

**Marian PETRE, Ph.D.**

**LIST OF PUBLICATIONS**

**a. List of the relevant publications**

1. **PETRE, M.**, TEODORESCU, A., 2012. Biotechnology of Agricultural Wastes Recycling Through Controlled Cultivation of Mushrooms. In: *Advances in Applied Biotechnology* (M. Petre Editor), InTech Open Access Publisher, p. 3-23 (ISBN: 978-953-307-820-5)
2. **PETRE, M.**, TEODORESCU, A., GIOSANU., D, BEJAN, C., 2012. Enhanced Cultivation of Mushrooms on Organic Wastes from Wine-making Industry. *Journal of Environmental Protection and Ecology*, **13(3)**:1488-1493 (ISSN: 1311-5065)
3. **PETRE, M.**, TEODORESCU, A., NICOLESCU, A., DOBRE, M., GIOSANU, D., 2012. Biotechnology of Winery and Vineyard Wastes Recycling by Controlled Cultivation of Mushrooms in Robotic System. *Journal of Environmental Protection and Ecology*, **13(3)**:1493-1497 (ISSN: 1311-5065)
4. **PETRE, M.**, NICOLESCU, A., DOBRE, M., 2012. Fully Controlled Cultivation of Edible Mushrooms in Safety System to Protect the Environment. *Journal of Environmental Protection and Ecology*, **13(2A)**:1032-1038 (ISSN: 1311-5065)
5. **PETRE, M.**, TEODORESCU, A. ANDRONESCU, A., 2012. Food Biotechnology to Produce High Nutritive Biomass by Submerged Fermentation of Edible Mushrooms. *Journal of Environmental Protection and Ecology*, **13(2)**:579-585 (ISSN: 1311-5065)
6. **PETRE, M.**, TEODORESCU, A., NICOLESCU, A., DOBRE, M., MENCINICOPSCHI, GH., 2012. Biotechnological model to get ecological mushroom products in food safety system. *Journal of Environmental Protection and Ecology*, **13(1)**:77-86 (ISSN: 1311-5065)
7. **PETRE, M.**, TEODORESCU, A., TULUCA, E., BEJAN, C., ANDRONESCU, A., 2010. Biotechnology of Mushroom Pellets Producing by Controlled Submerged Fermentation. *Romanian Biotechnological Letters*, **15(2)**: 50-56 (ISSN: 1224-5984)
8. **PETRE, M.**, TEODORESCU, A., 2011. Recycling of Vineyard and Winery Wastes as Nutritive Composts for Edible Mushroom Cultivation. Proc. of the International Conference on Advances in Materials and Processing Technologies AMPT 2010, American Institute of Physics, p. 1539-1545 (ISBN: 978-0-7354-0871-5)
9. **PETRE, M.**, NICOLESCU, A., DOBRE, M., 2010. Patent RO 00123132 for the invention: "Proceeding and installation for cultivation of eatable and medicinal mushrooms"
10. **PETRE, M.**, 2008. Patent RO 00121678 for the invention: „Biotechnological proceeding for *in vitro* cultivation of *Lentinula edodes* and bioproduct with cu immunomodulatory, antitumoral and antiinfectious properties"

**b. Ph.D. Thesis**

Title: "The use of micro-organisms immobilized on radiopolymerized hydrogels for degradation and conversion of plant constituents"

Place: Romanian Academy, Biology Institute of Romanian Academy, 21<sup>st</sup> June 2001

Scientific advisor: Acad. Prof. Dr. Doc. Gheorghe ZARNEA

### **c. Patents and other intellectual property rights**

- 1. PETRE, M, TEODORESCU, A., 2013.** Patent RO 00126277 for the invention: „Proceeding for cultivation of macromycetes belonging to *Grifola frondosa* species and nutritive fungal biomass”
- 2. PETRE, M, TEODORESCU, A., 2013.** Patent RO 00126278 for the invention: „Proceeding for cultivation of macromycetes belonging to *Ganoderma lucidum* species and nutritive fungal biomass”
- 3. PETRE, M, TEODORESCU, A., 2013.** Patent RO 00126279 for the invention: „Proceeding for cultivation of macromycetes belonging to *Lentinus edodes* species and fungal biomass with anti-oxidative role”
- 4. PETRE, M, NICOLESCU, A., DOBRE, M., 2010.** Patent RO 00123132 for the invention: „Proceeding and installation for cultivation of eatable and medicinal mushrooms”
- 5. PETRE, M, 2008.** Patent RO 00121717 for the invention: „Medium of edible mushroom growing and method for its use in intensive culture”
- 6. PETRE, M, 2008.** Patent RO 00121718 for the invention: „Producing method for commercial mycelium of edible mushrooms on substrates consisting of vineyard and winery wastes”
- 7. PETRE, M, 2008.** Patent RO 00121677 for the invention: „Biotechnological proceeding for *in vitro* cultivation of *Cordyceps sinensis* (*Paecilomyces hepiali*) and bioproduct with cu immunomodulatory, antitumoral and antiinfectious properties”
- 8. PETRE, M, 2008.** Patent RO 00121678 for the invention: „Biotechnological proceeding for *in vitro* cultivation of *Lentinula edodes* and bioproduct with cu immunomodulatory, antitumoral and antiinfectious properties”
- 9. PETRE, M, 2008.** Patent RO 00121679 for the invention: „Biotechnological proceeding for *in vitro* cultivation of *Ganoderma lucidum* and bioproduct with cu immunomodulatory, antitumoral and antiinfectious properties”
- 10. PETRE, M, BORDUZ, L., 2006.** Patent RO 00120609 for the invention: „Proceeding for *Pleurotus ostreatus* mushrooms cultivation, in order to get immunostimulants, antitumor and antiinfectious biopreparations”
- 11. PETRE, M, BORDUZ, L., 2006.** Patent RO 00120610, for the invention: „Proceeding of *Grifola frondosa* mushrooms cultivation in order to get immunostimulants, antitumor and antiinfectious biopreparations”

### **d. Books and book chapters**

- 1. PETRE, M., 2013.** Environmental Biotechnology - New Approaches and Prospective Applications, edited by Marian Petre, InTech Open Access Publisher, 301 pages (ISBN: 978-953-51-0972-3)
- 2. PETRE, M., PETRE, V., 2013.** Environmental Biotechnology for Bioconversion of Agricultural and Forestry Wastes into Nutritive Biomass. In: Environmental Biotechnology - New Approaches and Prospective Applications, (M. Petre Editor), InTech Open Access Publisher, p. 3-23 (ISBN: 978-953-51-0972-3)
- 3. PETRE, M., 2013.** Microbial Biotechnology with Applications in Bioremediation. CD Press Publisher, Bucharest, 210 pages (ISBN: 978-606-528-166-0)
- 4. PETRE, M., 2012.** Advances in Applied Biotechnology, edited by Marian Petre, InTech Open Access Publisher, 287 pages (ISBN: 978-953-307-820-5)

5. **PETRE, M.,** TEODORESCU, A., 2012. Biotechnology of Agricultural Wastes Recycling Through Controlled Cultivation of Mushrooms. In: Advances in Applied Biotechnology (M. Petre Editor), InTech Open Access Publisher, p. 3-23 (ISBN: 978-953-307-820-5)
6. **PETRE, M.,** 2012. Handbook for Practical Works in Microbiology. CD Press Publisher, Bucharest, 184 pages (ISBN: 978-606-528-160-8)
7. **PETRE, M.,** PETRE, V., 2012. New Biotechnologies Used in Environmental Protection. CD Press Publisher, Bucharest, 102 pages (ISBN: 978-606-528-159-2)
8. **PETRE, M.,** BEROVIC, M., 2012. Mushroom Biotechnology and Bioengineering, M. Petre and M. Berovic Editors, CD Press, Bucharest, 216 pages (ISBN: 978-606-528-146-2)
9. **PETRE, M.,** TEODORESCU, A., GIOSANU, D., 2012. Advanced Biotechnological Procedures of Mushroom Cultivation. In: Mushroom Biotechnology and Bioengineering, M. Petre and M. Berovic Editors, CD Press, Bucharest, p. 1-21 (ISBN: 978-606-528-146-2)
10. **PETRE, M.,** 2011. Biotechnology for continuous controlled cultivation of edible and medicinal mushrooms. CD Press, Bucharest, 264 pages (ISBN: 978-606-528-116-5)
11. **PETRE, M.,** TEODORESCU, A., 2010. Handbook of submerged cultivation of eatable and medicinal mushrooms. CD Press Publishing House, Bucharest 167 pages (ISBN: 978-606-528-087-8)
12. **PETRE, M.,** TEODORESCU, R.I., 2010. Dictionary of Biotechnology. CD Press Publishing House, București, 304 pages (ISBN: 978-606-528-083-0)
13. **PETRE, M.,** TEODORESCU, A., 2010. Little dictionary of biotechnology. Editura CD Press, București, 250 pagini (ISBN: 978-606-528-086-1)
14. **PETRE, M.,** PETRE, V., 2009. Explanatory Dictionary of Ecology. CD Press Publishing House, București, 351 pages (ISBN: 978-606-528-046-5)
15. **PETRE, M.,** TEODORESCU, A., 2009. Biotechnology of environmental protection, vol. I, 2<sup>nd</sup> Edition, CD Press Publishing House, Bucharest, 270 pages (ISBN: 978-606-528-040-3; 978-606-528-041-0)
16. **PETRE, M.,** TEODORESCU, A., 2009. Biotechnology of environmental protection, vol. II, 2<sup>nd</sup> Edition, CD Press Publishing House, Bucharest, 234 pages (ISBN: 978-606-528-040-3; 978-606-528-042-7)
17. **PETRE, M.,** TEODORESCU, A., 2008. Biotechnology of Environmental Protection. vol. II, CD Press Publishing House, Bucharest, 224 pages (ISBN: 978-973-1760-54-4; 978-973-1760-56-8)
18. **PETRE, M.,** TEODORESCU, A., 2007. Biotechnology of Environmental Protection. vol. I, CD Press Publishing House, Bucharest, 224 pages (ISBN: 978-973-1760-54-4; 978-973-1760-55-1)
19. **PETRE, M.,** 2006. Environmental biotechnology with applications in horticulture and viticulture (M. Petre, co-ordinator). Didactica & Pedagogica Publishing House, Bucharest, 228 pages (ISBN: 973-30-1664-0; 978-973-30-1664-9)
20. **PETRE, M.,** 2006. Role of ecological biotechnology in providing the environmental quality. În: Environmental biotechnology with applications in horticulture and viticulture (M. Petre, co-ordinator). Didactica & Pedagogica Publishing House, Bucharest, p. 9-26 (ISBN: 973-30-1664-0; 978-973-30-1664-9)
21. **PETRE, M.,** 2006. Biotechnological proceedings of fully valorizing of wastes from horticulture and viticulture. In: Environmental biotechnology with applications in horticulture and viticulture (M. Petre, co-ordinator). Didactica & Pedagogica Publishing House, Bucharest, p. 27-64 (ISBN: 973-30-1664-0; 978-973-30-1664-9)
22. **PETRE, M.,** BEJAN, C., TEODORESCU, A., OLTEANU, A., 2006. Biotechnologies of ecological treatment of horticulture and viticulture wastes. In: Environmental

biotechnology with applications in horticulture and viticulture (M. Petre, co-ordinator). Didactica & Pedagogica Publishing House, Bucharest, p. 65-98 (ISBN: 973-30-1664-0; 978-973-30-1664-9)

**23. PETRE, M.,** BEJAN, C., TEODORESCU, A., VIȘOIU, E., 2006. Biotecnologies of protein biomass conversion of winery and vineyard wastes. In: Environmental biotechnology with applications in horticulture and viticulture (M. Petre, co-ordinator). Didactica & Pedagogica Publishing House, Bucharest, p. 99-134 (ISBN: 973-30-1664-0; 978-973-30-1664-9)

**24. PETRE, M.,** 2006. Handbook for using of environmental biotechnology to cultivate edible mushrooms. Didactica & Pedagogica Publishing House, Bucharest, 208 pages (ISBN 973-30-1174-6)

**25. PETRE, M.,** PETRE, V., 2004. Dictionary of Ecology. Printech Publishing House, Bucharest, 253 pages (ISBN 973-652-951-7)

**26. PETRE, M.,** 2004. Cellular Biology. Printech Publishing House, Bucharest, 210 pages (ISBN 973-652-911-8)

**27. PETRE, M.,** BORDUZ, L., 2003. Ciupercile medicinale utilizate în profilaxia și terapia maladiilor umane grave. Editura Printech, București, 64 pagini (ISBN 973-652-758-1)

**28. PETRE, M.,** 2003. Ecotoxicology. Didactica and Pedagogica Publishing House, Bucharest, 201 pages (ISBN 973-30-2788-X)

**29. PETRE, M.,** RADU, G.L., LITESCU, S., CUTAS, F., 2003. Accumulation of Heavy Metal Ions by Using Immobilized Microorganisms. In: G.L. Radu (ed), Actual Trends in Bioanalysis. Printech Publishing House, Bucharest (ISBN 973-652-882-0)

**30. PETRE, M.,** 2002. Sanitary Ecology. Didactica and Pedagogica Publishing House, Bucharest, 207 pages (ISBN 973-30-2283-7)

**31. PETRE, M.,** 2002. Biotechnology for microbial degradation and conversion of plant constituents. Didactica & Pedagogica Publishing House, Bucharest, 204 pages (ISBN 973-30-2295-0)

**32. PETRE, M.,** RADU, G.L., ADRIAN, P., GHEORDUNESCU, V., 2002. Bioreactors usable for microbial degradation of plant constituents. In: Progresses in Bioanalysis. Ed. Ars Docendi, Univ. București, p. 297-314 (ISBN: 973-558-015-2)

**33. PETRE, M.,** ZARNEA, G., ADRIAN, P., GHEORGHIU, E., SULARIA, M., 2001. Biocontrol of cellulose waste pollution by using immobilized filamentous fungi. In: Environmental Monitoring and Biodiagnostics of Hazardous Contaminants (Healy, M., Wise, D.L. Moo-Young, M, eds), Kluwer Academic Publishers, The Netherlands, p. 227-241 (ISBN: 0-7923-6869-X)

#### **e. *In extenso* articles, published in international scientific flux**

**1. PETRE, M.,** PETRE, V., DUȚĂ, M., 2014. Mushroom Biotechnology for Bioconversion of Fruit Tree Wastes into Nutritive Biomass. *Romanian Biotechnological Letters* (Accepted for publication – Published on-line ahead of print) (ISSN: 1224-5984)

**2. PETRE, M.,** PETRE V., RUSEA, I, 2014. Ecotechnology for fully recovery of fruit tree wastes through controlled cultivation of eatable mushrooms. *Scientific Bulletin. Series F. Biotechnology*, Vol. XVIII, p. 48-54 (ISSN: 2285-1364)

**3. PETRE, V.,** **PETRE, M.,** DUȚĂ, M., 2014. Biotechnological producing of natural fertilizers through microbial composting of fruit wastes. *Scientific Papers. Series B. Horticulture*, Vol. LVIII, p. 81-87 (ISSN: 2285-5653)

4. PETRE, V., PETRE, M., 2013. Biotechnology for controlled cultivation of edible mushrooms through submerged fermentation of fruit wastes. *AgroLife Sci. J.*, Vol. 2, No. 1, p. 117-120 (ISSN: 2285-5718)
5. PETRE, M., PETRE, V., 2012. The semi-solid state cultivation of edible mushrooms on agricultural organic wastes. *Scientific Bulletin. Series F. Biotechnology.* Vol. XVI, p. 36-40 (ISSN: 2285-1364)
6. PETRE, M., TEODORESCU, A., PATRULESCU, F., 2012. Biotechnology of submerged fermentation to produce nutritive mycelial biomass through controlled cultivation of edible and medicinal mushrooms. *Scientific Bulletin. Series F. Biotechnology.* Vol. XVI, p. 89-94 (ISSN: 2285-1364)
7. PETRE, M., PETRE, V., 2011. Biotechnology for solid-state cultivation of mushrooms on organic wastes from wine making industry. *Lucrări științifice – Seria B – LV, Horticultură*, p. 128-135 (ISSN: 1222-5312)
8. PETRE, M., PETRE, V., TEODORESCU, A., GIOSANU, D., 2011. Submerged fermentation of cereal wastes by enhanced cultivation of edible and medicinal mushrooms. *Lucrări științifice–Seria B–LV 2011, Horticultură*, p. 353-359 (ISSN: 1222-5312)
9. PETRE, M., TEODORESCU, A., NEBLEA, M., STANCU, E., 2010. Biotechnology of Winery and Vine Wastes Recycling by *In Vitro* Cultivation of Edible and Medicinal Mushrooms. *Contribuții Botanice*, 2010, XLV, p. 57-64, Grădina Botanică “Alexandru Borza” Cluj-Napoca (ISSN: 0069-9616)
10. PETRE, M., TEODORESCU, A., GIOSANU, D., STANCU, E., 2010. Biotechnology of Organic Cultivation of Edible Mushrooms on Winery and Vineyard Wastes. *Proc. of the 3rd Int. Symp. „New Researches in Biotechnology” SimpBTH 2010, Biotechnology Series F – Suppl. Vol.*, p. 77-84 (ISSN:1224-7774)
11. PETRE, M., TEODORESCU, A., BEJAN, C., ANDRONESCU, A., 2010. High Nutritive Biomass of Edible and Medicinal Mushrooms Produced by Submerged Fermentation of Cereal By-Products. *Proc. of the 3rd Int. Symp. „New Researches in Biotechnology” SimpBTH 2010, Biotechnology Series F – Suppl. Vol.*, p.165-172 (ISSN:1224-7774)
12. PETRE, M., TEODORESCU, A., 2010. Biotechnology of Edible Mushrooms Cultivation on Vine and Winery Wastes. *Food and Environment Safety, Univ. Stefan cel Mare - Suceava*, vol IX, 3: 17-21, 2010 (ISSN: 2068-6609)
13. PETRE, M., TEODORESCU, A., STANCU, E., GĂVAN, S., 2010. Controlled cultivation of edible mushrooms on lignocellulosic wastes. *Lucrări științifice – Seria B – LIV – 2010, Horticultură*, p. 812-817 (ISSN: 1222-5312)
14. PETRE, M., TEODORESCU, A., 2009. Biotechnology for *in vitro* growing of edible and medicinal mushrooms on wood wastes. *Annals of Forest Research*, vol. **52(1)**: 129-137 (ISSN: 1844-8135)
15. PETRE, M., TEODORESCU, A., NICOLESCU, A., DOBRE, M., GIOSANU, D., 2009. Food Biotechnology for Edible Mushrooms Producing by Using Modular Robotic System. *Proc. of the Int. Symp. „New Research in Biotechnology”, Scientific Bulletin, Series F, USAMVB*, p. 261-269 (ISSN: 1224-7774)
16. PETRE, M., PETRE, V., 2008. Environmental biotechnology to produce edible mushrooms by recycling the winery and vineyard wastes. *Journal of Environmental Protection and Ecology*, **9(1)**:87-97 (ISSN: 1311-5065)
17. PETRE, M., TEODORESCU, A., MOTOUNU, M., STANCU, E., ANDRONESCU, A., 2009. Biotechnology of Medicinal Mushrooms Cultivation by Submerged Fermentation of Cereal By-Products. *Proc. of the Int. Symp. „New Research in Biotechnology”, Scientific Bulletin, Series F, USAMVB*, p. 270-277 (ISSN: 1224-7774)

18. **PETRE, M.**, BEJAN, C., VISOIU, E, TITA, I, OLTEANU, A., 2007. Mycotechnology for optimal recycling of winery and vine wastes. *International Journal of Medicinal Mushrooms*, **9(3)**: 241-243 (ISSN: 1521-9437)
19. **PETRE, M.**, TEODORESCU, A., DICU, G., 2005. The Growing Effect of Vineyard and Winery Wastes on the Production of Mycelia and Fruit Bodies of Edible and Medicinal Fungi. *International Journal of Medicinal Mushrooms*, **7(3)**:444-446 (ISSN:1521-9437)
20. **PETRE, M.**, ZARNEA, G., TEODORESCU, M.E., ADRIAN, P., GHEORGHIU, E., GHEORDUNESCU, V., 2002. Long-term biodegradation of cellulose wastes by using immobilised microorganisms in continuous bioreactors. *Journal of Environmental Protection and Ecology*, **3(1)**: 236-241 (ISSN: 1311-5065)
21. **PETRE, M.**, TEODORESCU, M.E., BULEANDRA, M., RADU, G.L., GHEORDUNESCU, V., 2001. Use of Immobilized Microbial Sorbents to Remove Bioavailable Heavy Metals (Cu, Zn, Pb) from Polluted Waters. *Romanian Journal of Biochemistry*, **(1)**:71-73 (ISSN: 1421-2345)

**f. In extenso articles, published in proceedings of the international scientific conferences**

1. **PETRE, M.**, TEODORESCU, A., 2011. Recycling of Vineyard and Winery Wastes as Nutritive Composts for Edible Mushroom Cultivation. Proc. of the International Conference on Advances in Materials and Processing Technologies AMPT 2010, American Institute of Physics, p. 1539-1545 (ISBN: 978-0-7354-0871-5)
2. MATEIAS C., NICOLESCU, A., **PETRE, M.**, DORIN, A, 2011. Developing a software platform for online data processing. Annals of DAAAM 2011 & Proceedings, p. 1301-1302 (ISSN: 1726-9679)
3. NICOLESCU A., IVAN, A., **PETRE, M.**, DOBRE, M, 2010. Virtual prototyping robotic cell for mushroom cultivation in controlled atmosphere. Annals of DAAAM 2010 & Proceedings, p. 59-60 (ISSN: 1726-9679)
4. NICOLESCU, A., MARINESCU, D., DOBRE, M., **PETRE, M.**, 2010. Virtual prototyping robotic cell for mushroom crops automated harvesting. Annals of DAAAM 2010 & Proceedings, p. 61-62 (ISSN: 1726-9679)
5. **PETRE, M.**, TEODORESCU, A., DOBRE, M., NICOLESCU, A., GIOSANU, D., 2009. Bioconversion of winery and vine wastes into protein biomass by enhanced solid state cultivation of edible and medicinal mushrooms. Sustainable Energy Beyond 2020: Part 2, Dublin, Ireland, Glasnevin Publishing, p. 114-118 (ISBN:978-0-9555781-2-0)
6. NICOLESCU, A., **PETRE, M.**, DOBRE, M., ENCIU, G., IVAN, M., 2009. Conceptual model of a modular robotic system for mushroom's controlled cultivation and integrated processing. Annals of DAAAM 2009 & Proceedings (ISSN: 1726-9679)
7. **PETRE, M.**, TEODORESCU, A., BEJAN, C., 2005. Biotechnology of recycling the vineyard and winery wastes as substrates for growing the edible and medicinal mushrooms. Proceedings of the Int. Conf. "Agricultural and Food Sciences, Processes and Technologies", Sibiu, p. 232-239 (ISBN: 973-739-093-8; ISBN: 973-739-095-4)
8. **PETRE, M.**, PENG, M-X., MAO, L-X., 2005. The influence of culture conditions on fungal pellets formation by submerged fermentation of *Cordyceps sinensis* (*Paecilomyces hepiali*) – Cs 4. In: Proc. of the 5<sup>th</sup> International Conference on Mushroom Biology and Mushroom Products, Shanghai, p.345-353 (ISSN: 90-9790-549-X)

9. **PETRE, M.**, PETRE, V., 2005. Agro-Ecology and Environmental Education to Promote Ecological Agriculture. In: Trends in Environmental Education (M. Badea, Gh. Coman, L. Dima, eds.), Transilvania Univ. Press, Braşov, p. 25-30 (ISSN:1223-964X)
10. **PETRE, M.**, TEODORESCU, A., BEJAN, C., VIŞOIU, E., ALEXE, I., 2005. Biotechnological Conversion of Winery and Vineyard Wastes into Mushroom Products. In: Trends in Environmental Education (M. Badea, Gh. Coman, L. Dima, eds.), Transilvania University Press, Braşov, p. 150-155 (ISSN: 1223-964X)
11. **PETRE, M.**, PETRE, V., 2005. Edible and medicinal mushrooms species grown on substrata made of lignocellulosic wastes. *Lucrari stiintifice*, anul XLVII, vol. 1(48), Seria Horticultura, USAMV Iasi, pp. 173-178 (ISSN: 1454-7376)
12. **PETRE, M.**, TEODORESCU, A., GHEORDUNESCU, V., 2005. Biotechnology of vineyard and winery waste conversion into protein biomass for food and feed. *Lucrari stiintifice*, anul XLVII, vol. 1(48), Seria Horticultura, USAMV Iasi, pp. 347-352 (ISSN: 1454-7376)
13. **PETRE, M.**, CUTAS, F., LITESCU, S., 2004. Biotechnology to concentrate heavy metals from polluted waters. In: Environmental Biotechnology (W. Verstraete, ed.), Balkema Publishers, Taylor & Francis Group, London, UK, p.433-439 (ISBN: 90-5809-653-X)
14. **PETRE, M.**, PETRE V., 2003. Medicinal Mushrooms Used as Natural Adaptogens and Stimulants of Immune System. Proceedings of the 8<sup>th</sup> National Symposium "Medicinal Plants–Present and Perspectives", Piatra Neamţ, p. 12-15 (ISBN: 973-8392-49-7)
15. **PETRE, M.**, TEODORESCU, M.E., ZARNEA, G., ADRIAN, P., GHEORGHIU, E., GHEORDUNESCU, V., 2001. "In Situ Cellulose Biodegradation Using Immobilized Fungi as Long-Term Viable Biocatalysts. In: Proc. First European Bioremediation Conference, Chania, Greece, p. 327-331 (ISBN: 90-970-143-3)
16. **PETRE M.**, TEODORESCU M.E., ZARNEA G., ADRIAN P., GHEORGHIU E., GHEORDUNESCU, V. 2001. Microbial Degradation of Cellulose Wastes in Continuous Bioreactors. *Med. Fac. Landbouw., Univ. Gent, Belgium*, **66(3a)**:195-199 (ISSN: 0368-9697)
17. **PETRE, M.**, TEODORESCU, M.E., BULEANDRA, M., RADU, G.L., GHEORDUNESCU, V., 2001. Use of immobilized microbial sorbents to remove bioavailable heavy metals (Cu, Zn, Pb) from polluted waters. *Romanian Journal of Biochemistry*, 1:71-73 (ISSN: 1421-2345)
18. SULARIA, M., **PETRE, M.**, 2001. Kinetic models of fungal biomass growth and cellulose biodegradation. Eurosim 2001 - Shaping Future with Simulation - The 4th International EUROSIM Congress and the 2<sup>nd</sup> Conference on Modelling and Simulation in Biology, Medicine and Biomedical Engineering. (ISBN: 90-806441-1-0)

#### **g. Other works and scientific publications**

1. **PETRE, M.**, TEODORESCU, A., GIOSANU, D., PATRULESCU, F., 2012. Biotechnology of vineyard and winery wastes recycling through *in vitro* cultures of some edible mushroom species. *Current Trends in Natural Sciences*, vol. 1, p. 142-146 (ISSN: 2284-9521)
2. **PETRE, M.**, TEODORESCU, R.I., 2010. Biotechnology of vineyard and winery wastes recycling through the cultivation of edible and medicinal mushrooms. *Annals of Agriculture - "Valahia" University of Târgovişte*, p.55-59 (ISSN: 2065-2720)
3. **PETRE, M.**, TEODORESCU, A., GIOSANU, D., STANCU, E., 2009. Enhanced synthesis of edible fungal biomass by submerged fermentation of cereal wastes. *Proc. of the*

Int. Symp. „The Environment and Industry” ECOIND București, p. 140-145 (ISSN: 1843-5831)

**4. PETRE, M., TEODORESCU, A., 2008.** Biotechnology to get ecological functional food by using controlled cultures of edible and medicinal mushrooms. *Journal of EcoAgroTurism*, vol. 4, nr. 1-2, Transilvania University of Brasov, p. 221-224 (ISSN 1841-642X)

**5. PETRE, M., TEODORESCU, A., BEJAN, C., 2005.** Biotechnology of recycling the vineyard and winery wastes as substrates for growing the edible and medicinal mushrooms. *Proceedings of the Int. Conf. “Agricultural and Food Sciences, Processes and Technologies”*, Sibiu, p. 232-239 (ISBN: 973-739-093-8; ISBN: 973-739-095-4)

**6. PETRE, M., PETRE V., 2003.** Medicinal Mushrooms Used as Natural Adaptogens and Stimulants of Immune System. *Proceedings of the 8<sup>th</sup> National Symposium ”Medicinal Plants–Present and Perspectives”*, Piatra Neamț, p. 12-15 (ISBN: 973-8392-49-7)

**7. PETRE, M., PETRE, V., 2008.** Efectele ecologice ale OMG – Biodiversitate *versus* eroziune genetică. *Terra Magazin*, nr. 6, 7, 8 (126): 20-21 (ISSN: 1224-0176)

**8. PETRE, M., PETRE, V., 2008.** Biologia sintetică. Microorganismele la comandă. *Terra Magazin*, nr. 6, 7, 8 (126):10- 11 (ISSN : 1224-0176)

**9. PETRE, M., PETRE, V., 2008.** Poluarea radioactivă–un risc acceptabil? *Terra Magazin*, nr. 5(125):18-19 (ISSN:1224-0176)

**10. PETRE, M., PETRE, V., 2008.** Microorganismele patogene (VI) – Ciuperci toxice din habitate naturale. *Terra Magazin*, nr. 5 (125):10-11 (ISSN : 1224-0176)

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