

FIȘĂ DE EVALUARE GENERALĂ A STANDARDELOR UNIVERSITĂȚII conform metodologiei aprobate de Senatul Universității Nr. 8/27.03.2014

CS III dr. BALAEȘ Tiberius

I. ACTIVITATEA DE CERCETARE

I.1. Articole științifice publicate *in extenso* în reviste cotate *Web of Science*, cu factor de impact

IENASCU I.M.C., BALAEȘ T., PETRE C.V., POP R.O., CATA A., STEFANUT M.N., ALBU P., POENARU M., 2018. Novel N-(2-bromo-phenyl)-2-hydroxy-benzamide derivatives with antifungal activity. *REV.CHIM.(Bucharest)*, **69**(7): 1876-1880. **FI= 1,412 (WOS 2017)**

Punctaj [60 x 1,412 + 25] / 8 = 13,71 puncte

MIHALACHE G., BALAEȘ T., GOSTIN I., ȘTEFAN M., COUTTE F., KRIER F., 2017. Lipopeptides produced by *Bacillus subtilis* as new biocontrol products against fusariosis in ornamental plants. *Environmental Science and Pollution Research*, **25**(30):29784-29793. **FI= 2,80 (WOS 2017)**

Punctaj [60 x 2,8 + 25] / 6 = 32,17 puncte

BALAEȘ T., PETRE C.V., UNGUREANU C., MARDARI C., TĂNASE C., 2017. Ligninolytic enzyme system in ecological adaptation of lignicolous macrofungi. *Applied Ecology and Environmental Research*, **15**(1): 207-224. **FI=0,721 (WOS, 2017)**

Punctaj [60 x 0,721 + 25] / 5 = 13,65 puncte

BOBU E., NICU R., OBROCEA P., ARDELEAN E., DUNCA S., BALAEȘ T., 2016. Antimicrobial properties of coatings based on chitosan derivatives for applications in sustainable paper conservation. *Cellulose Chem. Technol.*, **50**(5-6): 689-699. **FI=0,763 (WOS, 2016)**

Punctaj [60 x 0,763 + 25] / 6 = 11,80 puncte

BALAEȘ T., TĂNASE C., 2016. Basidiomycetes as potential biocontrol agents against nematodes. *Romanian Biotechnological Letter*, **21**(1): 11185-11193. **FI=0,396 (WOS 2016)**

Punctaj [60 x 0,396 + 25] / 2 = 24,38 puncte

IOANID E.G., TĂNASE C., RUSU D., VLAD A.M., CAZACU G., BALAEȘ T., DUNCA S., 2016. Decontamination effects of radio frequency low-temperature plasma on paper-based materials. *Rev. Roum. Chim.*, **61**(6-7): 583-590. **FI=0,246 (WOS 2016)**

Punctaj [60 x 0,246 + 25] / 7 = 5,68 puncte

BUTNARU E., DARIE-NIȚĂ R.N., ZAHARESCU T., BALAEȘ T., TĂNASE C., HITRUC G., DOROFTEI F., VASILE C., 2016. Gamma irradiation assisted fungal degradation of the polypropylene/biomass composites. *Radiation Physics and Chemistry*, **125**: 134-144. **FI= 1,315 (WOS 2016)**

Punctaj [60 x 1,315 + 25] / 8 = 12,99 puncte

UNGUREANU (POPA) C., BALAES T., FAVIER L., TĂNASE C., BAHRIM G., 2015. White-rot fungus implications in clofibric acid biodegradation. *Romanian Biotechnological Letters*, **20**(3): 10388-10395. **FI=0,381 (WOS 2015)**

Punctaj [60 x 0,381 + 25] / 5 = 9,57 puncte

BALAES T., TANASE C., BUTNARIU C.D., 2014. The use of heavy metals in mycoremediation of synthetic dyes. *Central European Journal of Biology*, **9**(7): 659-667. **FI=0,710 (WOS 2014)**

Punctaj [60 x 0,71 + 25] / 3 = 22,53 puncte

DIMA C., COTÂRLEȚ M., BALAEȘ T., BAHRIM G., ALEXE P., DIMA Șt., 2014. Encapsulation of coriander essential oil in beta-cyclodextrin: antioxidant and antimicrobial properties evaluation. *Romanian Biotechnological Letters*, **19**(2): 9128-9140. **FI=0,404 (WOS 2014)**

Punctaj [60 x 0,404 + 25] / 6 = 8,21 puncte

TĂNASE C., ODOCHIAN L., BALAEȘ T., LISĂ G., GHERCA D., PUI A., 2014. Study of thermal behaviour of some edible mushrooms. *Journal of Thermal Analysis and Calorimetry*, **115**: 947-953. **FI=2,042 (WOS 2014)**

Punctaj [60 x 2,042 + 25] / 6 = 24,59 puncte

BALAEȘ T., TĂNASE C., 2013. Optimization of nutritional conditions for the mycoremediation of the synthetic dyes. *Romanian Biotechnological Letters*, **18**(6): 8804-8811. **FI=0,351 (WOS 2013)**

Punctaj [60 x 0,351 + 25] / 2 = 23,03 puncte

PUI A., TĂNASE C., COZMA D.G., BALAEȘ T., 2013. Assessment of macromycetes using fourier Transform Infrared spectroscopy and chemometrics. *Environmental Engineering and Management Journal*, **12**(3): 527-534. **FI=1,258 (WOS 2013)**

Punctaj [60 x 1,258 + 25] / 4 = 25,12 puncte

BALAES T., MANGALAGIU IONEL I., TANASE C., 2013. Lignicolous macromycetes: potential candidates for bioremediation of synthetic Dyes. *Revista de Chimie*, **64**(9): 930-935. **FI=0,677 (WOS 2013)**

Punctaj [60 x 0,677 + 25] / 3 = 21,87 puncte

VLAD S., TĂNASE C., MACOCINSCHI D., CIOBANU C., BALAES T., FILIP D., GOSTIN I.N., GRĂDINARU L.M., 2012. Antifungal behaviour of polyurethane membranes with zinc oxide nanoparticles. *Digest Journal of Nanomaterials and Biostructures*, **7**(1): 51-58. **FI=1,092 (WOS 2012)**

Punctaj [60 x 1,092 + 25] / 8 = 11,31 puncte

MACOCINSCHI D., FILIP D., TANASE C., VLAD S., OPREA A., BALAES T., 2011. The relationship of some polyurethane biocomposites against *Penicillium chrysogenum* and *Aspergillus brasiliensis*. *Optoelectronics and Advanced Materials-Rapid Communications*, **5**(5-6): 677-681. **FI= 0,304 (WOS 2011)**

Punctaj [60 x 0,304 + 25] / 6 = 7,21 puncte

Total punctaj categorie = 267,82 puncte

I.3. Articole științifice publicate *in extenso* în reviste cotate BDI

COPOȚ O., BALAEȘ T., BÎRSAN C., PETRE C.V., COJOCARIU A., TĂNASE C., 2018. Climatic predictors influences VFWD fungal diversity through dominant tree' ecology in beech forests in the North-Eastern Romania. *Journal of Plant Development*, **25**: 119-134.

Punctaj: 15 / 6 = 2,5 puncte

COPOȚ O., MARDARI C., BALAEȘ T., PETRE C.V., BÎRSAN C., TĂNASE C., 2016. Spatial distribution of some ectomycorrhizal fungi (Russulaceae, Fungi, Basidiomycota) in forest

habitats from the North-East Region (Romania). *Journal of Plant Development*, **23**: 211-225.

Punctaj: 15 / 6 = 2,5 puncte

BALAEȘ T., BOROS L., ȘESAN T.E., TĂNASE C., **2015**. Basidiomycete-based method for biocontrol of phytopathogenic nematodes. *Journal of Plant Development*, **22**: 83-94.

Punctaj: 15 / 4 = 3,75 puncte

MARDARI C., DĂNILĂ D., BÎRSAN C., BALAEȘ T., ȘTEFANACHE C., TĂNASE C., **2015**. Plant communities with *Arnica montana* in natural habitats from the central region of Romanian Eastern Carpathians. *Journal of Plant Development*, **22**: 95-105.

Punctaj: 15 / 6 = 2,5 puncte

DUNCA S.I., TĂNASE C., PĂDURARIU C., BALAEȘ T., ARDELEAN E., MELNICIUC PUICA N., **2014**. Study of the contaminating microbiota of old paper supports. *European Scientific Journal*, **3**: 237-251.

Punctaj: 15 / 6 = 2,5 puncte

PETRE C.V., BALAEȘ T., TĂNASE C., **2014**. Lignicolous basidiomycetes as valuable biotechnological agents. *Memoirs of the Scientific Section of Romania Academy - Biology*, **37**: 37-62.

Punctaj: 15 / 3 = 5,0 puncte

BALAEȘ T., TĂNASE C., **2012**. Description of *in vitro* cultures for some spontaneous lignicolous basidiomycetes species. *An. Științ. Al. I. Cuza Iași Sect. II a. Biol. Veget.*, **58**(2): 19-29.

Punctaj: 15 / 2 = 7,5 puncte

BALAEȘ T., TĂNASE C., **2012**. Culture description of some spontaneous lignicolous macromycetes species. *J. Plant Develop.*, **19**: 83-98.

Punctaj: 15 / 2 = 7,5 puncte

BALAEȘ T., TĂNASE C., **2011**. Interrelations between the mycorrhizal systems and soil organisms, *J. Plant Develop.*, **18**: 55-69.

Punctaj: 15 / 2 = 7,5 puncte

Total punctaj categorie = 41,25 puncte

I.4. Articole științifice publicate *in extenso* în volumele conferințelor

C. alte articole

BALAEȘ T., TĂNASE C., **2011**. Izolate fungice cu rol în remedierea coloranților sintetici, în volumul *Lucrările Simpozionului Internațional Realizările științifice ale rezervației la 40 ani de activitate* (ISBN: 978-9975-67-799-8), Editura Știința, Chișinău: 34-36.

Punctaj: 5 / 2 = 2,5 puncte

Total punctaj categorie = 2,5 puncte

I.6. Cărți științifice publicate / capitole de carte

BALAEȘ T., PETRE C.V., TĂNASE C., **2018**. Ecological adaptations of white-rot fungi: a solution to human caused problems? În GORAWALA P., MANDATHRI S., *Agricultural Research Updates*, VOL. **22**, Nova Science Publisher, New York, 1-44 pp

Punctaj: (70 x 44/100) / 3 = 10,27 puncte

Total punctaj categorie = 10,27 puncte

I.9. Contracte de cercetare științifică în instituții academice

I.9.2. contract național, membru în echipa de cercetare

Program PN-II-CT-RO-FR-2014-2, Cooperări Bilaterale, Brâncuși, Proiect nr. 33/2014: „Aplicații ale unor biomolecule cu proprietăți antifungice în protecția plantelor (Biopat)”, responsabil partener: Conf. dr. Marius ȘTEFAN;

Punctaj: $50 \times (31500 \text{ lei} / 500.000) / 6 = 0,52 \text{ puncte}$

Program PARTENERIATE - Proiecte Colaborative de Cercetare Aplicativă PN-II-PT-PCCA-2013-4 nr. 74/2014: “Dezvoltarea unui model functional de valorificare sustenabila a diversitatii genetice si fitochimice a populatiilor naturale de Arnica montana L. din nordul Carpatilor Orientali” (ARMOREC), responsabil partener: prof. univ. dr. Cătălin TĂNASE;

Punctaj: $50 \times (115.000 \text{ lei} / 500.000) / 4 = 2,87 \text{ puncte}$

Program CAPACITĂȚI - Modulul III – Cooperări Bilaterale, Proiect nr. 694/2013: „Evaluarea și caracterizarea resurselor genetice la specii de Lamiaceae cu potențial antiinflamator, în vederea conservării in situ și ex situ” (EGRE-LAIC), responsabil partener: prof. univ. dr. Cătălin TĂNASE;

Punctaj: $50 \times (8040 \text{ lei} / 500.000) / 4 = 0,20 \text{ puncte}$

Proiect PCCA - tip 2- nr. 221/2012 „Dezvoltarea de materiale neconvenționale și a unei tehnici de tratament în plasmă rece pentru soluții sustenabile în conservarea patrimoniului pe suport de hârtie (PAPHERCON)”, responsabil partener Conf. dr. Simona DUNCA;

Punctaj: $50 \times (461.500 \text{ lei} / 500.000) / 4 = 11,54 \text{ puncte}$

Total punctaj categorie = 15,13 puncte

I.12. Citări și recenzii ale lucrărilor științifice

A. reviste de specialitate din străinătate

BALAES T., PETRE C.V., UNGUREANU C., MARDARI C., TĂNASE C., 2017. Ligninolytic enzyme system in ecological adaptation of lignicolous macrofungi. *Applied Ecology and Environmental Research*, **15**(1): 207-224.

Citare:

LI H., OSTERMANN A., KARUNARATHNA S.C., XU J., HYDE K.D., MORTIMER P.E. **2018.** The importance of plot size and the number of sampling seasons on capturing macrofungal species richness. *Fungal Biology*, 122(7): 692-700 **WOS, Scopus, Google Scholar FI=2,571 (WOS 2017)**

Punctaj: $(10 + 20 \times 2,571) / 5 = 12,28 \text{ puncte}$

GLAZUNOVA O.A., SHAKHOVA N.V., PSURTSEVA N.V., MOISEENKO K.V., KLEIMENOV S.Y., FEDOROVA T.V. **2018.** White-rot basidiomycetes *Junghuhnia nitida* and *Steccherinum bourdotii*: Oxidative potential and laccase properties in comparison with *Trametes hirsuta* and *Coriolopsis caperata*. *PLoS ONE*, 13(6):, DOI: 10.1371/journal.pone.0197667 **WOS, Scopus, Google Scholar FI=2,766 (WOS 2017)**

Punctaj: $(10 + 20 \times 2,766) / 5 = 13,06 \text{ puncte}$

CEBALLOS S.J., YUA C., CLAYPOOL J.T., SINGER S.W., SIMMONS B.A., THELENCE M.P., SIMMONS C.W., GHEYNST J.S.V., **2017.** Development and characterization of a thermophilic, lignin degrading microbiota. *Process Biochemistry*, 63: 193-203. **WOS, Scopus, Google Scholar, FI=2,616 (WOS 2017)**

Punctaj: $(10 + 20 \times 2,616) / 5 = 12,46 \text{ puncte}$

MIHALACHE G., **BALAEȘ T., GOSTIN I., ȘTEFAN M., COUTTE F., KRIER F., 2017.** Lipopeptides produced by *Bacillus subtilis* as new biocontrol products against fusariosis in ornamental plants. *Environmental Science and Pollution Research*, **25**(30):29784-29793.

Citări:

ABDALLAH B.D, SLIM T., HOUDA G., ET AL. **2018**. Lipopeptides from *Bacillus amyloliquefaciens* strain 32a as promising biocontrol compounds against the plant pathogen *Agrobacterium tumefaciens*. *Environmental Science And Pollution Research*, 25(36): 36518-36529 **WOS, Google Scholar FI=2,800 (WOS, 2017)**

Punctaj: $(10 + 20 \times 2,8) / 6 = 11,00$ puncte

LUNA-BULBARELA A., TINOCO-VALENCIA R., CORZO G., KAZUMA K., KONNO K., GALINDO E., SERRANO-CARREÓN L., **2018**. Effects of bacillomycin D homologues produced by *Bacillus amyloliquefaciens* 83 on growth and viability of *Colletotrichum gloeosporioides* at different physiological stages. *Biological Control*, 127: 145-154 **Scopus FI= 2,112 (WOS 2017)**

Punctaj: $(10 + 20 \times 2,112) / 6 = 8,71$ puncte

PUPIN M., FLISSI A., JACQUES P., LECLERE, V. **2018**. Bioinformatics tools for the discovery of new lipopeptides with biocontrol applications. *European Journal of Plant Pathology*. Article in Press **Scopus, WOS, Google Scholar FI= 1,466 (WOS 2017)**

Punctaj: $(10 + 20 \times 1,466) / 6 = 6,55$ puncte

BOBU E., NICU R., OBROCEA P., ARDELEAN E., DUNCA S., BALAEŞ T., **2016**. Antimicrobial properties of coatings based on chitosan derivatives for applications in sustainable paper conservation. *Cellulose Chem. Technol.*, **50**(5-6): 689-699.

Citări:

TYAGI P., MATHEW R., OPPERMAN C., JAMEEL H., GONZALEZ R., LUCIA L., HUBBE M., PAL L., **2018**. High-Strength Antibacterial Chitosan–Cellulose Nanocrystal Composite Tissue Paper. *Langmuir*, DOI: 10.1021/acs.langmuir.8b02655 **Google Scholar FI=3,789 (WOS 2017)**

Punctaj: $(10 + 20 \times 3,789) / 6 = 14,30$ puncte

ARIAFAR A.A., AFSHARPOUR M., SAMANIAN K., **2017**. Use of TiO₂/chitosan nanoparticles for enhancing the preservative effects of carboxymethyl cellulose in paper-art-works against biodeterioration. *International Biodeterioration & Biodegradation*, <https://doi.org/10.1016/j.ibiod.2017.04.025>. **WOS, Google Scholar FI=3,562 (WOS 2017)**

Punctaj: $(10 + 20 \times 3,562) / 6 = 13,54$ puncte

CIOLACU F., NICU R., BALAN T., BOBU E., **2017**. Chitosan for paper sizing. *BioResources*, 12(1): 735-747. **WOS, Google Scholar FI=1,202 (WOS, 2017)**

Punctaj: $(10 + 20 \times 1,202) / 6 = 5,67$ puncte

ZHAO J., CAI Y., **2016**. Measuring moisture content of wood using transient hot-wire technique. *BioResource*, 12(1): 749-759. **Google Scholar FI=1,321 (WOS 2016)**

Punctaj: $(10 + 20 \times 1,321) / 6 = 6,07$ puncte

BALAEŞ T., TĂNASE C., **2016**. Basidiomycetes as potential biocontrol agents against nematodes. *Romanian Biotechnological Letter*, **21**(1): 11185-11193.

Citare:

SOARES F.E.D.F., SUFIATE B.L., DE QUEIROZ J.H. 2018. Nematophagous fungi: Far beyond the endoparasite, predator and ovicidal groups. *Agriculture and Natural Resources*, 52(1): 1-8 **Scopus, Google Scholar**

Punctaj: $(10 + 20 \times 0) / 2 = 5,00$ puncte

DE MATTOS-SHIPLEY, K.M.J., FORD, K.L., ALBERTI, F., (...), BAILEY, A.M., FOSTER, G.D., **2016**. The good, the bad and the tasty: The many roles of mushrooms. *Studies in Mycology*, 85, pp. 125-157 (**Scopus, WOS, Google Scholar FI=14,00 (WOS 2016)**)

Punctaj: $(10 + 20 \times 14,0) / 2 = 145,00$ puncte

IOANID E.G., TĂNASE C., RUSU D., VLAD A.M., CAZACU G., BALAEŞ T., DUNCA S., **2016**. Decontamination effects of radio frequency low-temperature plasma on paper-based materials. *Rev. Roum. Chim.*, **61**(6-7): 583-590.

Citare:

IOANID E.G., FRUNZĂ V., RUSU D.E., VLAD A.M., SAVIN G., SAVIN C., POPESCU C.-M., **2018**. Behavior of historical printing inks on paper in high-frequency cold plasma discharges. *IEEE Transactions on Plasma Science*, 1 – 5, DOI: 10.1109/TPS.2018.2873066 **Google scholar FI= 1,253 (WOS 2017)**

Punctaj: $(10 + 20 \times 1,253) / 7 = 5,01$ puncte

BUTNARU E., DARIE-NIȚĂ R.N., ZAHARESCU T., **BALAEȘ T.**, TĂNASE C., HITRUC G., DOROFTEI F., VASILE C., **2016**. Gamma irradiation assisted fungal degradation of the polypropylene/biomass composites. *Radiation Physics and Chemistry*, **125**: 134-144.

Citări:

DE BOMFIM A.S.C., MACIEL M.M.D., VOORWALD H.J.C., BENINI K.C.C.D.C., DE OLIVEIRA D.M., CIOFFI M.O.H., **2019**. Effect of different degradation types on properties of plastic waste obtained from espresso coffee capsules. *Waste Management*, 83: 123-130 **Scopus, Google Scholar FI= 4,723 (WOS 2017)**

Punctaj: $(10 + 20 \times 4,723) / 8 = 13,06$ puncte

AJIBADE O.A., AGUNSOYE J.O., OKE S.A. **2018**. Experimental investigation of micro-hardness behaviour of dual blended reinforced polymer matrix composites of five selected fortifiers. *European Journal of Materials Science And Engineering*, 3(2): 08-32 **Google Scholar**

Punctaj: $(10 + 20 \times 0) / 8 = 1,25$ puncte

ZHOU H., WANG L., LIU Y. **2018**. Physico-chemical oxidative cleavage strategy facilitates the degradation of recalcitrant crystalline cellulose by cellulases hydrolysis. *Biotechnology for Biofuels*, 11(1): 16 **WOS, Scopus, Google Scholar FI= 5,497 (WOS 2017)**

Punctaj: $(10 + 20 \times 5,497) / 8 = 14,99$ puncte

HERNÁNDEZ-AGUIRRE O.A., GÓMEZ-ESPINOSA R.M., **2017**. Tratamiento biológico-ultrasónico nueva alternativa en la degradación de polipropileno. *Rev. Iberoam. Polímeros*, 18(2): 115-126 **Google Scholar**

Punctaj: $(10 + 20 \times 0) / 8 = 1,25$ puncte

MOUACI, S., SAIDI, M., SAIDI-AMROUN, N., **2017**. Oxidative degradation and morphological properties of gamma-irradiated isotactic polypropylene films. *Micro and Nano Letters*, 12 (7), pp. 478-481 **WOS, Scopus, Google Scholar FI= 0,841 (WOS 2017)**

Punctaj: $(10 + 20 \times 0,841) / 8 = 3,35$ puncte

UNGUREANU (POPA) C., **BALAEȘ T.**, FAVIER L., TĂNASE C., BAHRIM G., **2015**. White-rot fungus implications in clofibric acid biodegradation. *Romanian Biotechnological Letters*, **20**(3): 10388-10395.

Citări:

ASIF M.B., HAI F.I., HOU H., PRICE W.E., NGHIEMA L.D., **2017**. Impact of wastewater derived dissolved interfering compounds on growth, enzymatic activity and trace organic contaminant removal of white rot fungi – A critical review. *Journal of Environmental Management*, 201(1): 89-109. **Google Scholar FI= 4,010 (WOS 2017)**

Punctaj: $(10 + 20 \times 4,01) / 5 = 18,04$ puncte

POPA UNGUREANU C., FAVIER L., BAHRIM G., **2016**. Screening of soil bacteria as potential agents for drugs biodegradation: A case study with clofibric acid. *Journal of Chemical Technology and Biotechnology*, 91(6): 1646-1653 (**Scopus, Google Scholar FI= 3,135 (WOS 2016)**)

Punctaj: $(10 + 20 \times 3,135) / 5 = 14,54$ puncte

MARDARI C., DĂNILĂ D., BÎRSAN C., **BALAEȘ T.**, ȘTEFANACHE C., TĂNASE C., **2015**. Plant communities with *Arnica montana* in natural habitats from the central region of Romanian Eastern Carpathians. *Journal of Plant Development*, **22**: 95-105.

Citări:

SUGIER P., KOŁOS A., WOŁKOWYCKI D., SUGIER D., PLAK A., SOZINOV O., **2018**. Evaluation of species inter-relations and soil conditions in *Arnica montana* L. habitats: a step towards active protection of endangered and high-valued medicinal plant species in NE Poland. *Acta Societatis Botanicorum Poloniae*, 87(3):3592 (**Google Scholar FI= 0,876 (WOS 2017)**)

Punctaj: $(10 + 20 \times 0,876) / 6 = 4,59$ puncte

MAURICE T., MATTHIES D., MULLER S., COLLING G. **2016**. Genetic structure of colline and montane populations of an endangered plant species. *AoB PLANTS*, 8: 57 (**Google Scholar FI= 2,238 (WOS 2016)**)

Punctaj: $(10 + 20 \times 2,238) / 6 = 9,13$ puncte

DUNCA S.I., TĂNASE C., PĂDURARIU C., **BALAEȘ T.**, ARDELEAN E., MELNICIUC PUICA N., **2014**. Study of the contaminating microbiota of old paper supports. *European Scientific Journal*, (ediție specială, ISSN: 1857 – 7881), **3**: 237-251.

Citări:

CORONADO-RUIZ C., AVENDAÑO R., ESCUDERO-LEYVA E., CONEJO-BARBOZA G., CHAVERRI P., CHAVARRÍA M. **2018**. Two new cellulolytic fungal species isolated from a 19th-century art collection. *Scientific Reports*, 8: 7492 **Google Scholar FI= 4,122 (WOS 2017)**

Punctaj: $(10 + 20 \times 4,122) / 6 = 15,41$ puncte

OKPALANOZIE O.E., ADEBUSOYE S.A., TROIANO F., CATTÒ C., ILORI M., CAPPITELLI F. **2017**. Assessment of indoor air environment of a Nigerian museum library and its biodeteriorated books using culture-dependent and -independent techniques. *International Biodeterioration & Biodegradation*, 132: 139-149. **Google Scholar FI=3,562 (WOS 2017)**

Punctaj: $(10 + 20 \times 3,562) / 6 = 13,54$ puncte

PESTOV GV., GLAZUNOVA A.V., GALKINA E.B., SIDYKIN E.B., TARASOVA M.B. **2017**. Survey of influence of thermal treatment and micromedical biodestructure over an archived document. *International Scientific News*, 22: 102-104.

Punctaj: $(10 + 20 \times 0) / 6 = 1,67$ puncte

PETRE C.V., **BALAEȘ T.**, TĂNASE C., **2014**. Lignicolous basidiomycetes as valuable biotechnological agents. *Memoirs of the Scientific Section of Romania Academy - Biology*. **37**: 37-62.

Citare:

KARADELEV M., RUSEVSKA K., VENTURELLA G., GARGANO M.L., **2017**. An insight into the presence of lignicolous fungi in Sicily (southern Italy). *Fl. Medit.*, 27: 99-110 **Google Scholar**

Punctaj: $(10 + 20 \times 0) / 3 = 3,33$ puncte

SITINJAK R.R. **2017**. the response of growth on shoot cuttings and stem cuttings of Citrus amblycarpa L. after giving Atonik. *Research Journal of Pharmaceutical, Biological and Chemical Sciences*, 8(2): 872-881 **Google Scholar**

Punctaj: $(10 + 20 \times 0) / 3 = 3,33$ puncte

DIMA C., COTÂRLEȚ M., **BALAEȘ T.**, BAHIM G., ALEXE P., DIMA Șt., **2014**. Encapsulation of coriander essential oil in beta-cyclodextrin: antioxidant and antimicrobial properties evaluation. *Romanian Biotechnological Letters*, **19**(2): 9128-9140.

Citări:

BENALI N., BEN DAOUD H., FARHATI M., TIZAOUI C., ROMDHANE M., **2018**. Study of essential oils adsorption on three phosphate fertilizers. *Chemical Industry & Chemical Engineering Quarterly*., 24(3): 251-266. **Google Scholar FI= 0,944 (WOS 2017)**

Punctaj: $(10 + 20 \times 0,944) / 6 = 4,81$ puncte

BENYACOB A., SKENDER A., BOUTEMAK K., HADJ-ZIANE-ZAFOUR A., **2018**. Inclusion complexes of Melia azedarach L. seed oil/ β -cyclodextrin polymer: preparation and characterization. *Chemical Papers*, DOI: 10.1007/s11696-018-0600-x **Google Scholar FI= 0,963 (WOS 2017)**

Punctaj: $(10 + 20 \times 0,963) / 6 = 4,88$ puncte

KFOURY M., AUEZOVA L., GREIGE-GERGES H., FOURMENTIN S. **2018**. Encapsulation in cyclodextrins to widen the applications of essential oils. *Environmental Chemistry Letters*, Article in Press **Scopus, Google Scholar FI= 3,125 (WOS 2017)**

Punctaj: $(10 + 20 \times 3,125) / 6 = 12,08$ puncte

GIRARDI N.S., PASSONE M.A., GARCÍA D., NESCI A., ETCHEVERRY M. **2018**. Microencapsulation of *Peumus boldus* essential oil and its impact on peanut seed quality preservation. *Industrial Crops and Products*, 114: 108-114 **Scopus, WOS FI= 3,849 (WOS 2017)**

Punctaj: $(10 + 20 \times 3,849) / 6 = 14,50$ puncte

RAKMAI J., CHEIRSILP B., MEJUTO J.C., SIMAL-GÁNDARA J., TORRADO-AGRASAR A., **2018**. Antioxidant and antimicrobial properties of encapsulated guava leaf oil in hydroxypropyl-beta-cyclodextrin. *Industrial Crops and Products*, 111: 219-225, **Scopus, Google Scholar FI= 3,849 (WOS 2017)**

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OTLEWSKA A, KRAKOVÁ L., PANGALLO D., **2016**. *Potential of culture-dependent and molecular ethods in the biodeterioration study of historical paper-based materials* În: Gutarowska Beata, *A modern approach to biodeterioration assessment and the disinfection of historical book collections*. Arden Prepress Studio, Łódź, 43-55. **Google Scholar**

Punctaj: 50 / 6 = 8,33 puncte

VLAD S., TĂNASE C., MACOCINSCHI D., CIOBANU C., **BALAEȘ T.**, FILIP D., GOSTIN I.N., GRĂDINARU L.M., **2012**. Antifungal behaviour of polyurethane membranes with zinc oxide nanoparticles. *Digest Journal of Nanomaterials and Biostructures*, **7**(1): 51-58.

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JAMPÍLEK J., KRÁĽOVÁ K. **2018**. *Benefits and Potential Risks of Nanotechnology Applications in Crop Protection*. In: ABD-ELSALAM K., PRASAD R. (Ed.) *Nanobiotechnology Applications in Plant Protection. Nanotechnology in the Life Sciences*. Springer, Cham **Google Scholar**

Punctaj: 50 / 8 = 6,25 puncte

CIOBANU C., GRADINARU R.V., **2017**. *Recent Developments in ZnO–Polyurethane Nanomaterials* In: Aflori M. *Intelligent Polymers for Nanomedicine and Biotechnologies*, CRC Press, Boca Raton **Google Scholar**

Punctaj: 50 / 8 = 6,25 puncte

VLAD S., GRADINARU L.M., GRADINARU R.V., CIOBANU C. **2017**. *Recent developments in ZnO-polyurethane nanomaterials* (Book Chapter). *Intelligent Polymers for Nanomedicine and Biotechnologies*, First Edition, pp. 45-64 **Scopus**

Punctaj: 50 / 8 = 6,25 puncte

AGNIHOTRI, S., DHIMAN, N.K., **2017**. Development of nano-antimicrobial biomaterials for biomedical applications. *Advanced Structured Materials*, 66, pp. 479-545 **WOS, Scopus, Google Scholar**

Punctaj: 50 / 8 = 6,25 puncte

SELVARAJ A.S., RAJENDRAN M. **2016**. *Antimicrobial nanomaterials for wound dressings* (Book Chapter). *Nanomedicine and Tissue Engineering: State of the Art and Recent Trends*, pp. 435-492 **Scopus, WOS**

Punctaj: 50 / 8 = 6,25 puncte

MACOCINSCHI D., FILIP D., TANASE C., VLAD S., OPREA A., **BALAEȘ T.**, **2011**. The relationship of some polyurethane biocomposites against *Penicillium chrysogenum* and *Aspergillus brasiliensis*. *Optoelectronics and Advanced Materials-Rapid Communications*, **5**(5-6): 677-681.

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SHAH Z.U., **2013**. *Microbial Degradation Of Polyester Polyurethane*. Teză de doctorat, Universitatea Quaid-i-Azam University **Google Scholar**

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BALAEȘ T., TĂNASE C., **2011**. Interrelations between the mycorrhizal sistems and soil organisms, *J. Plant Develop.*, **18**: 55-69.

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GARG N., SINGH S., KASHYAP L. **2017**. *Arbuscular mycorrhizal fungi and heavy metal tolerance in plants: an insight into physiological and molecular mechanisms*. IN: VARMA A., PRASAD R., TUTEJA N. (ED.) *Mycorrhiza - nutrient uptake, biocontrol, ecorestoration*. Springer, Cham, DOI: 10.1007/978-3-319-68867-1_4 **Google Scholar**

Punctaj: 50 / 2 = 25,0 puncte

NURBAITY A., TRINURANI SOFYAN E., HAMDANI J.S., 2017. Responses of potato (*Solanum tuberosum*) to *Glomus sp.* combined with *Pseudomonas diminuta* at different rates of npk fertilizers. *Kne Life Sciences / 2nd International Conference On Sustainable Agriculture And Food Security: A Comprehensive Approach (Icsafs)*, 102-109 **Google Scholar**

Punctaj: 50 / 2 = 25,0 puncte

PRIYADHARSINI P., ROJAMALA K., KOSHILA R. RAVI, MUTHURAJA R., NAGARAJ K., MUTHUKUMAR T., 2016. *Mycorrhizosphere: the extended rhizosphere and its significance*, ÎN: CHOUDHARY D.K. ET AL. (EDS.), *plant-microbe interaction: an approach to sustainable agriculture*, Springer Nature Singapore Pte Ltd., 97-124 **Google Scholar**

Punctaj: 50 / 2 = 25,0 puncte

Total punctaj categorie = 1029,06 puncte

I.19. Participări la manifestări științifice

A. conferință internațională

8th Annual International Symposium on Agriculture, 13-16 iulie 2015, Atena, Grecia – raportor / moderator secție.

Punctaj: 10,00 puncte

B. conferință națională

Simpozionul Științific „*Conservarea diversității plantelor in situ și ex situ*”, Ediția a IX-a, 22-25 septembrie 2016, Iași. – membru comitet organizare.

Punctaj: 5,00 puncte

Total punctaj categorie = 15,00 puncte

II. ACTIVITATEA DIDACTICĂ

II.3. materiale suport de curs, seminar, lucrări practice și programe analitice detaliate

Am pregătit în perioada 2011-2018 în *Laboratorul didactic de micologie și fitopatologie* materiale didactice destinate lucrărilor practice de *Sistematica criptogamelor* cu studenții de la ciclul de licență, specializarea Biologie: preparate microscopice permanente, material biologic formolizat sau erborizat, coli ierbar, ciuperci liofilizate etc.

Punctaj: 10,00 puncte

Am pregătit culturi fungice și materiale destinate seminarelor de *Bioconversii microbiene*, ciclul de master, specializarea *Biotehnologii microbiene și celulare*.

Punctaj: 10,00 puncte

Total punctaj categorie = 20,00 puncte

II.4. organizare de aplicații și practică de specialitate

Aplicații practice cu studenții la ciclul de master, specializările *Consiliere de mediu* și *Conservarea biodiversității*, în Parcul Național Munții Călimani, în anii 2017 și 2018.

Punctaj: 5 x 2 = 10,00 puncte

Practică de specialitate cu studenții la ciclul de licență, specializările *Biologie* și *Ecologia și protecția mediului*, în habitate și arii protejate din județul Iași, 2017 și 2018.

Punctaj: 5 x 2 = 10,00 puncte

Total punctaj categorie = 20,00 puncte

CRITERII	DESCRIPTORI	PUNCTAJ
I. ACTIVITATEA DE CERCETARE (70%)	I.1. Articole științifice publicate in extenso în reviste cotate Web of Science, cu factor de impact	267,82
	I.3. Articole științifice publicate in extenso în reviste cotate BDI	41,25
	I.4. Articole științifice publicate in extenso în volumele conferințelor C. alte articole	2,50
	I.6. Cărți științifice publicate / capitole de carte	10,27
	I.9.2. contract național, membru în echipa de cercetare	15,13
	I.12. Citări și recenzii ale lucrărilor științifice A. reviste de specialitate din străinătate	788,61
	I.12. Citări și recenzii ale lucrărilor științifice B. reviste de specialitate din țară	36,73
	I.12. Citări și recenzii ale lucrărilor științifice C. monografii academice, tratate, cărți din străinătate	203,72
	I.19. Participări la manifestări științifice A. conferință internațională	10,00
	I.19. Participări la manifestări științifice B. conferință națională	5,00
	TOTAL PONDERAT	966,72
II. ACTIVITATEA DIDACTICĂ (30%)	II.3. materiale suport de curs, seminar, lucrări practice și programe analitice detaliate	20,00
	II.4. organizare de aplicații și practică de specialitate	20,00
	TOTAL PONDERAT	12,00
TOTAL PUNCTAJ		978,72

14.01.2019

Tiberius BALAEȘ