ИМЕ И ПРЕЗИМЕ: -Милан Стојановић, Department of Medicine, Columbia University; - **The NSF Center for Molecular Cybernetics, Phase 1 and 1.5, Director and PI;** - **Associate Director, Division of Clinical Pharmacology and Experimental Therapeutics .**	
РАДОВИ У МЕЂУНАРОДНИМ ЧАСОПИСИМА	**Najvažniji radovi (citiranost preko 100):** Stojanović, M.N.; de Prada, P.; Landry, D.W. "Aptamer-based folding fluorescent sensor for cocaine", J. Am. Chem. Soc. 123: 4928–4929, 2001. **(234)** Stojanović, M.N.; Stefanović, D. "Deoxyribozyme-based automaton" in Nature Biotech. 21: 1069–1073, 2003 (razmatrano u naučnoj javnosti i štampi). **(219)** Stojanović, M.N.; Mitchell, T.E.; Stefanović, D. "Deoxyribozyme-based logic gates" J. Am. Chem. Soc. 124: 3555–3561, 2002. **(188)** Stojanović, M.N.; Landry, D.W. "Aptamer-based colorimetric sensor for cocaine" J. Am. Chem. Soc. 124: 9678–9679, 2002 (preporučeno od strane urednika časopisa Science) **(156)** Stojanović, M.N. Kolpashchikov, D.M. "Modular allosteric sensors" in J. Am. Chem. Soc. 126: 9266–9270, 2004 (analizirano u Nature News&Views,). **(129)** Stojanović, M.N.; de Prada, P.; Landry, D.W. "Fluorescent sensors based on aptamer self-assembly", J. Am. Chem. Soc. 122: 9678–9679, 2000. **(134)** Stojanović, M.N. Stefanović, D "Deoxyribozyme-based half-adder" in J. Am. Chem. Soc. 125: 6673–6673, 2003 **(117)** Stojanović, M.N. Lund, K. Manzo, A.J. Dabby, N. Michelotti, N. Johnson-Buck, A. Nangreave, J. Taylor, S. Pei, R. Walter, N.G. Winfree, E. Yan, H. "Molecular robots guided by prescriptive landscapes", Nature, May 2010, 465, 206–209. **(130)**
РАДОВИ САОПШТЕНИ НА МЕЂУН. СКУПОВИМА	**Predavanja po pozivu, odabrana zaključno sa 2008: >100** 1. Harvard University (Chemistry and Chemical Biology), 2003

	2. National Academy of Sciences (NAS) sponsored Chinese–American Beckman Frontiers of Science Meeting – FoSM (pozvani predavač), 2004 3. ICOSECS-4, Belgrade, Yugoslavia (pozvani predavač), 2004 4. DNA World Meeting (Caltech, Presenter and Organizing Committee Member), 2005 5. New York University Nanotechnology Seminar (pozvani predavač), 2005 6. DNA 12, Seoul (plenarno predavanje), 2006 7. Gordon Conference on Biomacromolecules (pozvani predavač), 2006 8. 1st International Workshop on Frontiers in Microscopy, Bar Harbor (pozvani predavač), 2006 9. Manchester Interdisciplinary Bioinstitute Opening Ceremony (pozvani predavač) , 2006 10. Hospital for Special Surgery (Research Division), 2006 11. NAS sponsored Japanese–American FoSM (Session on Molecular Computing and Robotics, Invited Chair and Speaker), 2006 12. Harvard University (Special Occasion Research Seminar), 2007 13. Gordon Conference on Nucleic Acids (pozvani predavač), 2007 14. University of Paris 5 René Descartes (Chemistry), Paris, France, 2007 15. Albany Conversations (pozvani predavač), 2007 16. Massachusets Institute of Technology (MIT) FAB Forum on Digital Fabrication, Chicago (pozvani predavač), 2007 17. Gordon Conference on Oscillatory Chemical Systems (pozvani predavač), 2008 18. 3rd CIMTEC-2008 (Smart Materials, Structures, Systems), Acireale, Italy (pozvani predavač), 2008 19. American Chemical Society Meeting, Philadelphia (pozvani predavač) , 2008 20. FEBS Course Lecturer (Spetses, Greece), 2008

	21. NSF Workshop on EMT Program, Princeton (Committee Member and Chair, Molecular Computing Panel), 2008
РЕЗУЛТАТИ У РАЗВОЈУ ОБРАЗОВНО-НАУЧНЕ ОБЛАСТИ	**Naučni doprinos kandidata Milana N. Stojanovića zbog kojih se predlaže** Istraživanja Milana N. Stojanovića mogu se rasporediti prema rešavanju problema na koje su bila usmerena: 1. izgradnju novih biološki aktivnih molekula zasnovanih na nukleinskim kiselinama 2. poreklo i karakterizaciju kompleksnog ponašanja u molekulskim smešama ili mrežama. 3. silikomimetičke automate koje autonomno računaju 4. autonomne terapeutske sisteme (molekuli koji samostalno donose odluke) 5. molekulsku robotiku 6. receptore (molekule) zasnovane na nukleinskim kiselinama koji mogu da komuniciraju sa logičkim kapijama 7. aptamerske senzore. **Odabrani naučni radovi po temama:** **A. Senzori:** 1 Stojanović, M.N.; de Prada, P.; Landry, D.W. “Fluorescent Sensors based on aptamer self-assembly”, J. Am. Chem. Soc. 122: 11547-11548, 2000. (134) 2 Stojanović, M.N.; Landry, D.W. “Aptamer-based colorimetric sensor for cocaine” in J. Am. Chem. Soc. 124: 9678–9679, 2002. (156)

	3 Stojanović, M.N. Kolpashchikov, D.M. "Modular allosteric sensors" in J. Am. Chem. Soc. 126: 9266–9270, 2004. (129) **B. Molekuli koji računaju:** 4 Stojanović, M.N.; Mitchell, T.E.; Stefanović, D. "Deoxyribozyme-based logic gates" J. Am. Chem. Soc. 124: 3555–3561, 2002. (188) 5 Stojanović, M.N.; Stefanović, D. "Deoxyribozyme-based automaton" in Nature Biotech. 21: 1069–1073, 2003. (219) 6 Macdonald, J.; Li, Y.; Sutovic, M.; Lederman, H.; Pendri, K.; Lu, W.; Andrews, B.; Stefanović, D.* Stojanović, M.N. "Medium Scale Integration of Molecular Logic Gates in an Automaton" Nano Lett., 6: 2598–2603, 2006. (60) 7 Pei, R., Matamoros, E., Stefanović, D., Stojanović, M. N. "Teaching a Molecular Automaton to Play a Game" Nature Nanotech. 2010, 5: 773–777 (15). 8 Yashin, R.; Rudchenko, S., Stojanović, M.N. "Networking Particles over Distance Using Oligonucleotides" J. Am. Chem. Soc. 129: 15581–15584, 2007, (13). **C. Molekulska Robotika:** 9 Pei, R.; Taylor, S.; Rudchenko, S.; Stefanović, D.; Mitchell, T.E.; Stojanović, M.N. "Behavior of polycatalytic nanoassemblies on substrate-displaying matrices" J. Am. Chem. Soc. 128: 12693–12699, 2006. (56) 10 Lund K., Manzo A.J., Dabby N., Michelotti N., Johnson-Buck A. Nangreave J., Taylor S., Pei R., Stojanović M.N., Walter N.G., Winfree E., Yan H. "Molecular robots guided by prescriptive landscapes" Nature 2010 May 13;465(7295):206–210, (130). **D. Veštački nos:** 11 Stojanović M. N.; Green E.G.; Semova S.; Nikic D.B.; Landry D.W. "Cross-reactive DNA-based arrays" in J. Am. Chem. Soc. 125: 6085–6070, 2003, (29). 12 Green, E.G.; Olah, M.J.; Abramova, T.; Williams, L.; Stefanović, D.; Worgall, T.; Stojanović, M.N.

	"Rational Approach to Minimal Cross-reactive Arrays" J. Am. Chem. Soc. 128: 15278–15282, 2006 (17) 13 Pei, R.; Shen, A; Olah, M.; Stefanović, D.; Worgall, T.; Stojanović, M.N. "An approach to high resolution cross-reactive arrays based on matching binding motifs" Chem. Commun. (Cambridge, UK). 2009 Jun 14;(22):3193–31955. (9). 14 Yang, K.-A; Pei, R.; Stefanović, D.; Stojanović, M. N. "Optimizing Cross-reactivity with Evolutionary Search for Sensors" J. Am. Chem. Soc. 2012, 134: 1642–1647. (1) **E. Medicinske primene:** 15 Taylor S.; Pei, R.; Moon, B.; Damera, S.; Stojanović, M.N " Triggered Release of an Insulin Conjugate from a DNA Device by an Orally Administrable Small Molecule – Quinine" Angew. Chemie Int. Ed. 2009, 48, 4394-4397. (4)
ЦИТИРАНОСТ НАУЧНИХ РЕЗУЛТАТА	**Oblast istraživanja i kandidata** Oblast istraživanja dr M. N. Stojanovića obuhvata izgradnju novih biološki aktivnih molekula zasnovanih na nukleinskim kiselinama; medicinsku hemiju; poreklo i karakterizaciju kompleksnog ponašanja u molekulskim smešama ili mrežama; silikomimetičke automate koje autonomno računaju; autonomne terapeutske sisteme (molekuli koji samostalno donose odluke) – potpuno nova samostalna ideja autora; molekulsku robotiku; receptore (molekule) zasnovane na nukleinskim kiselinama koji mogu da komuniciraju sa logičkim kapijama; aptamerske senzore. **Ukupan broj radova objavljenih u naučnim časopisima: 64, citiranost (Scopus bez samocitata) 1813, h=16** **Ukupan broj predavanja na skupovima i po pozivu: >100** **Broj naučnih projekata: završenih 12; trenutnih 9.**

МЕЂУНАРОДНА РЕПУТАЦИЈА	ГОСТ УРЕДНИК МЕЂУНАРОДНОГ ЧАСОПИСА	
	ПРЕДСЕДАВАО МЕЂУНАРОДНИМ НАУЧНИМ КОНФЕРЕНЦИЈАМА	
	ЧЛАНСТВО У УРЕЂИВАЧКИМ ОДБОРИМА МЕЂУНАРОДНИХ НАУЧНИХ ЧАСОПИСА	
	АУТОР МЕЂУНАРОДНЕ МОНОГРАФИЈЕ	**Broj radova objavljenih kao revije, poglavlja u knjigama i uvodni članci: 12 (navedeni su odabrani)** 1. Stojanović, M.N.; Stefanović D.; Yan H.; LaBean T. “DNA computation” in “Bioelectronics” Edts. Willner, I. and Katz. E., J. Willey, 2005. 2. Margolin, A. A.; Stojanović M.N. ”Boolean Calculations Made Easy (for Ribozymes)” Nature Biotech. 23: 1374, 2005 (News and Views). 3. Stojanović, M.N. “Bottom-up Approach to Complex Molecular Behaviors” Edt. Jonoska, N., Springer, 2006. 4. Macdonald J.; Stefanović D.; Stojanović M.N. “Testing of deoxyribozyme-based logic gates” in “Fluorescence Application in Biochemistry and Molecular Biology” Edt. Didenko V., Humana Press, 2006. 5. Meir, A.; Marks, R.S.*; Stojanović, M.N. “Aptameric Sensors” in Handbook of Biosensors and Biochips, Wiley-Interscience, 2007. 6. Stojanović, M.N. “Deoxyribozyme-based computing” in “Progress in Nucleic Acid Research and Molecular Biology”, Elsevier, 82, 2008. 7. Macdonald J.; Stefanović D.; Stojanović M.N. “Deoxyribozyme-based Computation” in

		"Functional Nucleic Acids" Edt. Li & Lu. Springer, 2009. 8. idem, "Molecular Computing" in "Encyclopedia of Complexity and Systems Science", Springer, 2009.
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