

## CURRICULUM VITAE

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### Postgraduate training

June 2003 PhD in Medical Science, specialized in Obstetrics and Gynaecology with the thesis " The Importance of Informatics in Assisted Human Reproduction" prepared and presented at "Victor Babeş" University, Timișoara, Faculty of General Medicine, scientific coordinator Professor IOAN MUNTEANU, diploma no. 180/22.07.2004 according to MedC regulation no. 3876/19.05.2004.

December 2005 PhD in Medical Science specialized in medical informatics, Department Informational Systems in Obstetrics and Gynaecology, scientific coordinator Professor MIHALAȘ Gheorghe Ioan, diploma no. 76/15.09.2006 according to MedC regulation no. 4871/07.08.2006.

September 2010 Master in Health management, 2009-2010  
2010 - 2011 Master in Embriology and Teratology

### Area of Expertise

Area of Expertise MD specialized in Obstetrics and Gynaecology - nov. 2003, Regulation of The Ministry of Health 1190  
Expertise in Obstetric and Gynaecological ultrasonography, laparoscopy, colposcopy, hysteroscopy  
Expertize in reproductive medicine (in vitro fertilization)

### Academic and Professional Appointments

Nov. 1998–Oct. 2002	- Assistant Professor, University of Medicine and Pharmacy "Victor Babeş", Timișoara, Faculty of General Medicine, Department of Obstetrics and Gynaecology, during doctoral studies
Nov. 1998 - 2003	- Residency in Obstetrics and Gynaecology at the County Emergency Hospital, Timișoara
March 2004- January 2013	- Assistant Professor, University of Medicine and Pharmacy "Victor Babeş", Timișoara, Faculty of General Medicine, Department of Obstetrics and Gynaecology
June 2005	- specialist doctor in Obstetrics and Gynaecology and Cheaf of Department of Surgery Team IV, County Emergency Hospital, Timișoara
From Sept. 2009-present	Senior specialist in Obstetrics and Gynaecology, County Emergency Hospital, Timișoara
February 2013	- Lecturer, University of Medicine and Pharmacy "Victor Babeş", Timișoara, Faculty of General Medicine, Department of Obstetrics and Gynaecology
From October 2015-present	- Associate professor, University of Medicine and Pharmacy "Victor Babeş", Timișoara, Faculty of General Medicine, Department of Obstetrics and Gynaecology
From December 2016 – November 2019	Cheaf of the II-nd Department of Obstetrics and Gynecology, County Emergency Hospital, Timișoara
From October 2018-present	Member of the Doctoral School within IOSUD UMFVBT (19/8140 / 27.06.2018) based on the Order of the Ministry of National Education regarding the granting of the habilitation certificate in the field of doctoral university studies no. 3403 / 22.03.2018

### Experience in project participation

Type of the project	Role	Period
<b>CNCSIS project 2006, Type A No. 755 – NEW DIRECTIONS IN THE DIAGNOSIS AND THE MANAGEMENT OF THE PERINATAL FETAL DISTRESS AND THE ITS CONSEQUENCES</b>	member	2006-2008
<b>VIASAN project 2006 No. 1180, COMPUTER OPTIMISED DIAGNOSIS, SURGICAL TREATMENT AND PROGNOSIS OF CARDIOVASCULAR DISEASES - CARDIOCOMP</b>	member	2006-2008
<b>Grant VIASAN 2006, No. 135, ASSIGNATION OF THE MARKERS AND MECHANISMS FOR THE HUMAN STEM CELLS IN VITRO DIFFERENTIATION IN THE THERAPY OF MIOCHARDIC CELL REGENERATION</b>	member	2006-2008
<b>VIASAN project 2006, No. 99, INTEGRATED INFORMATION SYSTEM FOR EVALUATING THE FACTORS ASSOCIATED WITH RISK PREDICTION AND QUALITY IN OBSTETRICS</b>	member	2006-2008
<b>International project of bilateral cooperation Romania-Hungary, National Programme II, Capacity Module III, 2006, No. 54, EPIDEMIOLOGICAL MODELING OF THE HUMAN PAPILOMA VIRUS INFECTION AS A RISK FACTOR IN THE CERVIS UTERI CARCINOMA CSONGRAD AND TIMIS COUNTIES</b>	projekt manager	2008-2009
<b>Projekt PN II-IDEAS, 2009, 590</b> FUNDAMENTAL RESEARCH REGARDING THE PARTICULAR ASPECTS ASSOCIATED WITH THE BLOOD FLOW IN THE PATHOLOGY OF THE HUMAN CIRCULATORY SYSTEM WITH QUANTIFICATION OF THEIR IMPLICATIONS ON THE PLACENTAR CIRCULATION	member	2009-2012

### Experience in peer evaluation of research

	<b>Organizing institution of the evaluation process</b>	<b>Type of projects/papers</b>	<b>Year of the competition</b>
1.	The National Center for Programme Management, Romania	The Partnership Programme of The National Plan for Research-Development-Innovation II	2008
2.	The National Council for Scientific Research for Higher Education - The Executive Unit for Financing Higher Education and Academic Scientific Research (CNCSIS - UEFISCSU), Romania	The Programme "IDEAS" - Exploratory Research Projects	2008
3.	The National Science Fund of Bulgaria	Young Researchers Competition Research Infrastructure Development Competition	2009
4.	Medical Informatics Europe Conference	Peer review of the papers	2009
5.	The National Council for Scientific Research for Higher Education - The Executive Unit for Financing Higher Education and Academic Scientific Research (CNCSIS - UEFISCSU), Romania	Postdoctoral Research Projects  Projects for stimulation of the turn back of the young researchers	2010

### **Conferences organiser**

	<b>Event</b>	<b>Role</b>
1.	THE IMPROVEMENT OF MORBIDITY AND MORTALITY INDICATORS DUE TO CERVICAL CANCER, USING INFORMATION AND PREVENTION METHODS, 20-22 november 2009, Timisoara, Romania	president
2.	THE INTERNATIONAL CONFERENCE FOR HUMAN REPRODUCTIVE HEALTH, THE NORMAL AND PATHOLOGICAL PREGNANCY, 26-28 November 2010, Timisoara, Romania	president
3.	CTG TRAINING COURSE, May 29 <sup>th</sup> , 2011, Timisoara, Romania	Romanian coordinator
4.	THE VI-TH EDITION OF THE DKMT CONFERENCE OF OBSTETRICS AND GYNECOLOGY, 30-31 May 2011, Timisoara, Romania	Vice-president
5.	THE INFERTILITY SOCIAL AND MEDICAL PHENOMENA WEEK, IN ROMANIA, 09 – 14 April 2012, Timisoara, Romania	Member in the organizing committee
6.	SUMMER PERINATOLOGY COURSE, 03 – 07 July 2012, Timisoara, Romania	Member in the organizing committee
7.	SIMPOSION OF PRIMARY PREVENTION OF THE CONGENITAL ANOUMALIES AND THE COMPLICATIONS IN PREGNANCY, 20 <sup>th</sup> of September 2012, Timisoara, Romania	Member in the organizing committee
8.	NATIONAL DAY OF INFERTILITY SIMPOSIUM, 29 <sup>th</sup> of November 2012, Timisoara, Romania	Member in the organizing committee
9.	CONGRESS OF ROMANIAN-GERMAN SOCIETY OF OBSTETRICS AND GYNECOLOGY, 4-6 July 2013, Timisoara, Romania	Member in the organizing committee
10.	WORKSHOP: HOW TO DEAL WITH MALPRAXIS, 20 <sup>h</sup> of March 2014, Timisoara, Romania	Member in the organizing committee
11.	PRECONGRESS COURSE OF MINIMALLY INVASIVE SURGERY IN	Member in the

	GYNECOLOGY - THE 2ND NATIONAL CONGRESS OF MINIMALLY INVASIVE SURGERY IN GYNECOLOGY WITH INTERNATIONAL PARTICIPATION, 28 MAY 2014, Timisoara, Romania	organizing committte
12.	THE 2ND NATIONAL CONGRESS OF MINIMALLY INVASIVE SURGERY IN GYNECOLOGY WITH INTERNATIONAL PARTICIPATION, 29-31 may 2014, Timisoara, Romania	Member in the organizing committte
13.	WORKSHOP OF PREMATUREITY – DEVA’S SYMPOSIUM DAYS, 21 november 2014, Deva, Romania	Member in the organizing committte
14.	NATIONAL DAY OF INFERTILITY SIMPOSIUM, 28th of November 2014, Timisoara, Romania	Member in the organizing committte
15.	WORKSHOP: PREMATUREITY – HYPERTENSION IN PREGNANCY – DEBATE, 15 April 2015, Timisoara, Romania	Member in the organizing committte
16.	PRECONFERENCE COURSE OF LAPAROSCOPIC SURGERY - THE VIII-TH EDITION OF THE DKMT CONFERENCE OF OBSTETRICS AND GYNECOLOGY, 21 - 23 SEPTEMBER 2015, , TIMISOARA, ROMANIA	Member in the organizing committte
17.	THE VIII-TH EDITION OF THE DKMT CONFERENCE OF OBSTETRICS AND GYNECOLOGY, 24 - 25 SEPTEMBRIE 2015, TIMISOARA, ROMANIA	Member in the organizing committte
18.	NATIONAL DAY OF INFERTILITY SIMPOSIUM, 4TH OF DECEMBER 2015, TIMISOARA, ROMANIA	Member in the organizing committte

#### List of representative published articles

1. Enatescu, Ileana; Craina, Marius; Gluhovschi, Adrian; Giurgi-Onucu, Catalina; Hogeia, Lavinia; Nussbaum, Laura Alexandra; Bernad, Elena; Simu, Mihaela; Cosman, Doina; Iacob, Daniela; Marinescu, Ileana; Enatescu, Virgil Radu. The role of personality dimensions and trait anxiety in increasing the likelihood of suicide ideation in women during the perinatal period. JOURNAL OF PSYCHOSOMATIC OBSTETRICS & GYNECOLOGY, ISSN 0167-482X, eISSN 1743-8942, MARCH 2020, DOI 10.1080/0167482X.2020.1734790, WOS:000518265900001
2. Bernad, Sandor I.; Susan-Resiga, Daniela; Bernad, Elena S. Hemodynamic Effects on Particle Targeting in the Arterial Bifurcation for Different Magnet Positions. Molecules. 2019 Jul 9;24(13):2509. doi: 10.3390/molecules24132509
3. SI Bernad, D Susan-Resiga, L Vekas, ES Bernad UA Drug targeting investigation in the critical region of the arterial bypass graft Journal of Magnetism and Magnetic Materials, 2018, Vol: 475, 14-23 doi.org/10.1016/j.jmmm.2018.11.108 WOS:000458152000004 0304-8853 3.046
4. Mirabela Dima, Daniela Iacob, Ciprian Duta, Stelian Pantea, Otilia Marginea, Elena Bernad, Marius Craina, Angela Boglut, Izabella Petre AC Association Between Mannose - binding Lectin and Serum Parameters of Neonatal Sepsis Rev de Chimie, 2016, vol 67, no 3, Published: March 2016, pp. 557-560 WOS: 000375364800036 0034-7752 1.412
5. Elena Bernad, Stelian Pantea, Angela Boglut, Ciprian Duta, Sandor I. Bernad, Izabella Petre PA Investigation of Chorionic Artery Bifurcation Using Micro Vascular Casting Model Revista de Chimie, 2016, 67(2), pp: 339-343, Published: Feb 2016, WOS:000369524300026 0034-7752 1.412
6. Diana Camelia Bonte, Angela Boglut, Ciprian Duta, Izabella Petre, Elena Bernad, Cristina Vlad Daliborca, Radu E. Iacob, Mirabela Dima, Daniela Iacob AC The Harmful Effects of Smoking during Pregnancy and Correlating Lead and Selenium Levels in Mothers and Premature Fetuses Revista de Chimie, 2016, 67(1), pp: 116-118, Published: January 2016 WOS:000369524300026 0034-7752 1.412

7. Elena Silvia Bernad, Izabella Petre, S.I. Bernad, R. Ilina PA Fetoplacental Network Hemodynamics Investigations Using Vascular Casting Model Materiale Plastice, 2015, vol 52, no 4, pp: 584-587, Published: December 2015 WOS:000368971900034 0025-5289 1.248
8. Elena S. Bernad, Sandor I. Bernad, Izabella Sargan, Marius L. Craina PA Saphenous vein graft patency after geometry remodeling Journal of Mechanics in Medicine and Biology, 2015, vol. 16, no. 2, 1540051, Published: December 2015 WOS:000367257400013 0219-5194 0.875
9. Sandor I. Bernad, Alin I. Bosioc, Elena S. Bernad, Marius L. Craina AC Helical type coronary bypass graft performance: Experimental investigations Bio-Medical Materials and Engineering, vol. 26, no. s1, pp. 477-486, 2015, Published: October 2015 WOS:000361671800055 0959-2989 0,988
12. E.S. Bernad, S.I. Bernad, M.L. Craina PA Hemodynamic parameters measurements to assess severity of serial lesions in patient specific right coronary artery Bio-Medical Materials and Engineering, Volume 24(1), 2014, pp: 323-334 WOS:000327312600039 0959-2989 0.872
13. SI Bernad, A Bosioc, ES Bernad, ML Craina AC Comparison between experimentally measured flow patterns for straight and helical type graft Bio-Medical Materials and Engineering, Volume 24/1, 2014, pp: 853-860 WOS:00327312600098 0959-2989 0.872
14. Izabella Petre, Roxana Folescu, Onuț băcean, Anca Bordianu, Ioana Mihaela Luca, Elena Bernad, Marius Lucian Craina AC The macroscopic examination of the placental vasculature with a corrosive agent Romanian Journal of Morphology and Embriology, Vol. 55, No.2 Suppl., 2014, pp: 613-617, Published: June 2014 WOS:000342868500016 1220-0522 0.912
15. Vida M, Lupse O, Gomoi, V, Stoicu-Tivadar L, Stoicu-Tivadar V, Bernad E UA Using Web Services to support the interoperability between healthcare information systems and CDS systems Control Engineering and Applied Informatics, Volume: 16, Issue: 1, Pages: 106-113, 2014, ISSN: 1454-8658, Published: March 2014 WOS:000333724500012 1454-8658 0.698

### Chapters in books - international publishing house

1. S.I. Bernad, **Elena S. Bernad**, T. Barbat, V. Albulescu, R. Susan-Resiga, Capter: Effects of different types of input waveforms in patient-specific right coronary atherosclerosis hemodynamics analysis, pp: 55-73, in Modelling in Medicine and Biology edited by C. A. Brebbia, WIT Press, 2011, Southampton, UK, 220 pages, ISBN: 978-1-84564-4, eISBN: 978-1-84564-573-1, <http://www.witpress.com/978-1-84564-572-4.html>
2. Marius Craina, **Elena Bernad**, Răzvan Nițu, Paul Stanciu, Cosmin Cîtu, Zoran Popa, Corina Șerban, Rodica Mihăescu, Capter 6: Renal Disease and Pregnancy, in Diseases of Renal Parenchyma edited by Manisha Sahay, ISBN 978-953-51-0245-8, InTech Open Access Publisher, 2012, Croatia, hard cover, 304 pages, DOI: 10.5772/27795, (<http://www.intechopen.com/books/diseases-of-renal-parenchyma/renal-disease-in-pregnancy> )
3. S.I. Bernad, **E.S. Bernad**, T. Barbat, C. Brisani, V. Albulescu, Capter 11: An analysis of blood flow dynamics in AAA, pp: 191-206, in Etiology, Pathogenesis and Pathophysiology of Aortic Aneurysms and Aneurysm Rupture, editor: Reinhart Grudmann, InTech Open Access Publisher, 2011, Croatia, hard cover, 222 pages, ISBN: 978-953-307-523-5. DOI: 10.5772/17438 (<http://www.intechopen.com/books/show/title/etiology-pathogenesis-and-pathophysiology-of-aortic-aneurysms-and-aneurysm-rupture>)