

## CURRICULUM VITAE

### Kratka Biografija

#### **Dr Anđelka Hedrih**

doctor medicine

Asistent na Državnom Univerzitetu u Novom Pazaru,  
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Andelka Hedrih rođena je 1978. u Nišu. Osnovnu i srednju školu završila je u Nišu sa odličnim uspehom. Medicinski fakultet u Nišu je upisala je 1997.g. Diplomirala je 2005. g. sa prosečnom ocenom 9,89. Diplomski rad pod naslovom Funkcionalna asimetrija hemisfera pod mentorstvom prof. Dr Milkice Nešić, odbranila je sa ocenom 10. Bila je stipendista Fondacije za stipendiranje naučnog i umetničkog podmlatka od 2000-2004. godine. Dobitnik je stipendije Norveške vlade „Za generaciju koja obećava“, 2000. godine. Dobitnik je nagrade za istaknute rezultate u naučno –istraživačkom radu na 45. kongresu studenata medicine i stomatologije Srbije i Crne Gore 2004. godine. U toku osnovnih studija učestvovala je na kongresima studenata medicine u zemlji i inostranstvu. U tokom školske 2002 godine bila je demonstrator na predmetu Patologija na medicinskom Fakultetu u Nišu. 2005 godne upisala je doktorske akademske studije na Medicinskom fakultetu u Kragujevcu, smer Humana Reprodukција i položila sve ispite sa prosečnom ocenom 9,33. Pred izradom je doktorske disertacije. 2005 godine upisala je i doktorske studije na Univerzitetu u Beogradu, na smeru Biomedicinsko inženjerstvo i tehnologije koje se realizuje u okviru Centra za Multidisciplinarnе studije u Beogradu. Prosek ocena položenih ispita na ovim studijama je 10. U periodu od februara do juna 2008 godine radila je kao saradnik u nastavi na predmetu Anatomija i Fiziologija za Inženjere na Mašinskom fakultetu u Beogradu. Oktobra 2009.g. zasnovala je radni odnos na Državnom Univerzitetu u Novom Pazaru, kao saradnik u nastavi na Departmanu za bio-hemijske I medicinske nauke, a septembra 2010. izabrana je u zvanje asistenta.

Aktivna je učesnica 10th Conference on dynamical systems theory and applications, Decembra 2009. Łódź, Poland, The south-east european regional conference of psychology –(SEERCP 2009) oktobra, 2009, u Sofiji, International workshop on knowledge and technology transfer in/to developing countries: automation and infrastructure. (DECOM-TT 2009), septembra 2009, u Ohridu, 7th EUROMECH Solid Mechanics Conference, septembra, 2009 u Lisabonu, I 2nd International Congress of Serbian Society of Mechanics (IConSSM 2009) na Paliću juna 2009; Fifth medical scientific conference or students and young doctors, u Plevenu oktobra 2006.

Učestvovala je na projektu Ministarstva za nauku i tehnološki razvoj : Interakcija imobilisanih ćelija, tkiva i biološki aktivnih molekula u bioreaktorskim sistemima. EBP: 142075 u periodu od 2006-2009. kao istraživač stipendista.

EuroMech Society- ENOC Yang Scientist Prize Rome 2011

**Oblast interesovanja:** Biomedicinski inženjering, mehanika bioloških sistema

## ГОДИШЊИ ИЗВЕШТАЈ ЗА ПРОЈЕКАТ ОИ174001 ЗА 2011:

Рад у часопису:

1. **Andjelka Hedrih, Vladimir Hedrih, Attitudes and motives of potential sperm donors in Serbia**, (Stavovi i motivi potencijalnih davalaca sperme u Srbiji). **Vojnosanit Pregl 2012; January Vol. 69 (1): pp. 49-57.** ORIGINAL ARTICLE UDC: 159.923::159.947.5]::618.177-089.888.11. YU ISSN 0042-8450; IF za 2011: 0,199 - M23
2. Andjelka N. Hedrih. **Mechanical models of the double DNA.** *International Journal of Medical Engineering and Informatics 2011 - Vol. 3, No.4 pp. 394 - 410.* DOI: 10.1504/IJMEI.2011.044753 ISSN (Online): 1755-0661 - ISSN (Print): 1755-0653. trenutno nije na listi- SJR за 2010: 0,278.
3. Andjelka Hedrih. Modeling oscillations of zona pelucida before and after fertilization **EUROMECH Newsletter, Young Scientist Prize Paper.** ENOC 2011 Young Scientist Prize, awarded at the 7th European Nonlinear Dynamics Conference held in Rome, Italy, July, 2011- in press.-nije na listi.
4. **Hedrih, A., Hedrih(Stevanović) K. , Modeling Double DNA Helix Main Chains of the Free and Forced Fractional Order Vibrations**, Chapter in Book [Advanced topics on modeling, system stability and control applications of fractional calculus](#), Editor M. Lazarević, (in press)

Саопштења на међународним скуповима (рад у виду сажетака):

1. **Hedrih, A., Hedrih, V.** Sperm donation related attitudes of potential sperm donors in the Novi Pazar region of Serbia, in Sažetci priopćenja **20. Dani Ramira i Zorana Bujasa, Zagreb, Hrvatska, 7-9. Travanj, 2011.pp 107.**
2. Andjelka N. Hedrih. **Modeling oscillations of zona pelucida before and after fertilization.** Proceedings of The 7th European Nonlinear Dynamics Conference (ENOC 2011) **MS-13 Nonlinear Dynamics of Biological Systems in Regular Session.** ENOC 2011, 24-29 July 2011, Rome, Italy, pp. 151.

Домаћи конгрес са међународним учешћем, рад штампан у изводу:

1. **Andjelka N. Hedrih, Katica R. (Stevanović) Hedrih** MODELING DOUBLE DNA HELIX MAIN CHAINS FORCED VIBRATIONS. Proceedings of Abstracts IconSSm 2011, The Third Serbian (28<sup>th</sup> Yu) Congress on Theoretical and Applied Mechanics, Vlasina lake, Serbia, 5-8 July 2011. M2-06, pp. 212.

Домаћи конгрес са међународним учешћем, рад штампан у целини:

2. Hedrih, K. Stevanović-Hedrih. MODELING DOUBLE DNA HELIX MAIN CHAINS FORCED VIBRATIONS. PROCEEDINGS of **The 3rd International Conference of Serbian Society of Mechanics (IconSSM 2011)**, Vlasina lake (Serbia), 5-8 July 2011. M2 –06. pp. 1147-1180.

Саопштење на међународном скупу штампано у целини:

1. Lj. Jovasevic, **A. Hedrih** The Organization of Recreational and Contest Activities for Disabled Persons. Proceedings of Annual conference of University of Russe, October 28-29 th, Ruse, Bulgaria, 2011, **in press**.
2. **A. Hedrih**, V. Hedrih Attitudes and motives of potential sperm donors in Novi Pazar region of Serbia. Proceedings of Annual conference of University of Russe, October 28-29 th, Ruse, Bulgaria, 2011, **in press**.
3. V. Hedrih. **A. Hedrih**, Personality Traits and Sperm Donor Related Attitudes of Potential Sperm Donors in the Novi Pazar Region of Serbia. Proceedings of Annual conference of University of Russe, October 28-29 th, Ruse, Bulgaria, **2011, in press**.

Признања за научни рад:

1. Награда за младе научнике за најбоље изложен рад.: **ENOC 2011 Young Scientist Prize**.- потврда у прилогу, за рад:  
**Andjelka N. Hedrih. Modeling oscillations of zona pelucida before and after fertilization.** Proceedings of The 7th European Nonlinear Dynamics Conference (ENOC 2011) **MS-13 Nonlinear Dynamics of Biological Systems in Regular Session. ENOC 2011**, 24-29 July 2011, Rome, Italy, pp. 151.

Остало:

1. Предавање на семинару механике у Организацији Одељења за Механику Математичког института САНУ, Београд, **Sreda, 20 april 2011 u 18 sati**, тема: **Mehanički modeli dvostrukih DNK lanaca.**

Истраживач на пројекту бр ОИ174001:

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7.1. 2012.

### Spisak radova pre 2011:

1. Andjelka N. Hedrih. Mechanical models of the double DNA. International Journal of Medical Engineering and Informatics (IJMEI). in press.
2. A.Hedrih, V.Hedrih. Attitudes and motives of potential sperm donors in Serbia. Vojnosanitetski pregled. in press.
3. Katica R. (Stevanović) Hedrih, Andjelka N. Hedrih. Eigen modes of the double DNA chain helix vibrations, *J. Theor. Appl. Mech.*, **48**, 1, pp. 219-231, 2010

4. Hedrih (Stevanović) Katica and Hedrih Andjelka, (2009) , Considering vibrations of the double DNA main chains by using two models: Hereditary and fractional order model, 10<sup>th</sup> Conference on Dynamical Systems – Theory and Applications, Proceedings, DSTA Lody 2009, Edited by J.A. Awrejcewicy, M. Kazmierczak, P. Olejnik, J. Mrozowski, Lodz, December 7-10, 2009, Poland, ISBN 978-83-929120-4-0, Department for Automatic and Biomechanics, Lodz, Vol. II, pp. 829-838.
5. Katica (Stevanović) Hedrih, Andjelka N. Hedrih, Transfer of energy of oscillations through the double DNA chain helix, 7<sup>th</sup> EUROMECH Solid Mechanics Conference, J. Ambrósio et.al. (eds.), Lisbon, Portugal, September 7-11, 2009, CD –MS-24, Paper 315, pp. 1-15.
6. Katica (Stevanovic) Hedrih, Andjelka N. Hedrih. Transfer of energy of oscillations through the double DNA chain helix. 7th EUROMECH Solid Mechanics Conference, Lisbon, Portugal, September 7-11, 2009, MS-24, Kinetics, Control and Vibrorheology KINCONVIB- 2009: 121-135.
7. Katica (Stevanović) Hedrih, Andjelka N. Hedrih. Eigen main chain modes of the double DNA fractional order chain helix vibrations. (Part I), Proceedings 2nd International Congress of Serbian Society of Mechanics (IConSSM 2009) Palić (Subotica), Serbia, 1-5 June 2009, M1-03:CD, pp. 1-15.
8. Hedrih (Stevanović) Katica and Hedrih Andjelka, (2009), ***Considering Vibrations of the Double DNA Main Chains Via a Model with Hereditary Properties***, IFAC Ohrid 2009 (is uploaded to the DECOM-TT 2009 web site with ID number D65) Makedonija. AUTOMATION AND INFRASTRUCTURE:KNOWLEDGE AND TECHNOLOGY TRANSFER IN/TO DEVELOPING COUNTRIES (Knowledge and Technology of Decision and Control), *A Preprints Volume from the 6th IFAC Workshop DECOM-09, Hotel Metropol Resort, Ohrid, Republic of Macedonia, September, 26–29 2009.* Published for THE INTERNATIONAL FEDERATION OF AUTOMATIC CONTROL By The Society for Electronics, Telecommunications, Automation, and Informatics (ETAI), Macedonian NMO to the IFAC Skopje, 2009, **CD –2009, pp. 341-346.**
9. Andjelka Hedrih (2007). Prezervacija spermatozooida. **Medicinski časopis Srpskog lekarskog drustva, Sekcija Kragujevac**, Supp II, 4(2): 42-46.
10. Andjelka Hedrih, Milkica Nešić (2006). Funkcionalna asimetrija hemisfera - bihevioralni aspekti, **Godišnjak za psihologiju**, Vol. 4., No.4-5., pp. 19-39.
11. Andjelka Hedrih, Aleksandra Stanković, Bojana Stamenković (2005): Influence of repetitive microtrauma on pathogenesis and progression of hand and neck osteoarthritis. **Facta Universitatis. Medicine and Biology**, Vol 12, 179-184