

## SPECII DE MACROMICETE CU IMPORTANȚĂ MEDICALĂ DIN MUNȚII CĂPĂȚÂNII, ROMÂNIA

**SIMION Ioana ORCID: 0009-0000-3417-6977**  
*Grădina Botanică „Al Buia” a Universității din Craiova*  
*e-mail: si261968@gmail.com*

### INTRODUCERE

Literatura de specialitate consemnează prezența în microbiota Terrei a sute de specii de macromicete cu proprietăți medicinale. Aceasta derivă din prezența în celula ciupercilor a numeroși compuși bioactivi ale căror proprietăți terapeutice induc efecte antimicrobiale, antitumorale, imunostimulatoare, antioxidative, antiinflamatoare, diverse efecte metabolice și neurologice. Extracția și prelucrarea acestor compuși duce la obținerea unor suplimente alimentare ca și a unor adjuvante în terapia diverselor boli.

### MATERIAL ȘI METODA

Munții Căpățânii sunt o culme bine individualizată pe partea de SE a Masivului Parâng, între râurile Olteț și Olt. Investigațiile micologice desfășurate în Munții Căpățânii, de-a lungul a șapte ani consecutivi (2003-2010), s-au concretizat prin identificarea pe acest teritoriu a 421 de taxoni (specii, varietăți, forme) [2]. Din cei 421 de taxoni, 78 sunt specii care prezintă importanță din punct de vedere medical.

Nomenclatura taxonilor: IndexFungorum (2026) [3]. Prescurtări utilizate: pentru sindroamele (s.) toxice: SR-s. rezinoidian, SC-s. coprinian, SG-s. giromitrian, SH-s. hemolitic, SPN-s. psihotrop-narcotidian; pentru tipul de micoriză: Gm-geomicorizantă; ect-ectomicorizantă; end-endomicorizantă. Sursa bibliografică utilizată pentru documentarea proprietăților terapeutice ale compușilor bioactivi care au fost izolați din carpofozii speciilor respective: Mandal et al., 2015 [1] și <https://healing-mushrooms.net/medicinal-mushrooms/> [4].

### REZULTATE ȘI DISCUȚII

**Tabelul nr. 1.**

Specii de macromicete cu importanță medicală din Munții Căpățânii

| Nr. | Specia                       | Proprietăți medicinale                                                                                                                                                                                                                                                                                                                                              |
|-----|------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1   | <i>Agaricus xanthodermus</i> | - efect ușor antibiotic (Atkinson, 1954) [4].<br>- efect carcinogenic (Toth et al., 1989) [4].                                                                                                                                                                                                                                                                      |
| 2   | <i>Albatrellus ovinus</i>    | - efect antioxidant (Nukata et al., 2002) [4].<br>- potențator al dopaminei (Dekermendjian et al., 1997) [4].<br>- rol în metabolismul colesterolului (Sugiyama et al., 1992) [4].<br>- efect antibacterial (Hirata & Nakanashi, 1950) [4].<br>- efect antitumoral (Ohtsuka et al., 1973; Ye et al., 2005) [4].<br>- efect antiinflamator (Quang et al., 2006) [4]. |

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| 3  | Ampulloclitocybe clavipes   | - efect antibacterian (Arnone et al., 1994) [4].<br>- efect antifungic (Arnone et al., 1994) [4].<br>- efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                  |
| 4  | Amyloporia xantha           | - efect antiangiogenic (antitumoral) (Chen et al., 2005) [4].                                                                                                                                                                                                                                                         |
| 5  | Astraeus hygrometricus      | - efect antitumoral pentru alți fungi (Chakraborty et al., 2004) [4].<br>- efect antiinflamator și potențial antioxidant (Mandal et al., 2015) [1].                                                                                                                                                                   |
| 6  | Calocera viscosa            | - efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                       |
| 7  | Calocybe gambosa            | - efect antibacterian (Keller et al., 2002) [4].<br>- efect hipoglicemiant (Brachvogel, 1986) [4].                                                                                                                                                                                                                    |
| 8  | Candolleomyces candolleanus | - efect antitumoral (Ohtsuka et al., 1973) [4].<br>- efect antibacterian (Colletto et al., 1999) [4].                                                                                                                                                                                                                 |
| 9  | Cerioporus leptocephalus    | - efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                       |
| 10 | Clavariadelphus truncatus   | - efect antitumoral (Jayasuriya et al., 1998; Lingham et al., 1998) [4].<br>- efect antibacterian (Yamac & Bilgili, 2006) [4].                                                                                                                                                                                        |
| 11 | Collybia odora              | - efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                       |
| 12 | Coltricia perennis          | - efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                       |
| 13 | Collybiopsis confluens      | - efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                       |
| 14 | Collybiopsis peronata       | - efect antibiotic (Öblom, 1950, 1951) [4].<br>- efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                        |
| 15 | Collybiopsis ramealis       | - efect antibiotic (Bendz, 1960) [4].                                                                                                                                                                                                                                                                                 |
| 16 | Coprinellus disseminatus    | - efect antitumoral (Han et al., 1999; Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                     |
| 17 | Coprinellus micaceus        | - efect antitumoral (Ohtsuka et al., 1973) [4].<br>- efect antioxidant (Badalyan, 2003) [4].<br>- efect antibacterian (Zahid et al., 2006) [4].                                                                                                                                                                       |
| 18 | Coprinopsis atramentaria    | - efect antitumoral (Ohtsuka et al., 1973) [4].<br>- efect antifungal (Florianowicz, 2000) [4].                                                                                                                                                                                                                       |
| 19 | Coprinopsis cinerea         | - efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                       |
| 20 | Coprinopsis lagopus         | - efect antitumoral (Ohtsuka et al., 1973) [4].<br>- efect antibacterian (Bu'lock & Darbyshire, 1978) [4].                                                                                                                                                                                                            |
| 21 | Coprinus comatus            | - efect antitumoral (Gu & Leonard, 2006; Fan et al., 2006; Wu et al., 2003; Ohtsuka et al., 1973) [4].<br>- efect hipoglicemic (Bailey et al., 1984) [4].<br>- efect antinematodic (Tsuka et al., 1973) [4].<br>- efect antioxidant (Badalyan et al., 2003) [4].<br>- efect antibacterian (Ershova et al., 2001) [4]. |
| 22 | Craterellus cornucopioides  | - inhibă efectul mutagen al aflatoxin B <sub>1</sub> (Gruter et al., 1990) [4].<br>- efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                    |
| 23 | Cyathus striatus            | - efect antibacterian (Colletto & Giardino, 1996) [4].<br>- efect anticancerigen (Petrova et al., 2006) [4].                                                                                                                                                                                                          |
| 24 | Daedaleopsis confragosa     | - efect antibacterian (Kim et al., 2001) [4].<br>- efect antihipertensiv (Melzig et al., 1996) [4].<br>- efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                |
| 25 | Echinoderma asperum         | - efect antitumoral (Ohtsuka et al., 1973) [4].<br>- efect antibacterian (Keller et al., 2002) [4].                                                                                                                                                                                                                   |
| 26 | Exidia glandulosa           | - efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                       |

**Secțiunea III.****CONSERVAREA NATURII, MICOLOGIE, PEDOLOGIE**

|    |                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
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| 27 | <i>Fistulina hepatica</i>      | <ul style="list-style-type: none"><li>- efect antioxidant (Ribeiro et al., 2007) [4].</li><li>- efect antibacterial (Coletto 1981, 1987/88, 1992; Farrell et al., 1973) [4].</li><li>- efect nematocid (Dong et al., 2006) [4].</li><li>- efect antitumoral (Ohtsuka et al., 1973) [4].</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 28 | <i>Fomitopsis betulina</i>     | <ul style="list-style-type: none"><li>- efect antimicrobial/antiviral (Schlegel et al., 2000; Keller et al., 2002; Kandefer-Szersen and Kawecki, 1974; Kawecki et al., 1978; Kandefer-Szerszen et al., 1979) [4].</li><li>- efect antitumoral (Ohtsuka et al., 1973) [4].</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 29 | <i>Ganoderma lucidum</i>       | <ul style="list-style-type: none"><li>- efect antitumoral (Sohretoglu &amp; Huang, 2018) [4].</li><li>- efect hipotensiv (Shevelev et al., 2018) [4].</li><li>- efect antialergic [4].</li><li>- efect antioxidant (Chiu et al, 2017; Sargowo et al., 2018) [4].</li><li>- efect analgezic în artrita reumatoidă (Li et al., 2007) [4].</li><li>- potențial anxiolitic [4].</li><li>- efect hipocolesterolemiant [4].</li><li>- efect anti-androgenic (Fujita et al., 2005) [4].</li><li>- efect antibacterial Chang et al, 2015 ) [4].</li><li>- efect antiviral (HPV) (Donatini, 2014) [4].</li><li>- efect sedativ [4].</li><li>- efect antihipertensiv [4].</li><li>- efect nootropic (Chu et al., 2007) [4].</li><li>- efect imunostimulator [4].</li><li>- rol în ameliorarea afecțiunilor hepatice (Hobbs, 2003; Mondoa &amp; Kitei, 2001; Chiu et al, 2017) [4].</li></ul> |
| 30 | <i>Geastrum triplex</i>        | <ul style="list-style-type: none"><li>- conține: steroli: ergosta-4,6,8,(14), 22-tetraen-3-one, 5,6-dihydro-ergosterol, ergosterol, peroxyergosterol ca acizi: miristic, palmitic, stearic, oleic, linoleic, linolenic (Torpoco &amp; Garbarino, 1998) [4].</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 31 | <i>Gloeophyllum sepiarium</i>  | <ul style="list-style-type: none"><li>- efect antitumoral (Ohtsuka et al., 1973) [4].</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 32 | <i>Guepinia helvelloides</i>   | <ul style="list-style-type: none"><li>- efect antitumoral (Ohtsuka et al., 1973) [4].</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 33 | <i>Gymnopus dryophilus</i>     | <ul style="list-style-type: none"><li>- efect antiinflamator (Pacheco-Sanchez et al., 2006) [4].</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 34 | <i>Gyroporus castaneus</i>     | <ul style="list-style-type: none"><li>- efect antitumoral (Ohtsuka et al., 1973) [4].</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 35 | <i>Helvella lacunosa</i>       | <ul style="list-style-type: none"><li>- efect hemaglutinant (Bose &amp; Bhalla, 1990) [4].</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 36 | <i>Hydnum repandum</i>         | <ul style="list-style-type: none"><li>- efect antitumoral (citotoxic) (Takahashi et al., 1992; Ohtsuka et al., 1973) [4].</li><li>- efect antibacterial (Yamach &amp; Bilgili, 2006) [4].</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| 37 | <i>Hygrocybe conica</i>        | <ul style="list-style-type: none"><li>- efect antitumoral (Ohtsuka et al., 1973) [4].</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 38 | <i>Hygrophorus eburneus</i>    | <ul style="list-style-type: none"><li>- efect bactericid/fungicid (Teichert et al., 2005) [4].</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 39 | <i>Hymenopellis radicata</i>   | <ul style="list-style-type: none"><li>- efect antihipertensiv (Umezawa et al., 1970; Ohno et al., 1971 [4]. Nagatsu et al., 1971; Tsantrizos et al., 1995; Tsantrizos et al., 1999; Tsujikawa and Hayashi, 1977; Bates and Farina, 1985; Flynn et al., 1995) [4].</li><li>- efect antifungal (Anke et al., 1990; Umezawa et al., 1995) [4].</li><li>- efect antitumoral (Ohtsuka et al., 1973) [4].</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 40 | <i>Kuehneromyces mutabilis</i> | <ul style="list-style-type: none"><li>- efect antiviral (Mentel et al., 1994) [4].</li><li>- efect antitumoral (Ohtsuka et al., 1973) [4].</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 41 | <i>Lactifluus piperatus</i>    | <ul style="list-style-type: none"><li>- efect antitumoral (Jayko et al., 1974) [4].</li><li>- efect antibacterial (Dulgar et al., 2002) [4].</li><li>- efect antioxidant (Barros et al., 2007b) [4].</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 42 | <i>Lentinellus cochleatus</i>  | <ul style="list-style-type: none"><li>- efect antibacterial/fungicidal/moluscicidal (Keller et al., 2002) [4].</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 43 | <i>Lentinus arcularius</i>     | <ul style="list-style-type: none"><li>- efect antibacterial (Suay et al., 2004; Yamac &amp; Bilgili, 2006) [4].</li><li>- efect antitumoral (Ohtsuka et al., 1973) [4].</li></ul>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |

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| 44 | Lenzites betulinus       | - utilizată în medicina tradițională chinezească (Liu, 1978, 1978. p.101, 129 (în Ren et al., 2006) [4].<br>- efect antioxidant (Lee et al., 1996) [4].<br>- efect imunosupresiv (Fujimoto et al., 1994) [4].<br>- efect antimicrobial (Yamac & Bilgili, 2006) [4].<br>- efect antitumoral (Ikekawa et al., 1968; Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| 45 | Leucocybe connata        | - efect antioxidant (Keller et al., 2002; Kimura et al., 2005) [4].<br>- efect hepatoprotectiv (Kimura et al., 2005) [4].<br>- efect antiinflamator (Yasakuwa et al., 1996) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| 46 | Lycoperdon utriforme     | - efect antimicrobial, antifungic (Dulger, 2005) [4].<br>- efect antiproliferativ și antimitogenic (Lam et al., 2001), antitumoral (Ng et al., 2003) [4].<br>- efect antioxidant (Colombo & Bianco, 2007) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 47 | Meripilus giganteus      | - efect imunosupresiv (Narbe et al., 1991; Koch et al., 2002) [4].<br>- efect antitumoral (Tomasi et al., 2004) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| 48 | Morchella esculenta      | - utilizat în medicina tradițională chinezească (Ying et al., 1987) [4].<br>- proprietăți nutriționale: compoziție minerală Ag, Al, As, B, Bi, Ca, Cd, Cr, Cu, Fe, Ga, K, Li, Mg, Mn, Na, Ni, P, Pb, Se, Sr, Ti, Zn (Dursun et al., 2006; Tsai et al., 2006) [4].<br>- efect antitumoral (Nitha and Janardhanan, 2005; Nitha et al., 2007) [4].<br>- efect antioxidant (Mau et al., 2004) [4].<br>- efect antiinflamator (Nitha and Janardhanan, 2005; Nitha et al., 2007) [4].<br>- efect stimulator imun (Duncan et al., 2002) [4].                                                                                                                                                                                                                                                                                                                  |
| 49 | Paralepista flaccida     | - efect antitumoral (Bevizin et al., 2003; Fortin et al., 2006) [4].<br>- efect antibacterial (Coletto et al., 1995) [4].<br>- efect antiviral (Amoros et al., 1997; Autrou et al., 1994) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| 50 | Phaeolepiota aurea       | - efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 51 | Pholiota adiposa         | - efect antitumoral (Ohtsuka et al., 1973) [4].<br>- efect antimicrobial (Dulger et al., 2004) [4].<br>- efect antihipertensive (Izawa et al., 2006; Koo et al., 2006; Kim et al., 2006) [4].<br>- efect antihiperlipidemiant (Cho et al., 2006) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| 52 | Pluteus cervinus         | - efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 53 | Polyporus umbellatus     | - efect antitumoral (Ohtsuka et al., 1973, 1992 ; Ito et al., 1976; You et al., 1994; Yang, 1991; Yang et al., 1994, 1999, 2004; Wu et al., 1997 (efect inhibitor al cașecșiei indusă de toxohormon-L); Lee et al., 2005) [4].<br>- efect anti-aldosteronic diuretic (Wang et al., 1964; Yang et al., 2004; Satish et al., 2006) [4].<br>- efect antioxidant și de înlăturare a radicalilor liberi (Sekiya et al., 2005); Liu et al., 1997) [4].<br>- efect intensificator al sistemului imun in vitro (Yadomae et al., 1979; Zhang et al., 1991; Yang et al., 2004) [4].<br>- efect de creșterea părului (Zheng et al., 2004; Sun et al., 2005) [4].<br>- efect antiviral: hepatita B (Liu et al., 2001) [4].<br>- efect anti Chlamydia trachomatis (Li et al., 2000) [4].<br>- efect anti-protozoal (Plasmodium falciparum) (Lovy et al., 1999) [4]. |
| 54 | Pseudohydnum gelatinosum | - efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| 55 | Ramaria aurea            | - efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |

**Secțiunea III.****CONSERVAREA NATURII, MICOLOGIE, PEDOLOGIE**

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| 56 | Ramaria botrytis        | - efect hepatoprotectiv (Kim & Lee, 2003) [4].<br>- efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 57 | Russula adusta          | - efect antitumoral (Ohtsuka et al., 1973) [4].<br>- efect moluscidal (Keller et al., 2002) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 58 | Russula aurea           | - efect antitumoral (Ohtsuka et al., 1973).                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| 59 | Russula cyanoxantha     | - efect antitumoral (Ohtsuka et al., 1973) [4].<br>- efect antioxidant/FRSA (Ribiero et al., 2006) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| 60 | Russula foetens         | - efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 61 | Russula virescens       | - efect reglator al nivelului lipidelor sanguine/efect hipocolesterolemic (Wang et al., 2005) [4].<br>- efect antioxidant (Wang et al., 2005) [4].<br>- efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                                                                                                                                                                |
| 62 | Russula xerampelina     | - efect antitumoral (Ohtsuka et al., 1973) [4].<br>- efect antiparazitic (Lovy et al., 2000) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| 63 | Scleroderma citrinum    | - efect antiviral împotriva Herpes simplex tip 1 [4].<br>- efect antibacterial (Kanokmedhakul et al., 2003) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 64 | Sparassis crispa        | - efect antioxidant [4].<br>- efect antialergic[4].<br>- efect antidiabetic [4].<br>- efect antihipertensiv [4].<br>- efect imunostimulator (Harada et al., 2002b, 2004, 2006a/b) [4].<br>- efect antitumoral (Ohno et al., 2000; Harada et al., 2002a; Name-da et al., 2003; Hasegawa et al., 2004) [4].<br>- efect antiangiogenic (Yamamoto et al., 2007) [4].<br>- efect antifungal (Woodward et al., 1993) [4].<br>- efect anti-HIV (Wang et al., 2007) [4].<br>- efect antibacterial/antimolluscidal (Keller et al., 2002; Kawagishi et al., 2007) [4].<br>- inhibitor al sintezei melaninei în melanocyte [4]. |
| 65 | Stereum gausapatum      | - efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 66 | Stropharia aeruginosa   | - efect antitumoral (Ohtsuka et al., 1973) [4].<br>- efect neuromodulator (Moldavan et al., 2001) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 67 |                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 68 | Tapinella panuoides     | - efect de înlăturare a radicalilor liberi/neuroprotectiv (Yun et al., 2000; Lee et al., 2003) [4].<br>- efect hemaglutinator (Furukawa et al., 1995) [4].<br>- efect antitumor (Cali et al., 2004) [4].                                                                                                                                                                                                                                                                                                                                                                                                             |
| 69 | Trametes cinnabarina    | - efect antibacterial (Fajana et al., 1999; Shittu et al., 2005; Eggert, 1997) [4].<br>- efect inhibitor pentru creșterea miceliană a fungilor patogeni ai plantelor (Imtiaj & Taesoo, 2007) [4].<br>- efect antitumoral (Ohtsuka et al., 1973).                                                                                                                                                                                                                                                                                                                                                                     |
| 70 | Trametes gibbosa        | - efect antiinflamator/vasoprotector (Czarnecki & Grzybek, 1995) [4].<br>- efect antitumoral (Ohtsuka et al., 1973; Ren et al., 2006; Yassin et al., 2008) [4].<br>- efect antiviral (Mlinarič et al., 2005) [4].                                                                                                                                                                                                                                                                                                                                                                                                    |
| 71 | Tricholoma album        | - efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 72 | Tricholoma sejunctum    | - efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| 73 | Tricholomopsis rutilans | - efect antioxidant (Ribeiro et al., 2006) [4].<br>- efect antitumoral (Ohtsuka et al., 1973) [4].<br>- efect antiinflamator (Koch et al., 1998, 2002) [4].                                                                                                                                                                                                                                                                                                                                                                                                                                                          |

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| 74 | Volvariella bombycina    | - efect antioxidant (Badalyan et al., 2003; Badalyan & Suzanna, 2003) [4].<br>- efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                          |
| 75 | Volvariella gloiocephala | - efect antitumoral (Ohtsuka et al., 1973) [4].                                                                                                                                                                                                                                                        |
| 76 | Xylaria hypoxylon        | - efect antiviral (Liu et al., 2004) [4].<br>- efect antitumoral (Shi & Zhan, 2007; Liu et al., 2006) [4].                                                                                                                                                                                             |
| 77 | Xylaria polymorpha       | - conține: acid 2-hexylidene-3-metilsuccinic, acid aka piliformic (Anderson et al., 1985) cu efect moderat citotoxic Chinworrungsee et al., 2001) [4].<br>- efect diuretic (Snatzke & Wolff, 1987) [4].<br>- efect citostatic (Dagne et al., 1994) [4].<br>- efect antifungal (Jang et al., 2007) [4]. |
| 78 | Xylobolus frustulatus    | - efect antimicrobial (Nair & Anchel, 1975) [4].<br>- efect antibacterial, antifungal (Nair & Anchel, 1977) [4].                                                                                                                                                                                       |

## CONCLUZII

Din cele 78 de specii medicinale sunt: acumulatori de metale grele: *Ampulloclitocybe clavipes*, *Coprinopsis atramentaria*, *Coprinus comatus*; toxice: *Agaricus xanthodermus* (SR); *Ampulloclitocybe clavipes*, *Coprinopsis atramentaria*, *Coprinellus micaceus* (SC); *Helvella lacunosa* (SG); *Ramaria aurea*, *Scleroderma citrinum* (SH); *Stropharia aeruginosa* (SPN); comestibile: *Craterellus cornucopioides*, *Lactifluus piperatus*, *Morchella esculenta*, *Ramaria botrytis*, *Russula cyanoxantha*, *Sparassis crispa*; mikorizante: *Albatrellus ovinus* (Gm-ect-end), *Craterellus cornucopioides* (Gm-ect), *Lactifluus piperatus* (Gm-ect), *Russula adusta*, *R. cyanoxantha*, *R. foetens*, *R. virescens* (Gm-ect-end), *Scleroderma citrinum* (Gm-ect), *Tricholoma album* (Gm-ect-end), *T. sejunctum* (Gm-ect.) [2].

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