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📍 **Address :** Work: Bijenička cesta 54, 10000 Zagreb (Croatia)

WORK EXPERIENCE

Research assistant

Ruđer Bošković Institute [19/09/2000 – 28/02/2006]

Address: Zagreb (Croatia)

Higher research assistant

Ruđer Bošković Institute [01/03/2006 – 08/09/2011]

Address: Zagreb (Croatia)

Research associate

Ruđer Bošković Institute [09/09/2011 – 18/09/2018]

Address: Zagreb (Croatia)

Senior research associate

Ruđer Bošković Institute [19/09/2018 – Current]

Address: Zagreb (Croatia)

EDUCATION AND TRAINING

B.Sc. - biology (ecology)

Faculty of Science, University of Zagreb [04/10/1993 – 29/06/1999]

Address: Zagreb (Croatia)

PhD - biology (mycology)

Faculty of Science, University of Zagreb [2001 – 01/03/2006]

Address: Zagreb (Croatia)

LANGUAGE SKILLS

Mother tongue(s):

Croatian

English

LISTENING: B2 READING: B2 WRITING: C1

SPOKEN PRODUCTION: B1 SPOKEN INTERACTION: B1

AREAS OF EXPERTISE

Areas of expertise

- Mycology (biodiversity, taxonomy, molecular phylogeny, ecology of fungal communities, and fungal biogeography)
- Environmental microbiology (fungal and bacterial communities)
- Conservation of nature (conservation of fungi and their habitats)

MEMBERSHIP IN SCIENTIFIC SOCIETIES

Membership in scientific societies

- Croatian Mycological Society (Zagreb, Croatia) - Founder and Secretary
- European Mycological Association - Galway, Ireland
- Associazione Micologica Bresadola - Trento, Italy
- The Society of Herbarium Curators (Claremont, SAD)
- Croatian Microbiological Society (Zagreb)

SCIENTIFIC DUTIES

Scientific duties

- Head of Laboratory for Biological Diversity, Ruđer Bošković Institute, Zagreb, Croatia
- Croatian National Fungarium (Zagreb, Croatia) - Founder and Curator

BOOKS

Books

- Tkalčec Z., Mešić A., Matočec N., Kušan I. (2009). Crvena knjiga gljiva Hrvatske (Red Book of Croatian Fungi). Državni zavod za zaštitu prirode i Ministarstvo kulture, Zagreb.
- Tkalčec Z., Matočec N., Mešić A. (2003). Priručnik za komercijalno skupljanje gljiva. Ministarstvo zaštite okoliša i prostornog uređenja, Zagreb. Drugo, promijenjeno izdanje.
- Tkalčec Z., Matočec N., Mešić A. (1999). Priručnik za komercijalno skupljanje gljiva. Državna uprava za zaštitu prirode i okoliša, Zagreb.

Scientific papers 1/3

Published 39 scientific papers in peer reviewed journals (cited in Scopus database).

- Četković I, Tkalčec Z, ... , **Mešić A** (2020) *Entoloma conferendum*, *Hygrocybe coccineocrenata*, and *Hypoholoma ericaeum* new to Montenegro. *Mycotaxon* 135: 637–647.
- **Mešić A**, Šamec D, Jadan M, Bahun V, Tkalčec Z (2020) Integrated morphological with molecular identification and bioactive compounds of 23 Croatian wild mushrooms samples. *Food Bioscience* 37, 100720.
- Crous PW, ... **Mešić A**, ... Groenewald JZ (2020) Fungal Planet description sheets: 1042-1111. *Persoonia* 44: 301–459.
- Wijayawardene NN, ... , **Mešić A**, ... Thines M (2020) Outline of Fungi and fungus-like taxa. *Mycosphere* 11: 1060-1456.
- He M-Q, Zhao R-L, Hyde KD, ... **Mešić A**, ... Tkalčec Z, ... Kirk PM (2019) Notes, outline and divergence times of *Basidiomycota*. *Fung Div* 99: 105–367. (IF 15.6, Q1, 1/29 Mycology)
- Hyde KD, Tennakoon DS, Jeewon R, ... **Mešić A**, ... Tkalčec Z, ... Doilom M (2019) Fungal diversity notes 1036–1152: taxonomic and phylogenetic contributions on genera and species of fungal taxa. *Fung Div* 96: 1–242. (IF 15.6, Q1, 1/29 Mycology)
- Crous PW, Carnegie AJ, Wingfield MJ, Sharma R, ... Kušan I, ... Matočec N, ... **Mešić A**, ... Tkalčec Z, ... Groenewald JZ (2019) Fungal Planet description sheets: 868–950. *Persoonia* 42: 291– 473. (IF = 6.9, Q1, 3/29 Mycology)
- Phookamsak R, Hyde KD, Jeewon R., ... **Mešić A**, ... Kušan I, ... Matočec N, ... Tkalčec Z, ... Xu J (2019) Fungal diversity notes 929–1035: taxonomic and phylogenetic contributions on genera and species of fungi. *Fung Div*. 95: 1–273. (IF 15.6, Q1, 1/29 Mycology)
- Crous PW , Wingfield MJ, Burgess TI, ... Jadan M, ... Kušan I, ... Matočec N, ... **Mešić A**, ... Tkalčec Z, ... Groenewald JZ (2018) Fungal Planet description sheets: 716–784. *Persoonia* 40: 240–393. (IF = 8.2, Q1 in JCR/Mycology)
- Zamora JC, Svensson M, Kirschner R, Olariaga I, ... Kušan I, ... Matočec N, ... **Mešić A**, ... Tkalčec Z, ... Ekman S (2018) Considerations and consequences of allowing DNA sequence data as types of fungal taxa. *IMA Fungus* 9: 167–175. (IF = 4.31, Q1, 4/29 in JCR/Mycology)
- Kušan I, Matočec N, Jadan M, Tkalčec Z, **Mešić A** (2018) An overview of the genus *Coprotus* (*Pezizales*, *Ascomycota*) with notes on the type species and description of *C. epithecioides* sp. nov. *Myckeys* 29: 15–47. (IF = 2.44, Q3 in JCR/Mycology)

Scientific papers 2/3

- Crous PW, Wingfield MJ, Burgess TI, ... Jadan M, ... Kušan I, ... Matočec N, ... **Mešić A**, ... Tkalčec Z, ... Groenewald JZ (2017) Fungal Planet description sheets 625–715. *Persoonia* 39: 270–467. (IF = 8.2, Q1 u JCR/Mycology)
- Hyde KD, Norphanphoun C, Abreu VP, ... Kušan I, ... Jadan M, ... Matočec N, ... **Mešić A**, ... Tkalčec Z, ... Mortimer PE (2017) Fungal diversity notes 603–708: taxonomic and phylogenetic notes on genera and species. *Fungal Diversity* 87: 1–235. (IF = 15.6, Q1 in JCR/Mycology)
- Tibpromma S, Hyde KD, Jeewon R, ... **Mešić A**, ... Jadan M, ... Tkalčec Z, ... Karunarathna SC (2017) Fungal diversity notes 491–602: taxonomic and phylogenetic contributions to fungal taxa. *Fungal diversity* 83: 1–261. (IF = 15.6, Q1 in JCR/Mycology)
- **Mešić A**, Tkalčec Z, Kušan I, Matočec N (2016) New names and combinations in the genus *Entoloma* (*Agaricales*, *Basidiomycota*). *Phytotaxa* 289(3): 296–300.
- Saar I, **Mešić A**, Tkalčec Z, Peintner U, Kušan I (2016). *Cystoderma carpaticum* (*Basidiomycota*, *Agaricales*), a rare fungus newly recorded from Croatia. *Phytotaxa* 269(1): 21–32.
- Ivančević B, **Mešić A**, Tkalčec Z, Kušan I, Horjan I (2015). Studies on Croatian *Basidiomycota* 3: The first record of *Battarrea phalloides* (*Agaricales*) with a worldwide taxonomic review of *Battarrea* species. *Nova Hedwigia* 102(1-2): 197–209.
- Kušan I, Matočec N, **Mešić A**, Tkalčec Z (2015) A new species of *Thecotheus* from Croatia with a key to the known species with apiculate spores. *Sydowia*. 67: 51–63.
- Kušan I, Matočec N, **Mešić A**, Tkalčec Z (2015) *Tricharina tophiseda* — a new species from Croatia, with a revision of *T. japonica* (*Pyronemataceae*, *Pezizales*). *Phytotaxa* 221(1): 35–47.
- Tkalčec Z, **Mešić A**, Deng C-Y, Li T-H, Pleše B, Četković H (2015). *Hymenoporus paradoxus* gen. et sp. nov., a striking fungus of the family *Omphalotaceae* (*Agaricales*, *Basidiomycota*) with tubular hymenophore. *Phytotaxa*. 204(3): 203–212.
- Zgrablić Ž, Tkalčec Z, **Mešić A**, Marjanović H, Diminić D (2015). Smanjuju li ektomikorizne gljive osjetljivost crnog bora (*Pinus nigra* J. F. Arnold) na zarazu vrstom *Sphaeropsis sapinea* (Fr.) Dyko et Sutton? *Šumarski list* 7–8: 329–338.
- Zimmermann B, Tkalčec Z, **Mešić A**, Kohler A (2015). Characterizing aeroallergens by infrared spectroscopy of fungal spores and pollen. *PLOS One* 10(4): e0124240
- Peintner U, Schwarz S, **Mešić A**, Moreau P-A, Moreno G, Saviuc P (2013). Mycophilic or Mycophobic? Legislation and Guidelines on Wild Mushroom Commerce Reveal Different Consumption Behaviour in European Countries. *PLOS One* 8(5): e63926.
- Tkalčec Z, **Mešić A** (2013). Studies of two Corner types (*Marasmius nigroimplicatus* and *M. subrigidichorda*) and new *Gymnopus* combinations. *Mycotaxon* 123: 419–429.
- **Mešić A**, Tkalčec Z, Antonín V (2012). Studies on Croatian *Basidiomycota* 2: *Marasmiellus milicae* sp. nov. *Mycotaxon* 119: 233–239.
- Petersen RH, Hughes KW, Adamčík S, Tkalčec Z, **Mešić A** (2012). Typification of three European species epithets attributable to *Strobilomyces* (*Boletales*). *Czech Mycology* 64(2): 141–163.

Scientific papers 3/3

- Piljac Žegarac J, Šamec D, Piljac A, **Mešić A**, Tkalčec Z (2011) Antioxidant properties of extracts of wild medicinal mushroom species from Croatia. *International Journal of Medicinal Mushrooms* 13(3): 257–264.
- Tkalčec Z, **Mešić A**, Čerkez M (2011) *Galerella nigeriensis* (Agaricales), a new species from tropical Africa. *Mycotaxon*. 114: 263–270.
- **Mešić A**, Tkalčec Z, Deng C-Y, Li T-H, Pleše B, Četković H (2011) *Gymnopus fuscotramus* (Agaricales), a new species from southern China. *Mycotaxon* 117: 321–330.
- **Mešić A**, Tkalčec Z (2010) New names in the genus *Marasmius*. *Mycotaxon* 113: 283–285.
- **Mešić A**, Tkalčec Z (2009) Studies on Croatian *Basidiomycota* 1: *Gerhardtia piperata* (Agaricales). *Mycotaxon* 110: 413–421.
- Tkalčec Z, **Mešić A**, Hausknecht A (2009) Two new taxa of *Bolbitiaceae* (Agaricales) from Croatia. *Mycotaxon* 107: 249–258.
- **Mešić A**, Tkalčec Z (2008) *Entoloma reinwaldii*, a rare species new to Croatia. *Mycotaxon* 105: 295–300.
- Tkalčec Z, **Mešić A** (2008) *Gloiocephala cerkezii*, a new species from Croatia. *Mycologia* 100(2): 306–310.
- Hausknecht A, **Mešić A**, Tkalčec Z (2007) Two remarkable species of *Bolbitiaceae* (Agaricales) from Croatia. *Österreichische Zeitschrift für Pilzkunde* 16: 281–286.
- Tkalčec Z, **Mešić A**, Antonić O (2005) *Agaricales* (*Basidiomycota*, *Fungi*) of Sjeverni Velebit National Park in Croatia. *Periodicum Biologorum* 107(3): 341–349.
- Tkalčec Z, **Mešić A**, Antonić O (2005) Survey of the gasteral *Basidiomycota* (*Fungi*) of Croatia. *Natura Croatica* 14(2): 99–120.
- **Mešić A**, Tkalčec Z (2003). Preliminary checklist of *Agaricales* from Croatia. IV. Families *Bolbitiaceae*, *Coprinaceae*, *Entolomataceae* and *Pluteaceae*. *Mycotaxon* 87: 283–309.
- Tkalčec Z, **Mešić A** (2003) Preliminary checklist of *Agaricales* from Croatia. III. Families *Boletaceae*, *Gomphidiaceae* and *Paxillaceae*. *Mycotaxon* 87: 255–282.
- Tkalčec Z, **Mešić A** (2003) Preliminary checklist of *Agaricales* from Croatia. V. Families *Crepidotaceae*, *Russulaceae* and *Strophariaceae*. *Mycotaxon* 88: 279–314.
- **Mešić A**, Tkalčec Z (2002) Preliminary checklist of *Agaricales* from Croatia. II. Families *Agaricaceae*, *Amanitaceae*, *Cortinariaceae* and *Hygrophoraceae*. *Mycotaxon* 83: 453–502.
- Tkalčec Z, **Mešić A** (2002) Preliminary checklist of *Agaricales* from Croatia. I. Families *Pleurotaceae* and *Tricholomataceae*. *Mycotaxon* 81: 113–176.

SCIENTIFIC AND EXPERT PROJECTS

Scientific and expert projects

Participated in 42 scientific and expert projects, 11 as a project leader and 31 as a project associate.

Project leader:

- Enhancement of Croatian forest ecosystem services through assessment of fungal diversity based on DNA barcoding - ForFungiDNA (IP-2018-01-1736); scientific research project of Croatian Science Foundation (2018-2022)
- The ecophysiological status of non-typical truffle mycorrhizal plants and their importance for the survival and dispersal of truffles; bilateral research project funded by Croatian Ministry of Science and Education and Slovenian Research Agency (2020-2021).
- Biodiversity of Croatian Fungi; long-term project of Croatian Mycological Society (1999-2019).
- Biodiversity of Fungi in Mljet NP; Public Institution Mljet NP (2017-2018).
- Biodiversity of Fungi in Forest Habitats of Plitvička jezera NP; Public Institution Plitvička jezera NP (2014-2015).
- Biodiversity of Fungi in Mljet NP; Public Institution Mljet NP (2010-2011).
- Research of Fungi in Sjeverni Velebit NP - 3rd phase; Public Institution Sjeverni Velebit NP (2006).
- Research of Fungi in Sjeverni Velebit NP - 2nd phase; Public Institution Sjeverni Velebit NP (2004-2005).
- Research of Fungi in Sjeverni Velebit NP ; Public Institution Sjeverni Velebit NP (2003-2004).
- Restoration of the Complex of Three Meadows at the Crossing of Vrhovec and Vidovčica Streets in Zagreb ; Ministry of Environmental Protection and Physical Planning (2002).
- Recording and Mapping of Fungi of the Brač Island; Ministry of Environmental Protection and Physical Planning (2002).

International projects (as collaborator):

- 2020–2025 LIFEPLAN project; >100 collaborators, funded by European Research council (ERC), ERC-2019-SyG - ERC Synergy Grant ID: 856506.
- 2019–, FunAqua Project; 200 collaborators, funded by Estonian University of Life Sciences, University of Tartu, Estonia;
- 2018–, Global Spore Sampling Project (GSSP); funded by Helsinki Institute of Life Science (HiLIFE), <https://www.helsinki.fi/en/researchgroups/spatial-food-web-ecology/research/gssp>.
- 2017–2019, Inventory of biodiversity and conservation status of representative peat bogs on the territory of Montenegro and Croatia; Croatian Ministry of Science and Ministry of Education and Science of Montenegro.

EDITOR IN SCIENTIFIC JOURNALS

Editor in scientific journals

- Sydowia: Vienna, Austria - member of editorial board (2016-2020).
- Mycoasia: member of editorial board (2019-2020)

REVIEW EXPERIENCE

Review experience

Reviewer for 23 internationally peer-reviewed scientific journals (16 included in *Journal Citation Reports* database):

- Plant Biosystems
- Phytotaxa
- European Food Research and Technology
- Mycotaxon
- Chiang Mai Journal of Science
- Biodiversity Data Journal
- Journal Of Fungi (MDPI)
- Microorganisms (MDPI)
- Foods (MDPI)
- Marine Drugs (MDPI)
- Diversity (MDPI)
- Life (MDPI)
- Applied Sciences (MDPI)
- Turkish Journal of Botany
- Sydowia
- Periodicum biologorum
- Current Research in Environmental & Applied Mycology
- Check List
- Czech Mycology
- Mycoasia
- Acta Silvatica et Lignaria Hungarica
- Acta Musei Macedonici Scientiarum Naturalium
- Macedonian Journal of Ecology and Environment

INVITED PUBLIC PRESENTATIONS

Invited public presentations

- 02.10.2017. Fungal conservation activities in Croatia, 2006-2017. International congress on fungal conservation: Fungal Conservation in a Changing Europe (Ohrid, North Macedonia). Organisers: European Mycological Association, International Society for Fungal Conservation, Ss. Cyril and Methodius University (Skopje), Macedonian Mycological Society.
- 10.12.2019. Distribution and ecology of summer truffle (*Tuber aestivum*) in Croatia. Interregional Workshop: Management of truffle plantations and development of mycosylviculture. Project: Innovation Networks for Cork, Resins & Edibles in the Mediterranean Basin (INCREDIBLE). HORIZON 2020 project, Grant No. 774632.

MENTORSHIPS OF STUDENTS

Mentorships of students

Finished mentorship of 1 BSc student, 3 Master thesis (Msc) and 1 doctoral (PhD) thesis:

- Bahun, Vedran (2017). MsC thesis: Bioactive potential of wild edible mushrooms of Croatia. PMF, Zagreb.
- Kušan, Ivana (2015). PhD thesis: Contribution of "vital taxonomy" methods to the *Ascomycota* taxonomy. University of J. J. Strossmayera in Osijek.
- Jambrek, Magdalena (2012). MsC thesis: Distribution of species of the genus *Lactarius* (*Russulales*, *Basidiomycota*) in Croatia . PMF, Zagreb.
- Miličević, Tena (2009) Završni rad, preddiplomski studij (BsC): Ecology, biogeography and taxonomy of the genus *Lactarius* in Croatia. PMF, Zagreb.
- Remenar, Sunčica (2006) MsC thesis: Fungi of the order *Agaricales* (*Basidiomycota*) of Zlarin island. PMF, Zagreb.

Mentorship of researchers/students from abroad:

- Zuzana Egertova (Olomouc, Czechia), status: doctoral student, study stay at Ruđer Bošković Institute, 5 weeks (02.05.–06.06.2018.).

Current mentorships:

- Ivana Kušan, PhD (duration 2018–2022), status: postdoctoral student.
- Magdalena Jambrek Fuellhart, (duration 2018-), status: doctoral student.
- Ana Pošta, (duration 2019-2023), status: doctoral student.