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8. **Andrej Perović**, Svetlana Perović, Thomas-Benjamin Seiler and Henner Hollert (2013): In vitro cytotoxic and teratogenic potential of sediment extracts from Skadar lake using fish cell line RTL-W1 and Danio rerio embryos. Archive of Biological Sciences, Vol 65, Issue 4, pp 1539-1546
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12. Svetlana Perovic, Snezana Pantovic , Valentina Scepanovic, **Andrej Perovic**, Vladimir Zivkovic, Biljana Damjanovic-Vratnica (2019). Evaluation of antimicrobial activity and activity on the autonomic nervous system of the lavender essential oils from Montenegro. Progress in Nutrition 2019; Vol. 21, N. 3: 584-590
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13. Svetlana Perovic, Bojana Sljukic, Maja Šrut, **Andrej Perovic**, Goran I. V. Klobučar (2019): Evaluation of DNA damage in haemolymph of freshwater mussels *Unio pictorum* from Lake Skadar. Biologia
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Crna Gora
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SPRATNI LIST ZA AKADEMIČKE ZANJUĆE

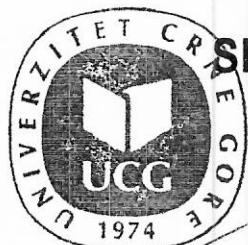
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Podgorica, 9. oktobar 2018. god.

Na osnovu člana 72 stav 2 Zakona o visokom obrazovanju („Službeni list Crne Gore“ br. 44/14, 47/15,40/16,42/17,71/17) i člana 32 stav 1 tačka 9 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore na sjednici održanoj 09.10.2018.godine, donio je

ODLUKU O IZBORU U ZVANJE

Dr ANDREJ PEROVIĆ bira se u akademsko zvanje **redovni profesor** Univerziteta Crne Gore za **oblast Fiziologija životinja i Humana genetika** na Prirodno-matematičkom fakultetu Univerziteta Crne Gore, na neodređeno vrijeme.



**SENAT UNIVERZITETA CRNE GORE
PREDSJEDNIK**

Prof.dr Danilo Nikolić, rektor

LIČNE INFORMACIJE



Vesna Mačić

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RADNO ISKUSTVO

1997-2011
 2011-2016
 2016-

Saradniku istraživanju
Naučni saradnik
Viši naučni saradnik
Institut za biologiju mora, Univerzitet Crne Gore
Istraživanje fitobentosa- izučavanje morskih algi i cvjetnica, mapiranje staništa i monitoring priobalne zone morskog dna, stvaranje zaštićenih zona u moru, problem invazivnih vrsta, problem čvrstog otpada u moru, fauna morskog dna.

 OBRAZOVANJE I
 OSPOSOBLJAVANJE

- 26/09/1996 Diplomirani profesor biologije, Fakultet za biologiju, Univerzitet Novi Sad
- 20/04/2001 Magistarski rad: Taksonomska, morfološko-anatomska i fiziološka ispitivanja morskih cvjetnica *Posidonia oceanic* (L.) Del. i *Cymodocea nodosa* (Ucria) Asch. u Bokokotorskom zalivu, u cilju zaštiti.
 Univerzitet u Novom Sadu, centar za interdisciplinarnе i multidisciplinarnе studije i razvojna istraživanja za potrebe privrede- CIMSI
- 08/07/2010 Doktorska disertacija: Ekološki potencijal i bioindikatorske karakteristike roda *Cystoseira* C.Agardh 1820(Phaeophyceae) u crnogorskom primorju
 Univerzitet u Novom Sadu, Prirodno-matematički fakultet, Novi Sad (Srbija)

OSOBNE VJEŠTINE

Maternji jezik Srpsko-Hrvatski

Ostali jezici

engleski
italijanski

| | RAZUMIJEVANJE | | GOVOR | | PISANJE |
|-------------|---------------|---------|---------------------|--------------------|---------|
| | Slušanje | Čitanje | Govorna interakcija | Govorna produkcija | |
| engleski | C1 | C1 | C2 | C2 | C2 |
| italijanski | C1 | C1 | C1 | C1 | C2 |

Stupnjevi: A1 i A2: Početnik - B1 i B2: Samostalni korisnik - C1 i C2: Iskusni korisnik
Zajednički europski referentni okvir za jezike

DODATNE INFORMACIJE

ostale vještine

SCUBA (autonomni) ronioc R3; vozačka dozvola B kategorije, BOSIET

Međunarodni projekti

1. Project- »Marine science of coastal management in Adriatic region, Western Balkans« (2006-2010). Norwegian cooperation program on Research and Higher Education with the Countries on the Western Balkans, regarding Marine Science and Coastal Management, saradnik na projektu.
2. **ADRICOSM project**, 2006-2009 - Adricosm Integrated River Basin and Coastal Zone Management System: Montenegro Coastal Area and Bojana river Catchment).- saradnik na projektu.
3. **MEDPOL project**, 2009- 2010 - The marine pollution assessment and control component of Mediterranean Action Plan, saradnik na projektu.
4. Komparativna istraživanja dinamike planktona Bokokotorskog zaliva i obalnih voda južnog Jadrana, 2011-2012. Projekat bilateralne saradnje između Crne Gore i Hrvatske. Ministarstvo nauke Crne Gore- saradnik na projektu.
5. **MedMPAnet project, RAC SPA**, 2011-2013 development of Marine and Coastal Protected Areas (MPAs) in Montenegro, saradnik na projektu.
6. Alohtone vrste u obalnom području južnog Jadrana, 2013-2014. Projekat bilateralne saradnje između Crne Gore i Hrvatske. Ministarstvo nauke Crne Gore-saradnik na projektu.
7. Joint Actions for Sea Pollution Prevention (**JASPPER**)- (2013-2015). IPA program prekogranične saradnje između Crne Gore i Hrvatske-saradnik na projektu.
8. Ballast water management system for Adriatic Sea Protection (Balmas) –IPA saradnik na projektu.
9. Sistem upravljanja napuštenim ribarskim alatima u Jadranskom regionu – **DEFISHGEAR**- IPA saradnik na projektu.
10. Project - »Towards COast to COast NETworks of marine protected areas (from the shore to the high and deep sea), coupled with sea-based wind energy potential (CoCoNET) « FP7 projekt-saradnik na projektu.
11. **MedKeyHabitats**, RAC SPA 2015-2016, Mapping of Marine Key Habitats and initiation of monitoring network in Montenegro, saradnik na projektu.
12. Bilateralna saradnja sa Slovenijom "Ekološko istraživanje morskih žarnjaka u Piranskom zalivu (Slovenija) i Bokokotorskem zalivu (Crna Gora) sa posebnom pažnjom na mogući uticaj klimatskih i okeanografskih promjena" 2016-2017. rukovodilac projekta.
13. COST, projekat "Advancing marine conservation in the European and contiguous seas" (MarCons) Proposal Reference OC-2015-1-19601, partner i lider WP3
14. Ekološko istraživanje morskih žarnjaka u Piranskom zalivu (Slovenija) i Bokokotorskem zalivu (Crna Gora) sa posebnom pažnjom na mogući uticaj klimatskih i okeanografskih promjena 2016-2017 saradnik na projektu.

Nacionalni projekti

1. Biološki indikatori eutrofikacije u Bokokotorskem zalivu. Nacionalni projekat 2008-2011. Ministarstvo prosvjete i nauke Crne Gore, Sektor za nauku i visoko obrazovanje – saradnik na projektu.
2. Monitoring i biomonitoring kvaliteta vode za marikulturu (2009-2011). Projekat Ministarstva poljoprivrede i ruralnog razvija, Sektor za ribarstvo i

marikulturu - saradnik na projektu.

3. Uticaj antropogenog faktora na živi svijet u priobalnom akvatorijumu Crnogorskog primorja. Nacionalni projekat 2012-2015. Ministarstva nauke Republike Crne Gore-**rukovodilac projekta**
4. Survey of the future Marine Protected Area of Platamuni and the adjacent peninsula of Lustica with emphasis on marine caves as potential habitats of the endangered Mediterranean monk seal. 2013. Institute of marine biology, pp 70. **rukovodilac projekta**
5. Further survey of marine caves including monk seal habitats in Montenegro (cape Platamuni - cape Voluica). 2014. Institute of marine biology pp. 53. **rukovodilac projekta**
6. Final survey of marine caves including monk seal habitats in Montenegro (cape Voluica - cape Đeran). 2015. Institute of marine biology, pp. 141. **rukovodilac projekta**
7. Stanje zaštićenog kamenog Korala (*Cladocora caespitosa*) u Bokokotorskom zalivu i veza s Klimatskim primjenama (akronim je 3K) (2018-2019) **rukovodilac projekta**

Važniji treninzi u regionu

- | | |
|-----------------------------|--|
| 1. Italy (Venice) | 1998 (15 days) Coastal zone management |
| 2. Canada (Sidny B.C.) | 2002 (7 days) Side Scan sonar |
| 3. Italy (Oristano) | 2003 (60 days) Seagrass mapping |
| 4. Italy (Cesenatico) | 2005 (20 days) Biotoxins in the food, HAB |
| 5. France (Nice) | 2006 (30 days) Taxonomy of algae |
| 6. France (Nice) | 2007 (30 days) Taxonomy of lgae and CARLIT |
| 7. Egypt (Sharm El Sheik) | 2008(7 days) Invasive species |
| 8. Tunis (Tabarka) | 2009 (12 days) Management in the MAP |
| 9. Turkey (Kas) | 2010 (7 days) Management of the fishery in the Marine protected area (MPA) |
| 10. Spain (Santa Pola) | 2011 (5 days) Monitoring in MPA |
| 11. Croatia (Split) | 2011 (6 days) Management of tourism in MPA |
| 12. Italy (Lecce) | 2013 (3 days) Habitat classification and GES |
| 13. Lebanon (Batroun) | 2014 (3 days) Ostreopsis HAB and monitoring |
| 14. Morocco (Rabat) | 2014 (6 days) GES and MAP |
| 15. Tunis (Monastir) | 2014 (9 days) Mapping key habitats |
| 16. USA (several locations) | 2015 (18 days) Coastal and marine resources management in the U.S. |

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2. Mačić, V., Sekulić, P. (2001): Investigation of mineral contents of seagrasses *Posidonia oceanica* (L.) Del. and *Cymodocea nodosa* (Ucria) Asch. Za{tita voda pp: 333-339.
3. Budak, V., Mačić, V., Mačić, Lj. And Anačkov, G. (1999): Endemic plants in flora of surrounding (Montenegro, Yugoslavia). VIII European Ecological Congress Eureco '99., Halkidiki, Greece, Abstract

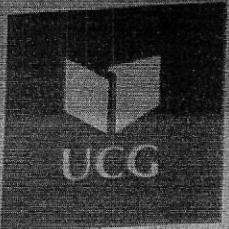
4. Budak, V., Mačić, V., Mačić, Lj. And Anačkov, G. (2000): Flora brda Sv Ivan u okolini Kotora. Zbornik radova o flori jugoistočne Srbije i susjednih područja. Abstract
5. Mačić, V. (2000): Morska cvjetnica *Posidonia oceanica*(L.) Del. u akvatoriji od Herceg Novog do Budve. Zbornik radova o flori jugoistočne Srbije i susjednih područja. Abstract
6. Mačić, V., Boža, P. (2001): Seagrasses meadows in the bay of Boka Kotorska. Zasavica 2001. Abstract.
7. Mačić, V., Krstić, B., and Pajević, S. (2001): Mjerjenje intenziteta fotosinteze kod morskih cvjetnica *Posidonia oceanica*(L.) Del. i *Cymodocea nodosa* (Ucria) Asch. XIV Simposium of Yugoslav society of plant physiology. Abstract.
8. Mačić, V. (2001): Phenology of seagrass *Posidonia oceanica*(L.) Del. in the south-East Adriatic (Cape of Koči{te). "Natural potentials of mainland, inland waters and sea waters of Montenegro and their protection" Abstract.
9. Anačkov, G., Budak, V. and Mačić, V. (2001): West-Balcanic endems in the flora of Suraunding of Kotor.). "Natural potentials of mainland, inland waters and sea waters of Montenegro and their protection" Abstract.
10. Mačić, V., Pajević, S. and Krstić, B.: Rate of photosynthesis and dark respiration of seagrasses *Posidonia oceanica* (L.) Del. and *Cymodocea nodosa* (Ucria) Asch. Zaštita voda 2002, 319-322.
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23. Macic, Vesna, Thierry Thibaut, Boris Antolic and Zorica Svircev (2010): Distibution of the most common *Cystoseira* species on the coast of Montenegro (South-East Adriatic Sea). Fresenius Environmental Bulletin (ISSN 1018-4619), Vol.19, No.6, pp. 1191-1198
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31. V. Mačić, P. Bernat, A. Molinari, M. Fant, M. Cassola, F. Polato, E. Giovannetti, A. Rzaničanin, J. Knežević and N. Čadjenović (2011). State of Posidonia meadows and fish assamblages in the future MPA „Katić“ (Montenegro). *Studio Marina* 25(1): 73-82.
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Na osnovu člana 29 stav 3 Zakona o naučno-istraživačkoj djelatnosti („Službeni list Crne Gore“ br.80/10,57/14) i člana 32 stav 1 tačka 9 Statuta Univerziteta Crne Gore, Senat Univerziteta Crne Gore na sjednici održanoj 21.jula 2016.godine, donio je

ODLUKU O IZBORU U ZVANJE

Dr VESNA MAČIĆ bira se u naučno zvanje viši naučni saradnik Univerziteta Crne Gore za oblast Fitobentos na Institutu za biologiju mora, na period od pet godina.



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Magistar bioloških nauka, smjer Biologija mikroorganizama, postala marta, 2001.god. na Katedri za mikrobiologiju, Instituta za botaniku i Botaničke bašte Jevremovac, Biološkog fakulteta, Univerziteta u Beogradu.

Magistarska teza: Mikrobiološki testovi za detekciju inhibitora genotoksičnog efekta zagađivača životne sredine, Mentor: Prof. Dr Draga Simić.

Doktor bioloških nauka, smjer Biologija mikroorganizama, postala decembra, 2006.god. na Katedri za mikrobiologiju, Biološkog fakulteta, Univerziteta u Beogradu.

Doktorska disertacija: Primjena integralnog pristupa i analize diverziteta bakterijskih zajednica u procjeni ekotoksikološkog stanja Skadarskog jezera. Mentor: Prof. Dr Jelena Knežević-Vukčević.

Područje istraživanja: Mikrobiologija, ekološka mikrobiologija i ekotoksikologija.

Naučno- istraživački rad:

Doktorat: Analize ekološkog i ekotoksikološkog stanja akvatičnih ekosistema korišćenjem baterije mikrobioloških testova i bio-testova na višim organizmima (Comet assay, Citotoksični test na ćelijskim linijama RTG-2 i RTL-W1, EROD test i dr) i komparativna analiza genetske raznolikosti mikroorganizama u vodi i sedimentima akvatičnog ekosistema Skadarskog jezera, primjenom klasičnih metoda i molekularno-genetičkih: izolacija DNK iz prirodnih uzoraka, sedimenata i vode, PCR tehnika, elektroforeza TTGE (Temporal Temperature Gel Electrophoresis), RFLP (Restriction Fragment Length Polymorphism), izolacija rezistentnih bakterija na živu.

Magistratura: Tema magistarske teze je iz oblasti antimutageneze/antikancerogeneze koja se bavi detekcijom antimutagenih i antikancerogenih supstanci. Naročita pažnja se poklanja supstancama biljnog porijekla (tanini, terpenoidi, fenoli, flavonoidi i dr.) sa inhibitornim ili modulatornim efektom na genotoksične agense i njihovoj primjeni u primarnoj prevenciji maligniteta i drugih bolesti uzrokovanih mutacijama.

Predmet istraživanja je detekcija supstanci sa antimutagenim potencijalom u etarskom ulju bosiljka i pelina pomoću mikrobioloških testova.

Testirano je kompletno etarsko ulje (EU) bosiljka (*O.basilicum* L.) dobijeno postupkom destilacije vodenom parom herbe bosiljka, kao i čiste supstance zastupljene u etarskom ulju bosiljaka i pelina. Testirali smo sledeće supstance: linalol (dominantna komponenta etarskog ulja bosiljka), α i β tujon, kamfor, mircen, 1,8 cineol i limonen.

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Asistent:

- Anatomija biljaka, PMF-Studijska grupa za biologiju, Univerzitet Crne Gore, 1996-2004.
- Mikrobiologija, PMF-Studijska grupa za biologiju, Univerzitet Crne Gore, 2001-2005.
- Ekološka mikrobiologija, Metalurško-tehnološki fakultet, Univerzitet Crne Gore, 2003-2005.
- Industrijska mikrobiologija, Metalurško-tehnološki fakultet, Univerzitet Crne Gore, 2003-2005.
- Mikrobiologija, Poljoprivredni fakultet, Smjer Biljna proizvodnja, Univerziteta Crne Gore, 2005-2006.

Nastavnik:

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- Industrijska mikrobiologija, MTF, Hemispska tehnologija, Univerzitet Crne Gore
- Zaštita životne sredine, PMF, Studijska grupa Biologija, Univerzitet Crne Gore
- Biologija s humanom genetikom, Medicinski fakultet, grupa Stomatologija i Medicina
- Odabrana poglavlja iz Mikrobiologije, PMF, postdiplomske studije
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Publikacije:

S. Jokanovic, K. Kajan, S. Perovic, M. Ivanic, V. Mačić, S. Orlić (2021): Anthropogenic influence on the environmental health along Montenegro coast based on the bacterial and chemical characterization. Environmental Pollution, 271, 116383.

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A. Scepanovic, S. Krivokapic, V. Scepanovic, V. Zivkovic, S. Perovic (2019): CHEMICAL CONSTITUENTS AND BIOLOGICAL POTENTIAL OF ESSENTIAL OILS OF HELICHRYSUM ITALICUM (ROTH) G. DON FROM MONTENEGRO. Agriculture and Forestry. Vol 65 (2), pp. 53-58.

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Monitoring of the Lake Skadar by TRIAD approach and microbial diversity profiling. Prezentovala na SETAC 15th Europe Annual meeting, Lille, France, 2005.

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Recenziranje

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Environmental Science and Pollution Research, ESPR. Manuscript ESPR-D-13-00354; Article Type: Research Article. SCI journal. Impact Factor: 2.651; ISSN: 0944-1344 (Print) 1614-7499 (Online)

Međunarodni Projekti:

EUREKA: Fitopreparati-prirodni materijali na bazi natkritičnih ekstrakata sa kontrolisanim oslobođanjem aktivnih komponenti

EU CBRN CoE Project 67: Strengthening CBRN Waste Management Capabilities in South-East and Eastern European Countries

EUREKA: " Comprehensive processing of plant extracts for high value added products. COMPLANT. Aktivni učesnik u projektu i koordinator ispred PMF-a.

Inovativni projekat: Balneološki efekti peloida, mineralne vode, ljekovitog i aromatičnog bilja na inflamatorni odgovor kod reumatoidnih i kardiovaskularnih oboljenja.

Bilateralni projekat (Crna Gora i Srbija): Ispitivanje hemipreventivnog potencijala ljekovitih i aromatičnih biljaka iz ruralnih regiona Crne Gore

Program monitoringa morskog ekosistema: Program praćenja bioloških indikatora i biomarkera na zagađenje

Bilateralni projekat (Crna Gora i Hrvatska): „Filogenetska analiza diverziteta bakterijskih zajednica u sedimentu u Bokokotorskom zalivu- FILOSED“

Promovisanje mreža i razmjena u zemljama jugoistočne Evrope, Skadarsko jezero, Crna Gora, SRJ, nosilac projekta Regionalni centar za životnu sredinu i jugoistočnu Evropu, REC.

Integrated monitoring of the Skadar Lake, Njemačka Rektorska Konferencija, HRK (Hochschulrektorenkonferenz).

Triad projekat: Integrated sediment assessment of the Skadar Lake , Njemačka Rektorska Konferencija, HRK (Hochschulrektorenkonferenz).

Detekcija mikroorganizama indikatora ekotoksičnosti Skadarskog jezera, Bilateralni projekat, naučno-tehnološke saradnje između Republike Slovenije i teritorije Srbije i Crne Gore.

“Interdisciplinary assessment of water resource management in two transboundary lakes in South Eastern Europe (DRIMON)” (Norwegian Institute for Water Research and Research Council of Norway).

SEE-ERA NET: An Integrated Strategy to Assess and Evaluate Water Quality of Lake Shkodra

LMOCP (Labor Market Oriented Curriculum) Experimental Biology and Biotechnology. WUS-Austria Project.

NEWEN (Netherlands and Western Balkans Environmental Network) by LeAF- Lettinga Associates Foundation, Wageningen University and Research, Unesco-Institute for Hydraulic Engineering and Institute for Environmental Studies- Vrije Universiteit Amsterdam.

Bilateralni projekat (Crna Gora-Hrvatska): Implementacija biomonitoringa zagađenja vodenih ekosistema (sliva Skadarskog jezera) korišćenjem biomarkera i biotestova

-Bilateralni projekat (Crna Gora-Slovenija): Procjena uticaja na okolinu u Goriškom regionu i regionu Skadarskog jezera kao posljedica poljoprivrednih aktivnosti

Bilateralni projekat (Crna Gora-Austrija): Identity and basic characterization of potential lactic acid bacteria starter cultures isolated from traditionally fermented milk products in Montenegro

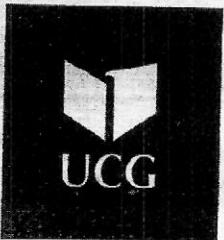
-Nacionalni projekat: Ekstrakcija, ispitivanje kvaliteta i biološka aktivnost farmakološki aktivnih supstanci odabranih aromatičnih biljnih vrsta sa područja Crne Gore

-Nacionalni projekat: Sinteza i karakterizacija kompleksa nekih prelaznih metala sa novim ditiokarbamatoligandima

-Nacionalni projekat: Primjena biotestova za ispitivanje uzročno posledične veze između zagađivača životne sredine i nivoa toksičnosti zemljišta Zetske ravnice i sedimenata Skadarskog jezera

Naučni boravci:

- *Zoološki Institut, Univerziteta Heidelberg, Laboratorije za Akvatičnu ekologiju i toksikologiju, 2002, 2003, 2004, 2005.*
- Univerzitetska klinika Heidelberg, Higijenski institut, Laboratorija za hemiju i mikrobiologiju, 2002, 2003, 2004, 2005.
- Biotehnički fakultet, Odjeljak za Biologiju, Univerzitet u Ljubljani, laboratorija za mikrobiologiju, 2004, 2005.
- Bioforsk, Norveški institut za Agrokulturu i Zaštitu životne sredine, Oslo, 2007.



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**SENAT UNIVERZITETA CRNE GORE
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