fazama razvoja lekovitog preparata ("*biowaiver*") (4, 15, 18, 24, 29, 33, 36, 42, 63, 64, 68, 73). *In vitro* ispitivanja interakcije ciprofloksacin hidrohlorida sa jedinjenjima koja sadrže različite jone metala su pokazala da, kao rezultat interakcije, mogu nastati različiti produkti koji dovode do smanjene rastvorljivosti i brzine rastvaranja ciprofloksacina iz tableta. U interakciji sa aluminijumom, nije uočena promena čvrste faze; u prisustvu kalcijum karbonata, nastao je novi hidratni oblik ciprofloksacina; interakcije sa solima gvožđa i cinka dovele su, u prisustvu relativno visokih koncentracija obe komponente, do nastanka helatnih kompleksa niske rastvorljivosti. Uočeno je da se biorelevantni podaci dobijaju primenom uređaja za ispitivanje brzine rastvaranja malih volumena. Obim apsorpcije ciprofloksacina i njegov farmakokinetički profil nakon primene bez i u prisustvu različitih jedinjenja metala bilo je moguće uspešno predvideti primenom *in silico* modela gastrointestinalne simulacije. Primenom metode osetljivosti parametara, pokazano je da je smanjena rastvorljivost kritičan faktor koji utiče na apsorpciju ciprofloksacina.

GastroPlus i Simcyp simulatori gastrointestinalne apsorpcije su primenjeni za razvoj apsorpcionih modela za izabranih model lekovitih supstanci i mehanističko proučavanje faktora koji utiču na oslobađanje lekovite supstance iz preparata i njenu apsorpciju nakon oralne primene. Analiziran je veći broj model supstanci sa različitim biofarmaceutskim svojstvima, uključujući nimesulid, glimepiride, nifedipin, metformin hidrohlorid, ciprofloksacin hidrohlorid i levotiroksin natrijum. Dobijeni rezultati ukazuju da se objedinjeni *in vitro* i *in silico* rezultati mogu uspešno koristiti za predviđanje ponašanja leka u organizmu i, u skladu s tim, za pripremu registracione dokumentacije u prilog zahteva za izostavljanje *in vivo* studija bioekvivalentnosti ("*biowaiver*").

U poslednje vreme, Jelena Parojčić se bavi i istraživanjima vezanim za unapređenje nastave farmacije, razvoj i procenu stručnih kompetencija, primenu informacionih i komunikacionih tehnologija u nastavi i razvoj nastavnih kadrova. Odgovarajuća saopštenja su prezentovana na domaćim i međunarodnim skupovima (28, 46-48, 51, 52, 59, 62).

Review of the papers and presentations published after the appointment as associate professor

Jelena Parojčić has published 61 paper in the peer-reviewed journals (21 since the appointment as associate professor), of which 13 in the top international scientific journals (6 since the appointment as associate professor); 1 in the leading international scientific journal, 24 in the international scientific journals (9 since the appointment as associate professor) and 23 papers in the scientific journals (5 since the appointment as associate professor). Since the appointment as associate professor, Jelena Parojčić published 3 chapters in the international monographs and one technical improvement verified by the Ministry of education, science and technological development. She has presented a total of 144 oral and poster presentations at the national and international meetings (of which 52 since the appointment as associate professor).

The evaluation of published papers and presentations indicate that Jelena Parojčić's research interest is directed towards several areas of pharmaceutical technology, mainly, solid dosage form development and biopharmaceutical drug characterization.

The focus of the research related to solid dosage form development was directed towards the design and optimization of melt granulation in the fluid bed equipment. The relevant results are published in 6, 7, 14, 30, 34, 37, 53, 57, 72, 75 and 77. The effect of a number of formulation factors and process parameters on the characteristics of granulates obtained by fluid bed melt granulation was evaluated using the design of experiments approach and artificial neural networks. Both in situ and spray on granulation techniques have been employed. It has been concluded that fluid bed melt granulation can be employed as a promising technique with numerous advantages over conventional granulation in drug manufacture. Highly spherical agglomerates with uniform size distribution and good flowability were obtained. It was found that binder content can be a critical factor influencing the width of granule size distribution and yield when immersion and layering is the dominant agglomeration mechanism. The results obtained also indicate that both surface response analysis and artificial neural networks can be useful tools in defining the design space and process optimization of fluidized bed melt granulation.

The majority of publications are devoted to the development and evaluation of in vitro and in silico tools in biopharmaceutical drug characterization aimed at the investigation of physicochemical drug interactions (8, 11-13, 27, 32, 55, 67, 70), bioperformance dissolution method development (5, 16, 17, 21, 25, 26, 31, 38-41, 43-45, 49, 50, 54, 58, 61, 65, 66, 69, 71, 74, 76) and biowaiver justification (4, 15, 18, 24, 29, 33, 36, 42, 63, 64, 68, 73). In vitro investigation of ciprofloxacin hydrochloride interactions with metallic compounds revealed that different types of adducts may form and retard ciprofloxacin solubility and tablet dissolution. In the case of aluminium, no phase changes were observed. The solid phase generated in the presence of calcium carbonate was identified as hydrated ciprofloxacin base. Interaction with iron and zinc sulphate resulted with complex formation in the presence of relatively high concentrations of ciprofloxacin hydrochloride and metallic compounds. It was observed that small volume dissolution experiments can be useful for biorelevant dissolution tests. The extent of ciprofloxacin absorption and ciprofloxacin plasma concentration profiles observed following drug administration without and with different metallic compounds containing products was successfully predicted using in silico gastrointestinal simulation. Related Parameter Sensitivity Analysis revealed that reduced drug solubility is critical factor affecting ciprofloxacin absorption. Gastrointestinal simulation softwares GastroPlus and Simcyp were employed in order to establish drug-specific absorption model, as well as a tool for mechanistic evaluation of factors influencing drug release and absorption following oral administration. A number of model drugs exhibiting various biopharmaceutical properties was evaluated including nimesulide, glimepiride, nifedipine, metformin hydrochloride, ciprofloxacin hydrochloride and levothyroxine sodium. Complementary use of in vitro and in silico tools is expected to provide accurate prediction of dosage form bioperformance and necessary justification for biowaiver in regulatory approval.

More recently, Jelena Parojčić has been involved in the educational research related to pharmacy education, professional competency development and evaluation, use of ICT in education and faculty development. It resulted in a number of presentations at the national and international meetings (28, 46-48, 51, 52, 59, 62).

RADOVI PUBLIKOVANI DO IZBORA U ZVANJE VANREDNOG PROFESORA PUBLICATIONS BEFORE THE APPOINTMENT AS ASSOCIATE PROFESSOR

M42 Monografija nacionalnog značaja/*National monograph*

1. **J. Parojčić.** In vitro – in vivo korelacija: osnovna razmatranja i značaj, Zadužbina Andrejević, Beograd, 2005

M21 Radovi u vrhunskim međunarodnim časopisima/*Papers in the top international scientific journals*

2. S. Ibrić, M. Jovanović, Z. Đurić, **J. Parojčić**, Lj. Solomun, *The application of generalized regression neural network (GRNN) in the modeling and optimization of aspirin extended release tablets with Eudragit® RS PO as matrix substance*, J. Control. Rel., 82, 213-222, 2002
3. **Parojčić J**, Ibrić S, Djurić Z, Jovanović M, Corrigan OI. *An investigation into the usefulness of generalized regression neural network analysis in the development of level A in vitro – in vivo correlation*. Eur J Pharm Sci, 30: 264-272, 2007
4. Kovačević I, **Parojčić J**, Homsek I, Tubić-Grozdanis M, Langguth P. *Justification of biowaiver for carbamazepine, a low soluble high permeable compound, in solid dosage forms based on IVIVC and gastrointestinal simulation*. Mol Pharm. 6(1):40-47, 2009
5. Kovačević I, **Parojčić J**, Tubić-Grozdanis M, Langguth P. *An investigation into the importance of “very rapid dissolution” criteria for drug bioequivalence demonstration using gastrointestinal simulation technology*. AAPS Journal, 11(2):381-4, 2009
6. Vasiljević D, **Parojčić J**, Primorac M, Vuleta G. *An investigation into the characteristics and drug release properties of multiple W/O/W emulsion systems containing low concentration of lipophilic polymer emulsifier*. Int J Pharm. 309: 171-177, 2006
7. **Parojčić J**, Vasiljević D, Ibrić S, Đurić Z, *Tablet Disintegration and Drug Dissolution in Viscous Media: Paracetamol IR Tablets*, Int J Pharm, 355 (1-2) 93-99, 2008
8. **Parojčić J**, Corrigan O.I, *Rationale for ibuprofen co-administration with antacids: potential interaction mechanisms affecting drug absorption*, Eur J Pharm Biopharm 69(2):640-647, 2008

M23 Radovi u međunarodnim časopisima/*Papers in the international scientific journals*

9. M. Jovanović, G. Jovičić, Z. Đurić, D. Agbaba, K. Karljiković-Rajić, **J. Radovanović** and L. Nikolić: *Effect of fillers and lubricants on acetylsalicylic acid release kinetics from Eudragit matrix tablets*, Drug Dev Ind Pharm, 23 (6), 595-602 (1997)
10. M. Jovanović, G. Jovičić, Z. Đurić, D. Agbaba, K. Karljiković-Rajić, L. Nikolić, **J. Radovanović**: *The Influence of Eudragit Type on the Dissolution Rate of Acetylsalicylic Acid from Matrix Tablets*, Acta Pharm. Hung., 67, 229-234, 1997
11. **J. Radovanović**, Z. Đurić, M. Jovanović, S. Ibrić and M. Petrović: *An attempt on establishing in vitro - in vivo correlation: case of paracetamol immediate release tablets*, Eur. J. Drug Metab. Pharmacokinet., 23, 33-40, 1998
12. **J. Parojčić**, Z. Đurić, M. Jovanović, S. Ibrić, L. Nikolić, *Influence of pH and agitation intensity on drug dissolution from tablets evaluated by means of factorial design*, Pharm. Ind., 63, 774-779, 2001

13. S.Ibrić, M. Jovanović, Z. Đurić, **J. Parojčić**, S.D. Petrović, Lj. Solomun, B. Stupar, *Artificial neural networks in the modeling and optimization of aspirin extended release tablets with Eudragit L 100 as matrix substance*, AAPS PharmSciTech 4 (1) Article 9, 2003
14. **J. Parojčić**, K. Karljiković-Rajić, Z. Đurić, M.Jovanović, S.Ibrić, *Development of the Second-order Derivative UV Spectrophotometric Method for Direct Determination of Paracetamol in Urine Intended for Biopharmaceutical Characterisation of Drug Products*, Biopharm Drug Dispos. 24: 309-314, 2003
15. **J. Parojčić**, Z. Đurić, M. Jovanović, S. Ibrić, *An investigation into the factors influencing drug release from hydrophilic matrix tablets based on novel carbomer polymers*, Drug Delivery 11 (1), 59-65, 2004
16. **J. Parojčić**, Z. Đurić, M. Jovanović, S. Ibrić, *An investigation into the influence of dissolution media composition on drug release and in vitro – in vivo correlation for paracetamol matrix tablets prepared with novel carbomer polymers*, J Pharm Pharmacol, 56: 735-741, 2004
17. **Parojčić J**, Đurić Z, Jovanović M, Ibrić S, Kilibarda V, Jovanović D, Kovačević I, *Biopharmaceutical characterization of sustained release matrix tablets based on novel carbomer polymers: formulation and in vivo investigation*. Eur J Drug Metabol Pharmacokin, 30(1-2): 99-104, 2005
18. Stanojević M, Kalagasidis-Krušić M, Filipović J, **Parojčić J**, Stupar M. *An investigation into the influence of hydrogel composition on swelling behavior and drug release from poly(acrylamide-co-itaconic acid) hydrogels in various media*. Drug Delivery 13: 1-7, 2006
19. Homšek I, **Parojčić J**, Cvetković N, Popadić D, Djurić Z. *Biopharmaceutical characterization of carbamazepine immediate release tablets: In vitro-in vivo comparison*, ArzneimittelForschung/Drug Research 57(8): 511-516, 2007
20. Ibrić S, Jovanović M, Đurić Z, **Parojčić J**, Solomun L, Lučić B. *Generalized regression neural networks in prediction of drug stability*. J Pharm Pharmacol. 59(5):745-750, 2007
21. Homšek I, **Parojčić J.**, Mitić M., Simić S., Cvetković N., Đurić Z, *Development of a drug release methodology for carbamazepine CR tablets based on bioequivalence evaluation*, JDDST, 18 (2) 139-144, 2008
22. Grbić S, **Parojčić J**, Đurić Z, Ibrić S. *Mathematical modeling of pH-surfactant-mediated solubilization of nimesulide*. Drug Dev Ind Pharm. 2009, (u štampi)
23. Vasiljević D, **Parojčić J**, Primorac M, Vuleta G. *Rheological and droplet size analysis of W/O/W multiple emulsions containing low polymeric emulsifier concentration*, J. Serb. Chem. Soc, 2009; 74 (7): 801-816

M53 Radovi u naučnim časopisima/Papers in the scientific journals

24. L. Nikolić, Z. Đurić, **J. Radovanović**, M. Jovanović: *Effect of air dissolved in dissolution medium on release of acetylsalicylic acid from different types of tablets*, Pharm. Pharmacol. Lett., 5, 170-172, 1995
25. S. Ibrić, M. Jovanović, Z. Đurić, **J. Parojčić**, *Screening of parameters for in vitro drug release from enteric coated diclofenac sodium tablets*, Farmaceutski vestnik, 48, 1997, 338-339
26. S Ibrić, M. Jovanović, Z. Đurić, **J. Parojčić**, *Influence of sodium chloride on the release of diclofenac sodium from enteric-coated tablets*, Pharm. Pharmacol. Lett. 7(4), 181-183, 1997

M52 Radovi objavljeni u časopisu nacionalnog značaja/Papers in the national scientific journal

27. **J. Radovanović**, Z. Đurić, M. Jovanović: *In vitro - in vivo korelacija: osnovni pojmovi i značaj*, Arh. farm., 45 (3-4), 93-106, 1995
28. M. Jovanović, Z. Đurić, **J. Radovanović**: *Uticaj sredstava za raspadanje na antacidne osobine tableta magnezijum-trisilikata*, Arh. farm., 46 (3-4), 163-168, 1996
29. M. Jovanović, G. Jovčić, Z. Đurić, **J. Radovanović**, V. Đorđević: *Polimetakrilat kao matriks za tablete sa produženim oslobađanjem acetilsalicilne kiseline*, Arh. farm. 46 (3-4), 119-126, 1996
30. M. Jovanović, Z. Đurić, **J. Radovanović**, V. Stefanović: *Uticaj sredstva za povećanje viskoziteta na kapacitet neutralizacije suspenzija aluminijum i magnezijum-hidroksida*, Arh. farm. 47 (1-2), 1-6, 1997
31. **J. Radovanović**, Z. Đurić, M. Jovanović, S. Subotić: *Uporedna farmaceutsko-tehnološka ispitivanja tableta sa paracetamolom*, Arh. za farm. 47(1-2), 47-56, 1997
32. **J. Parojčić**, S. Ibrić, M. Jovanović, Z. Đurić: *Lekoviti oblici u terapiji ulkusne bolesti*, Arh. farm. 48 (4) 323-341, 1998
33. I. Homšek, N. Cvetković, Lj. Petrović, **J. Parojčić**: *Ispitivanje uticaja tenzida na brzinu rastvaranja nitrendipina*, Arh. farm., 49 (3-4), 321-328, 1999
34. **J. Parojčić**, Z. Đurić, M. Jovanović, S. Ibrić, *Biofarmaceutski sistem klasifikacije lekova i njegova primena u razvoju farmaceutskih preparata*, Arh. farm. 51, 89-108, 2001
35. M. Jovanović, Z. Đurić, **J. Parojčić**, S. Ibrić, A. Milosavljević, *Lekoviti preparati u terapiji kardiovaskularnih oboljenja: savremeni farmaceutsko - tehnološki aspekt*, Arh. Farm. 53, 405-418, 2003
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37. Ibrić S, **Parojčić J**, Đurić Z, Jovanović M, *Trudnoća i dojenje - mogućnost primene intravaginalnih terapijskih sistema*, Arh. Farm. 56 (3) 240-251, 2006
38. **J. Parojčić**, S. Ibrić, Z. Đurić. *Antidepresivi i anksiolitici: novine u formulaciji tableta*. Arh. Farm. 57: 94-105, 2007
39. **J. Parojčić**, S. Grbić, M. Knežević, S. Krsmanović, S. Ibrić, Z. Đurić, *Uticaj hrane na resorpciju lekova: osnovna razmatranja i mogućnost in vitro simulacije*. Arh. Farm. 57: 149-163, 2007
40. S. Ibrić, M. Knežević, **J. Parojčić**, Z. Đurić, *Primena veštačkih neuronskih mreža u formulaciji farmaceutskih preparata*. Arh. Farm. 57: 399-414, 2007
41. Ibrić S, Parojčić J, Jakšić I, Đurić Z, *Farmaceutsko-tehnološki aspekti savremenih kardiovaskularnih lekova*, Arh farm, 58: (5-6): 432-442, 2008

M33 Saopštenja sa međunarodnih skupova, štampana u celini/Presentations at the international meetings, published in extenso

Usmena saopštenja/Oral presentations

42. **J. Parojčić**, Z. Đurić, M. Jovanović, S. Ibrić, M. Stanojević, *An investigation into the influence of buffer media composition on drug release and in vitro – in vivo correlation for Carbopol 71G matrix tablets*, Farm. Vestn. 54: 355-356, 2003 (5th Central European Symposium on Pharmaceutical Technology and Biotechnology, Ljubljana, Slovenia, 25.-27. 09.2003.)

43. **J. Parojčić**, M. Knežević, S. Ibrić, Z. Đurić, M. Jovanović: An Investigation into Tablet Disintegration and Drug Dissolution in Viscous Media, 33rd Controlled Release Society Meeting and Exhibition, Vienna, Austria 23-26, July, 2006

Poster prezentacije/Poster presentations

44. **J. Radovanović**, Z. Đurić, M. Jovanović, S. Ibrić and L. Nikolić: *The influence of pH and agitation intensity on drug release from tablets evaluated by means of factorial design*, 16th Pharmaceutical Technology Conference, 15-17 April, Athens, Greece, 1997
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46. **J. Parojčić**, Z. Đurić, M. Jovanović, S. Ibrić, L. Nikolić, Lj. Đukić: *Screening of formulation variables influencing the rate of drug release from Carbopol 974P matrix tablets*, 2nd World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology, Paris, 25-28 May, 1998
47. S. Ibrić, M. Jovanović, Z. Đurić, **J. Parojčić**, M. Stupar: *Investigation on in vitro drug release of diclofenac sodium from enteric-coated tablets*, 2nd World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology, Paris, 25-28 May, 1998
48. **J. Parojčić**, Z. Đurić, M. Jovanović, S. Ibrić, N. Cvetković: *An investigation into the drug release mechanism from carbomer matrix tablets*, Eur. J. Pharm. Sci., 6, Suppl. 1, S70, P280, 1998 (Fourth European Congress of Pharmaceutical Sciences, Milan, Italy, September 11-13, 1998)
49. Homšek, N. Cvetković, **J. Parojčić**, *The influence of surfactant on nimodipine dissolution rate*, 18th Pharmaceutical Technology Conference and Exhibition, Utreht, Holland, 13-15. April, 1999
50. **J. Parojčić**, Z. Đurić, M. Jovanović, S. Ibrić and M. Stupar: *An investigation into the mechanical and drug release properties of paracetamol hydrophilic matrix tablets*, 19th Pharmaceutical Technology Conference and exhibition, Baveno Stresa, Italy, 11-13 April, 2000
51. Homšek, N. Cvetković, **J. Parojčić**, B. Homšek: *Influence of surfactant on nimodipine dissolution rate*, Proc. 3rd World Meeting APV/APGI, Berlin, 3/6 April 2000
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M14 Poglavlja u knjizi ili radovi u tematskom zborniku međunarodnog značaja/*Book chapters and monographs*

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9. Petrović J, Ibrić S, Betz G, **Parojčić J**, Đurić Z. Application of dynamic neural networks in the modeling of drug release from polyethylene oxide matrix tablets, European Journal of Pharmaceutical Sciences 2009, 38 (2): 172-180.

M22 Rad u vodećem međunarodnom časopisu/Paper in the leading international scientific journal

10. Grbic S, **Parojčić J**, Malenovic A, Đuric Z, Maksimovic M. A Contribution to the Glimperiride Dissociation Constant Determination. J Chem Eng Data 2010; 55(3): 1368–71.

M23 Radovi u međunarodnim časopisima/Papers in the international scientific journals

11. Stojković A, Tajber L, Paluch KJ, Djurić Z, **Parojčić J**, Corrigan OI., Biopharmaceutical characterisation of ciprofloxacin-metallic ion interactions: comparative study into the effect of aluminium, calcium, zinc and iron on drug solubility and dissolution, Acta Pharm. 2014; 64(1):77-88.
12. Stojkovic A, **Parojčić J**, Djuric Z, Corrigan OI., A case study of in silico modelling of ciprofloxacin hydrochloride/metallic compound interactions, AAPS PharmSciTech. 2014; 15(2):270-8
13. Stojković A., Tajber L, Djurić Z, Corrigan O.I, **Parojčić J**. In vitro simulation of drug interaction: ciprofloxacin/zinc chloride. Journal Drug Delivery Science and Technology, 2014; 24 (2) 229-233.
14. Mašić I, Ilić I, Dreu R, Ibrić S, **Parojčić J**, Srčić S. Melt granulation in fluidized bed: a comparative study of spray-on versus in situ procedure. Drug Dev Ind Pharm. 2014; 40(1):23-32.
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M53 Radovi u naučnim časopisima/Papers in scientific journals

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21. Grbic S, **Parojčić J**, Djuric Z. *In silico* predviđanje apsorpcije karbamazepina nakon oralne primene tableta sa trenutnim oslobađanjem. *Arhiv za farmaciju* 3 (2012): 219-236
22. **Parojčić J**, Stojković A, Đurić Z, Biofarmaceutski aspekti interakcije ciprofloksacina i jona metala, *Arhiv za farmaciju* 2011; 61 (6) 539-557
23. Petrović J, Ibrić S, Jocković J, **Parojčić J**, Đurić Z, Primena perkolacione teorije u formulaciji farmaceutskih oblika: hidrofилne matriks tablete, *Arhiv za farmaciju* 2010; 60 (6): 1219-1236
24. Mašić I, Ilić M, Petrović Lj, Trajković S, Homšek I, **Parojčić J**, Đurić Z. Usporedno ispitivanje brzine rastvaranja metformin-hidrohlorida iz tableta različitih proizvođača, *Arh Farm* 2009, 59: 279-293.

M33 Radovi saopšteni na međunarodnim skupovima štampani u celini u knjizi izvoda ili u posebnom broju naučnog časopisa/Presentations at the international meetings, published in extenso

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26. Stanković S, Grbić S, Homšek I, Bogataj M, **Parojčić J.**, An *In Vitro – In Silico – In Vivo* approach in biopharmaceutical drug characterisation: metformin IR tablets, 9th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology, Lisbon, March 31st – April 3rd, 2014
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29. Homšek I, Dačević M, **Parojčić J**. In vitro/in silico/in vivo approach in biopharmaceutical drug characterization: would it open the door for biowaiver justification? 2nd Zagreb International Conference on Pharmaceutical Sciences, 25 – 26 October, 2013, Zagreb, Hrvatska
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33. Kocić I, Homšek I, Dačević M, **Parojčić J**, Vučićević, Prostran M, Miljković B. Development of level A in vitro-in vivo correlation for levothyroxine sodium tablets. 8th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology, Istanbul/Turkey, March 19-22, 2012
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35. S. Ibrić, J. Djuriš, **J. Parojčić**, Z. Djurić, Statistical and machine learning tools in evaluation and optimization of modified release products; 4th BBBB – Bled International Conference on Pharmaceutical Sciences; 29.9.-1.10.2011, Bled, Slovenia. EurJ Pharm Sci 2011; 44(S1): S31-2.
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40. Ilić M, Kovačević I, **Parojčić J**, Đurić Z. An investigation into the influence of physiologically based dissolution media on nifedipine release from modified release tablets, 7th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology, Valeta, Malta, March, 2010.
41. Grbić S, **Parojčić J**, Đurić Z. In vitro - in vivo correlation for gliclazide immediate release tablets based on mechanistic absorption simulation, 7th World Meeting on Pharmaceutics, Biopharmaceutics and Pharmaceutical Technology, Valeta, Malta, March, 2010.

M34 Radovi saopštena na međunarodnim skupovima štampana u izvodu/ *Presentations at the international meetings, published as abstract*

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 47. D. Lakić, **J. Parojčić**, N. Kovačević, M. Antonijević, Digital literacy of employers and students in Serbia, University conference: Employer Engagement in a Digital Age, University of Greenwich, jul 2012
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M62 Predavanja po pozivu na skupovima nacionalnog značaja štampana u izvodu/ *Invited lectures at the national meetings*

60. Grbić S, **Parojcic J**, Djuric Z. Computer Aided Biopharmaceutical Characterization: GastroPlus Absorption Simulation. Seminar Simulations Plus Software: Its Applications in Various Aspects of Pharmacy and Chemistry; 2013, 20. septembar; Beograd, Srbija
61. **Parojčić J**. Regulatorni i naučni pristupi ispitivanju brzine rastvaranja aktivne supstance iz lekovitih preparata: mogućnost izostavljanja ispitivanja biološke ekvivalentnosti in vivo. II Naučni simpozijum Farmaceutskog fakulteta „Biološka raspoloživost (BR) I biološka ekvivalentnost (BE) lekova: novi regulatorni i naučni pristupi“, Beograd 28.septembar 2012.
62. **Parojčić J**. Pravci razvoja farmaceutske delatnosti – izazovi za univerzitetsko obrazovanje, V Konferencija Marketing u farmaciji, Beograd, 2012

M64 Saopštenja na skupovima nacionalnog značaja štampana u izvodu/ *Presentations at national meetings*

63. Kocić I, Homšek I, Dačević M, Grbić S, **Parojčić J**, Vučićević K, Prostran M, Miljković B, GastroPlus simulations of levothyroxine absorption from immediate release tablets: the investigation of a possibility of biowaiver, Simulations plus software: its applications in various aspects of pharmacy and chemistry, Seminar, 2013; 20. Septembar, Beograd.
64. Grbić S, Đuriš J, Mašić I, Medarević Đ, **Parojčić J**. Procena opravdanosti primene *biowaiver*-a za preparate sa trenutnim oslobađanjem ibuprofena za oralnu upotrebu: *In vitro-in silico* pristup. II Naučni simpozijum Farmaceutskog fakulteta „Biološka raspoloživost (BR) I biološka ekvivalentnost (BE) lekova: novi regulatorni i naučni pristupi“, Beograd 28.septembar 2012
65. Stanković S, **Parojčić J**, Ibrić S, Đurić Z, Drug Dissolution Modeling and Simulation using DDDPlus Simulation Software. II Naučni simpozijum Farmaceutskog fakulteta „Biološka raspoloživost (BR) i biološka ekvivalentnost (BE) lekova: novi regulatorni i naučni pristupi“, Beograd 28. septembar 2012
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 68. Tomić I, Cvetković N, Homšek I, Marić Lj, **Parojčić J**. Procena opravdanosti regulatornih zahteva za uporedno ispitivanje brzine rastvaranja: metformin tablete sa trenutnim oslobađanjem. Simpozijum Biofarm 2011, Formulacioni pristupi u poboljšanju apsorpcije lekova; 2011, 27. oktobar; Beograd, Srbija.
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 75. Mašić I, Stojković A, **Parojčić J**, Đurić Z. Granulacija topljenjem u uređaju tipa fluidizirajućeg sistema – metoda za maskiranje gorkog ukusa paracetamola. V Kongres farmaceuta Srbije sa međunarodnim učešćem, Beograd, 13-17. Oktobar 2010, Arhiv za farmaciju 5(2010): 762-763
 76. Grbić S, **Parojčić J**, Đurić Z. *In silico* predviđanje resorpcije nimesulida iz tableta sa trenutnim oslobađanjem. V Kongres farmaceuta Srbije sa međunarodnim učešćem, Beograd, 13-17. oktobar 2010, Arhiv za farmaciju 5(2010): 770-771

M84 Tehničko rešenje (kategorija: bitno poboljšan postojeći proizvod ili tehnologija)/Technical improvements (improved existing product or technology)

77. Mašić I, Mašić R, Parojčić J, Ibrić S, Đurić Z, Modifikacija uređaja tipa fluidizirajućeg sistema za izvođenje postupka granulacije topljenjem, Nastavno naučno veće Farmaceutskog fakulteta prihvatilo pozitivnu recenziju 24.11.2011. godine.

CITIRANOST RADOVA/ *Web of Science Citation Reports*

Ukupan broj citata – 293 (bez autocitata), izvor Scopus Citation Overview

h-index autora je 10

Total number of citations (without autocitations) – 293, source Scopus Citation Overview

h-index 10

Pregled radova po kategorijama objavljenih u periodu pre i posle izbora u zvanje vanredni profesor

<p style="text-align: center;">Ime i prezime: Dr Jelena Parojčić Zvanje u koje se bira: redovni profesor Uža naučna oblast za koju se bira: Farmaceutska tehnologija</p>				
Vrsta rezultata (sa oznakom grupe i vrednošću)	Pre poslednjeg izbora		Posle poslednjeg izbora	
	Broj rezultata	Rezultat iskazan kvantitativno	Broj rezultata	Rezultat iskazan kvantitativno
Poglavlje u knjizi ili rad u tematskom zborniku međunarodnog značaja M14 (6)	-	-	3	18
Rad u vrhunskom međunarodnom časopisu - M21 (8)	7	54	6	48
Rad u vodećem međunarodnom časopisu - M22 (5)	-	-	1	5
Rad u međunarodnom časopisu - M23 (3)	15	45	9	27
Rad u naučnom časopisu - M50 (1)	18	18	5	5
Saopštenje sa međunarodnog skupa štampano u celini - M33 (1)	40	40	17	17
Saopštenje sa međunarodnog skupa štampano u izvodu - M34 (0,5)	28	14	18	9
Monografija nacionalnog značaja - M42 (5)	1	5	-	-
Uvodno predavanje sa nacionalnog skupa štampano u izvodu- M62 (1)	2	2	3	3
Saopštenje sa skupa nacionalnog značaja štampano u izvodu- M64 (0,2)	22	4,4	14	2,8
Tehničko rešenje - M84 (3)	-	-	1	3
Rukovođenje međunarodnim projektom (12)	-	-	3	36
Rukovođenje nacionalnim projektom (5)	-	-	1	5
Učešće na međunarodnom projektu (4)	-	-	1	4
Učešće na nacionalnom projektu (2)	3	6	1	2
Stručne publikacije (Udžbenik, praktikum, zbirka zadataka, ili poglavlje u publikaciji te vrste sa više autora)	1	-	1	-
UKUPNO		188,4		184,8

Summary overview of quantitative data related to publications before and after the appointment as associate professor

Name: Dr Jelena Parojčić Position: Professor Scientific field: Pharmaceutical technology				
Type of results (group and numerical value)	Before the appointment as associate professor		After the appointment as associate professor	
	Number of results	Quantitative value	Number of results	Quantitative value
<i>Book chapters and monographs – M11-M13 (6)</i>	-	-	3	18
<i>Paper in the top international scientific journal - M21 (8)</i>	7	54	6	48
<i>Paper in the leading international scientific journal - M22 (5)</i>	-	-	1	5
<i>Paper in the international scientific journal - M23 (3)</i>	15	45	9	27
<i>Paper in the scientific journal - M50 (1)</i>	18	18	5	5
<i>Presentation at international meetings published in extensor - M33 (1)</i>	40	40	17	17
<i>Presentation at international meetings published as abstract – M34 (0.5)</i>	28	14	18	9
<i>National monograph - M42 (5)</i>	1	5	-	-
<i>Invited lecture at national meetings – M62 (1)</i>	2	2	3	3
<i>Presentation at national meetings published as abstract – M64 (0.2)</i>	22	4,4	14	2,8
<i>Technical improvement - M84 (3)</i>	-	-	1	3
<i>International project coordination (12)</i>	-	-	3	36
<i>National project coordination (5)</i>	-	-	1	5
<i>Participation in the international research project (4)</i>	-	-	1	4
<i>Participation in the national research project (2)</i>	3	6	1	2
<i>Professional publications (textbook, handbook etc)</i>	1	-	1	-
TOTAL		188,4		184,8

MIŠLJENJE I PREDLOG/CONCLUSION AND RECOMMENDATION

Na raspisani konkurs za izbor jednog redovnog profesora za užu naučnu oblast Farmaceutska tehnologija, objavljenom u listu „Poslovi” od 28.05. 2014. godine, prijavio se jedan kandidat, dr sc. pharm. Jelena Parojčić, vanredni profesor na Katedri za farmaceutsku tehnologiju i kozmetologiju Farmaceutskog fakulteta u Beogradu.

Dr Jelena Parojčić rođena je 20.11.1968. u Beogradu. Farmaceutski fakultet u Beogradu završila je 1992. godine sa prosečnom ocenom 9,41 i ocenom 10 na diplomskom ispitu. Magistarski rad odbranila je 1996. godine. Doktorsku disertaciju pod nazivom „*Biofarmaceutska karakterizacija hidrofилnih matriks tableta sa usporenim oslobađanjem paracetamola,*” odbranila je na Farmaceutskom fakultetu u Beogradu 12.03.2004. godine. Specijalizaciju iz farmaceutske tehnologije završila je 2005 godine.

Dr sc. pharm. **Jelena Parojčić** učestvuje u teorijskoj nastavi iz predmeta Farmaceutska tehnologija II, Industrijska farmacija i Veterinarki lekovi na integrisanim akademskim studijama. Učestvuje u osmišljavanju i realizaciji teorijske i praktične nastave na specijalističkim studijama (za tri profila specijalizacija – zdravstvena specijalizacija iz Farmaceutske tehnologije i akademske specijalizacije iz Industrijske farmacije i Puštanje leka u promet) i nastave na doktorskim studijama iz Farmaceutske tehnologije na Farmaceutskom fakultetu u Beogradu. Srednja ocena nastavne aktivnosti na studentskoj anketi u 2012 i 2013. godini je 4,75. Koautor je jedne monografije, jednog univerzitetskog udžbenika za praktičnu nastavu, jedne multimedijalne publikacije koji je namenjen za korišćenje u nastavi na integrisanim akademskim studijama i specijalističkim studijama na Farmaceutskom fakultetu Univerziteta u Beogradu. Od izbora u zvanje vanrednog profesora, bila je mentor 5 odbranjenih doktorskih disertacija, član komisija za izradu i odbranu jedne doktorske disertacije, mentor 30 specijalističkih radova, član komisije za odbranu 54 specijalistička rada, kao i mentor 30 bibliografskih i eksperimentalnih završnih/diplomskih radova iz uže naučne oblasti Farmaceutska tehnologija. Prema Pravilniku o bližim uslovima izbora u zvanje nastavnika na Farmaceutskom fakultetu, brojčano iskazano **vrednovanje nastavne aktivnosti** dr sc Jelenu Parojčić je 291 poen (za izbor u zvanje redovni profesor potrebno 20).

Bila je rukovodilac je jednog nacionalnog i tri međunarodna projekta, a trenutno učestvuje u realizaciji jednog nacionalnog i dva međunarodna projekta. Aktivno saraduje sa School of Pharmacy and Pharmaceutical Sciences, Univerziteta u Dublinu, Farmaceutskim fakultetom Univerziteta u Ljubljani, Institute of Pharmaceutical Technology, Johannes Gutenberg Univerziteta u Majncu i School of Pharmacy, Univerziteta u Vašingtonu. Dr sci Jelena Parojčić objavila je ukupno 61 naučni rad (od izbora u zvanje vanrednog profesora 21), od kojih 13 u vrhunskim međunarodnim časopisima (od izbora u zvanje vanrednog profesora 6), 1 rad u istaknutom međunarodnom časopisu, 24 rada u međunarodnim časopisima (od izbora u zvanje vanrednog profesora 9) i 23 rada u naučnim časopisima kategorija M50 (od izbora u zvanje vanrednog profesora 5). Posle izbora u zvanje vanrednog profesora objavila je i 3 poglavlja u knjigama međunarodnog značaja i jedno tehničko rešenje verifikovano od strane Ministarstva za prosvetu, nauku i tehnološki razvoj Republike Srbije. Na naučnim i stručnim skupovima u zemlji i inostranstvu, učestvovala je sa 144 predavanja i poster prezentacija (od čega 52 nakon izbora u zvanje vanrednog profesora). Prema podacima iz baze Science Citation Index, radovi dr Jelene Parojčić su do sada citirani 273 puta (bez autocitata). Prema Pravilniku o bližim uslovima izbora u zvanje nastavnika na Farmaceutskom fakultetu, brojčano iskazano **vrednovanje naučne**

aktivnosti dr sc Jelene Parojčić je **184,8** poena (za izbor u zvanje redovni profesor je potrebno 35).

Dr Jelena Parojčić je angažovana u komisijama i radnim grupama na Farmaceutskom fakultetu, u Savezu farmaceutskih udruženja Srbije i u Agenciji za lekove i medicinska sredstva Srbije.

Na osnovu priložene dokumentacije o nastavnoj i naučnoj delatnosti smatramo da dr sc. Jelena Parojčić svojom aktivnošću i rezultatima doprinosi nastavnom i naučnom razvoju naučne oblasti Farmaceutska tehnologija na Farmaceutskom fakultetu u Beogradu. Članovi Komisije predlažu Izbornom veću Farmaceutskog fakulteta u Beogradu da, saglasno Zakonu o visokom obrazovanju i Statutu Farmaceutskog fakulteta u Beogradu, izabere dr sc. pharm. **Jelenu Parojčić** u zvanje **redovnog profesora za užu naučnu oblast Farmaceutska tehnologija** i da se uputi predlog Veću naučne oblasti medicinskih nauka Univerziteta u Beogradu za donošenje konačne odluke.

Following the call for a post of full professor published in the „Poslovi” bulletin on May, 28th 2014, one application has been received, from Jelena Parojčić, PhD, appointed associate professor in the Department of Pharmaceutical Technology and Cosmetology, Faculty of Pharmacy, University of Belgrade.

Jelena Parojčić was born in Belgrade on November, 20th, 1968. She was admitted to the Faculty of Pharmacy, University of Belgrade in the school year 1987/88 and graduated on February, 27th 1992, with the average mark 9.41 (out of 10). In 1996, she completed her MSc dissertation entitled “Comparative evaluation of commercially available paracetamol tablets and in vitro – in vivo correlation development”. In 2004, Jelena Parojčić completed her PhD thesis entitled “Biopharmaceutical characterisation of paracetamol hydrophilic matrix tablets”. In 2005, she completed the postgraduate specialization in pharmaceutical technology.

Jelena Parojčić is engaged in the design and delivery of undergraduate and postgraduate courses in pharmacy, including the integrated MPharm programme (Pharmaceutical Technology 2, Industrial Pharmacy and Veterinary Medicines), postgraduate specialization courses in Pharmaceutical Technology and Industrial Pharmacy and postgraduate doctoral studies in Pharmaceutical Technology. The average mark obtained from the students’ evaluation of teaching in the previous period was 4.75. She is the author of one monograph, co-author of the handbook for practicals in Pharmaceutical Technology and co-author of the multimedia handbook for Industrial pharmacy course. Since appointed as associate professor, Jelena Parojčić has supervised 5 PhD thesis, was a committee member for one PhD thesis; she supervised 30 postgraduate specialization dissertations and was a committee member for 54; she supervised 30 BPharm and MPharm dissertations. According to the Regulation on the conditions for promotion of teachers at the Faculty of Pharmacy, numerical value for the teaching activities of Jelena Parojčić is 291 point (request for the promotion to full professor is 20).

Jelena Parojčić was project coordinator for one national and tri international projects, and currently is engaged in one national and two international projects. She has established collaboration with the School of Pharmacy and Pharmaceutical Sciences, University of Dublin, Faculty of Pharmacy, University of Ljubljana, Institute of Pharmaceutical Technology, Johannes Gutenberg University in Mainz. Jelena Parojčić has published 61 paper in the peer-reviewed journals (21 since the appointment as associate professor), of which 13 in the top international scientific journals (6 since the appointment as associate professor); 1 in the leading international scientific journal, 24 in the international scientific journals (9 since the

appointment as associate professor) and 23 papers in the scientific journals (5 since the appointment as associate professor). Since the appointment as associate professor, Jelena Parojčić published 3 chapters in the international monographs and one technical improvement verified by the Ministry of education, science and technological development. She has presented a total of 144 oral and poster presentations at the national and international meetings (of which 52 since the appointment as associate professor). Based on the Science Citation Index, her papers were quoted 273 times (without autocitations). According to the Regulation on the conditions for promotion of teachers at the Faculty of Pharmacy, numerical value for the research activities of Jelena Parojčić is 184.8 points (request for the promotion to full professor is 35).

Jelena Parojčić contributes to a number of committees and working groups at the Faculty of Pharmacy, University of Belgrade and Medicines and Medical Devices Agency of Serbia.

Based on the documentation submitted, it is our view that Jelena Parojčić's results and activities contribute teaching and research in the field of pharmaceutical technology at the Faculty of Pharmacy, University of Belgrade. In accordance with the Law on higher education and the Statute of the Faculty of Pharmacy, members of the Committee recommend to the Council of the Faculty of Pharmacy to elect Jelena Parojčić, PhD to the full professor in Pharmaceutical Technology and forward the relevant application to the University of Belgrade Academic Council of Medical Sciences for final approval.

30.06.2014.

Članovi Komisije/Committee Members

Dr sc Zorica Đurić, redovni profesor
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