

ORAL PRESENTATION ABSTRACTS

1. **Woo-Sik Jo, Sung-Yong Choi, Soon-Ja Seok, Hee-young Jung and Seung-Chun Park** - Characteristics of cultural conditions on *Auricularia auricula-judae* and their artificial cultivated fruiting body.
2. **Mirjan Švagelj, Marin Berovič, Branka Wraber and Saša Simčič** - Influence of inoculum type and process parameters in a bubble column and stirred tank bioreactor on *Grifola frondosa* biomass and polysaccharide production and pellet formation.
3. **Mirjan Svagelj, Marin Berovic, Branka Wraber and Saša Simcic** - Beta-glucan content and immunomodulating effects of *Grifola frondosa* polysaccharides from submerged and solid-state cultures.
4. **Lim Lek Teng, Lee Chia Yen and Chang Eng Thuan** - Optimization of solid state culture conditions for the production of adenosine, cordycepin, and D-mannitol in fruiting body of *Cordyceps militaris*.
5. **Alka Jajoo and Mahendra Rai** - Antimicrobial studies of *Ganoderma lucidum* extracts.
6. **Jožica Habijanič, Marin Berovič, Bojana Boh and Branka Wraber** - Immunostimulatory and immunomodulating effects of *Ganoderma lucidum* polysaccharides from submerged cultivation.
7. **Pei-Sheng Yan, Dong Jing, Ren Jing and Wang Yuanyuan** - Biological conversion of kelp residue waste by medicinal mushrooms
8. **Tonjock R. Kinge, Ebai M. Tabi, Afui M. Mih, Egbe A. Enow, T.M Nji and Njouonkou L.** - Variation of ethnomycological knowledge of macro-fungi (mushrooms) among the inhabitants of the Mount Cameroon region.
9. **Won-Sik Kong, Soon-Young Park, Arend F. van Peer, Kab-Yeul Jang, Pyung-Gyun Shin, Young-Bok Yoo, Young-Jin Park, Byoung-Moo Lee, Hyungtae Kim, Chang-Soo Lee and Jong-Guk Kim** - Whole genome sequencing and mutant pool construction for functional genomics studies of *Flammulina velutipes*.

10. **J. Holliday** - Clinical trial on medicinal mushroom formulation Immune Assist 24/7™ for control of HIV infections.
11. **Hyun-Jae Shin and Deuk-Sil Oh** - Properties and potential application of a versatile mushroom *Sparassis crispa*.
12. **Nataša Radić, Biljana Govedarica, Andrej Gregori, Stane Srčić and Borut Štrukelj** - Immunostimulatory potential of intracellular polysaccharides from *Laetiporus sulphureus*.
13. **Aleksandar Knežević, Mirjana Stajić and Jelena Vukojević** - Diversity assessment in ligninolytic enzyme production by selected *Trametes* species.
14. **S. Manurakchinakorn, P. Wisitsak, C. Pukahuta and Chitradon L.** - Biodegradation of lignin in sunflower seed hull by culinary-medicinal mushroom, *Lentinus polychrous* Lev.
15. **Jure Pohleven, Miha Renko, Špela Magister, Jože Brzin, Dušan Turk, Borut Štrukelj, Janko Kos and Jerica Sabotič** - A lectin from basidiomycete *Clitocybe nebularis* has an inhibitory effect on leukemic T cells.
16. **N.V. Psurtseva, T.V. Teplyakova, T.A. Kosogova, N.A. Mazurkova and Vlasenko V.A.** - Antiviral activity of polyporoid mushrooms from Altay Mountains (Russia).
17. **Alka Jajoo and Mahendra Rai** - Mycosynthesis of metal nanoparticles using medicinal mushroom *Ganoderma lucidum*.
18. **Mahendra Rai, Aniket Gade and Avinash Ingle** - Mycofabrication of nanoparticles by fungi with special references to mushrooms: Current trends and future perspectives.
19. **Tytti Sarjala, Karoliina Niemi and Hely Häggman** - Polyamines in ectomycorrhizal fungi.
20. **Krzysztof Grzywnowicz** - Ethnomycology in Polish highlander's folk medicine.
21. **Ksenija Durgo, Draženka Komes, Ana Belščak-Cvitanović, Dunja Horžić, Jasna Franekić and Ivan Jakopović** - Growth inhibition of human tumor cell lines of different origin with medicinal mushroom preparations.
22. **Ana Belščak-Cvitanović, Draženka Komes, Dunja Horžić, Ksenija Durgo and Ivan Jakopović** - Bioactive potential of preparations made from various medicinal mushrooms in terms of their polyphenolic and polysaccharides content.
23. **Ivan Jakopović and Neven Jakopović** - Long term effects of using medicinal mushroom preparations in human colorectal and breast cancer.

24. **Solomon P. Wasser** - Current findings, future trends, and unsolved problems in studies of medicinal mushrooms.
25. **Martin Pavlik, Ladislav Reinprecht, Stefan Pavlik** - Decomposition of beech and aspen stumps infected with *Pleurotus ostreatus* – evaluation of the five years experiment.
26. **Xenon Corporation** - Photonic enhancement of vitamin D in mushrooms.
27. **A.V. Shnyreva** - Somatic compatibility is limited by a substrate in *Pleurotus ostreatus* but does not prevent genetic exchange.
28. **Susanna M. Badalyan, Ali Borhani and Narine G. Gharibyan** – Study of antifungal/antagonistic effect of xylotrophic mushrooms from Northern Iran.
29. **Susanna M. Badalyan, Hamajak V. Karapetyan, Monica Navarro-González and Ursula Kües** - Growth stimulatory effect of mycelium of several coprinoid mushrooms.
30. **Tonjock R. Kinge and Afui M. Mih** - Secondary metabolites identification of oil palm isolates of *Ganoderma zonatum* Murrill from Cameroon and their cytotoxicity against five human tumor cell lines *in vitro*.
31. **Lital E. Sharvit, Solomon P. Wasser and Fuad Fares** - Anti-proliferative and pro-apoptotic effects of *Cyathus striatus* (higher Basidiomycetes) extract on human pancreatic adenocarcinoma cells.
32. **Nuhu Alam and Tae Soo Lee** - Antihyperlipidemic activities of Oyster mushroom on biochemical and histological function in hypercholesterolemic rats.
33. **Mehmet Öztürk, Mehmet Emin Duru, İbrahim Kivarak, Gülsen Tel and Mansur Harmandar** - The anticholinesterase activity of four edible mushrooms growing naturally in the South-West Anatolia of Turkey.
34. **Jerica Sabotič, Petra Avanzo, Jože Brzin, Borut Štrukelj and Janko Kos** - Medicinal potential of protease inhibitors unique to mushrooms.
35. **C.O. Adenipekun, O.O. Olanrewaju and Ogunjobi A.A.** - Bioaccumulation of heavy metals and nutrient content supplementation by two White rot fungi in crude oil polluted soils.
36. **E.M. Kadukova, S.N. Sushko, A.F. Malenchenko and Naumov A.D.** – Antitumor and radioprotective activity of aqueous extracts of Basidiomycetes (experimental investigation).

37. **Hannu Raitio, Eeva Karjalainen and Tytti Sarjala** - Forests and Human Health (ForHealth), IUFRO task force promotes utilization of forest-derived pharmaceuticals and nutraceuticals.
38. **Shen Hengsheng, Chen Junchen, Wu Li, Tang Baosha and Li Yibin** - Enrichment of seleniferous *Pleurotus geesteranus* mycelia with submerged culture in Na₂SeO₃ medium and its tolerant threshold value.
39. **Vikineswary Sabaratnam, Tan Wee-Cheat, Nuruliana Saidin, Zazali Alias, Tan Yee Shin, S. Sarasvathy, Umah Rani Kuppusam^Y and Zhang Jingsong** - Wild *Ganoderma* spp. and their selected medicinal properties.
40. **V.O. Oyetayo, M.O. Okuo and Olatunji E.K.** - Assessment of the antimicrobial property of *Coriolopsis* species a common polyporale collected from South West Nigeria.
41. **Leontiy F. Gorovoj and Olga F. Seniuk** – Useful properties of chitin of medicinal mushrooms.
42. **Su-Der Chen, Wan-Ju Lu and Yeong-Hsiang Cheng** - Production of erinacines by *Hericium erinaceus* solid-state fermentation and extracts affecting proliferation and NGF secretion on PC12 nerve cells.
43. **Yeong-Hsiang Cheng and Ching-Han Huang** - Cordycepin inhibit cell proliferation by stimulating A₃ adenosine receptor and apoptosis in human lung cancer A549 cells.
44. **Ulrike Lindequist, Manuela Harms, Astrid Oberbuchner, Rika Rausch and Kristian Wende** - Influence of selected medicinal mushrooms on *in vitro* wound healing processes.
45. **Olga F. Seniuk, Leontiy F. Gorovoj and Natalia F. Kurochko** – Use of mushroom preparation “MYCOTON” in treatment chronic gastroduodenitis at patients of senile age.
46. **Kah-Hui Wong, Murali Naidu, Pamela David and Vikineswary Sabaratnam** - Medicinal mushroom *Hericium erinaceus* promotes nerve regeneration and repair after crush injury to rodent peripheral nerve.
47. **Claudia De Rosa** – The homeopathic proving of *Bovista Lycoperdon*.
48. **Claudia De Rosa** – A clinical case of *Bovista lycoperdon*.
49. **P.S. Negi, Ranjit Singh and Ahmed Z.** - Ethnomycology of *Ophiocordyceps sinensis* in context to Central Himalayas of India.
50. **Sanjeev Kumar and Y.P. Sharma** - Edible mushrooms taxonomy and ethnomycology from Jammu and Kashmir, India.

51. **Jamal Mahajna** - Biologically active substances from culinary-medicinal mushroom *Coprinus comatus* as modulators of androgen receptor activity in prostate cancer cell lines.
52. **Jamal Mahajna** - Oleic acid is the active component in the mushroom *Daedalea gibbosa* that inhibits Bcr-Abl kinase auto-phosphorylation activity.
53. **Taiwo Adeleye** – Nigerian Mushrooms: Underutilized Non-Wood Forest Resources
54. **Ming Chen, Lin Zhai, and Henrik Hoff-Hansen** - The *in vitro* and *in vivo* Anticancer Activity of Two Medicinal Mushroom Formulations
55. **Ming Chen, Lin Zhai, Rikke Lind Jørgensen, Anna Boschian and Lone Rasmussen** - The *in vitro* Antibacterial and Antifungal Activity of Mushrooms
56. **Bao Haiying** - Research on Chinese Traditional Fungal Medicine Sanghuang

POSTER ABSTRACTS

1. **M. Prendecka, M. Jaszek, K. Małysz and Grzywnowicz K.** - Activity of tannin acyl hydrolase from medicinal mushroom *Fomes fomentarius*.
2. **E.P. Vetchinkina and Nikitina V.E.** – Characterization of specific functional proteins involved in fruit body formation in the edible medicinal basidiomycete *Lentinus edodes* (shiitake).
3. **Jin-Woo Jeong, Cheng-Yun Jin, Cheol Park, Su Hyun Hong, Gi-Young Kim, Yong Kee Jeong, Yung Hyun Choi and Jae-Dong Lee** - Induction of apoptosis by cordycepin *via* reactive oxygen species generation in human leukemia cells.
4. **R.G.P.T. Jayasooriya, Sang-Hyuck Kang, Chang-Hee Kang, Yeon-Jeong Jang, Seung-Hyun Jung, Yung Hyun Choi, Jae-Dong Lee, Yeong-Min Park and Gi-Young Kim** - Effect of water-soluble proteoglycan isolated from *Agaricus brasiliensis* on the maturation of murine bone marrow-derived dendritic cells.
5. **Júlia Gyórfi, András Geösel, József Szarvas and Anna Szabó** - Enhancing the Vitamin D₂ concentration in white and cream type *Agaricus bisporus* (LANGE/IMBACH) mushrooms by UVB irradiation.
6. **S. Pecic, M. Veljovic, S. Despotovic, N. Nikicevic and Niksic M.** - Antioxidant capacity of plum brandy with *Ganoderma lucidum*.
7. **Nina Belova** - Edible fungi as additional source of S-containing components in diets.
8. **Marcin Grąz, Izabela Dolata, Ewa Langner, Józef Kaczor and Wojciech Rzeski** - Evaluation of anticancer activity of extracts from *Piptoporus betulinus* cultivated under laboratory conditions against colon carcinoma cells.
9. **Jin-Woo Jeong, Cheng-Yun Jin, Gi-Young Kim, Jae-Dong Lee, Cheol Park, Wun-Jae Kim and Yung Hyun Choi** - Inhibitory effect of cordycepin, a nucleoside isolated from *Cordyceps militaris*, on lipopolysaccharide-induced proinflammatory mediator and cytokine production in BV2 microglial cells.
10. **Marijana Blažić and Ljerka Marija Lalić** - Physical, chemical and visual properties of cottage cheese with dried mushrooms.

11. **L. Njouonkou, R.K. Tonjock, M.D. Djamndo and Mossebo D.C.** - Ecology and distribution of the genera *Lentinus* and *Pleurotus* in tropical African area.
12. **Nasser Hosseini** - Energy balance sheet assessment in meal mushroom (*Pleurotus ostreatus*) and its optimization methods.
13. **Jong-Kug Lee, Min-Gu Kang, Jeong-Hoon Jang and Jong-Soo Lee** - Extraction and characterization of anti-obesity lipase inhibitor from *Phellinus linteus*.
14. **Krzysztof Grzywnowicz, Tadeusz Walczyński, Krzysztof Sobczyk, Jerzy Żuchowski, Magdalena Jazek and Monika Prendecka** - Protease inhibitors from fungi as bioactive metabolites of potential pharmacological value.
15. **Hirofumi Ichinose** - Molecular diversity and functional application of cytochromes P450 from Basidiomycetes.
16. **Gayathri Chandrasekaran, Whoa-Sig Park, Deuk-Sil Oh and Hyun-Jae Shin** - Purification of lignin peroxidase from *Sparassis crispa* and their bioremediation aspects on nanomaterials.
17. **Gayathri Chandrasekaran, An-Jin Wi, Deuk-Sil Oh and Hyun-Jae Shin** - Purification and characterization of lectins from a medicinal mushroom *Sparassis crispa*.
18. **P.R. Rajput, P.R. Solanki and Rathore M.M.** - Cultivation and consumption trends of oyster mushroom in Central India.
19. **T.A. Krupodorova, V.Yu. Barshteyn, N.A. Bisko and Ivanova T.S.** - Some valueble metabolites of medicinal fungi in cultured broth.
20. **Dejan Stojković, Jovana Šiljegović, Miloš Nikolić, Ana Ćirić, Jasmina Glamočlija, Marina Soković and Ivanka Milenković** - *Laetiporus sulphureus* extract as natural preservative for the *in vivo* control of *Aspergillus flavus* in tomato paste.
21. **N. Matjushkova, M. Dambrova, E. Svilpe and Muiznieks I.** - Aphrodisiacal properties of Shiitake and Oyster mushroom extracts.
22. **Maja Kozarski, Anita Klaus, Miomir Niksic, Dragica Jakovljevic and Leo L.J.D. van Griensven** - Medicinal mushroom polysaccharide extracts are possible sources of anti-oxidant food supplements.
23. **Deuk-Sil Oh, An-Jin Wi, Whoa-Shig Park, Hyun-Jae Shin and Wol-Suk Cha** - The optimal cultural conditions and anti-diabetic effects of *Mycocleptodonoides aitchisonii*.

24. **Nevena Grdović, Svetlana Dinić, Mirjana Mihailović, Aleksandra Uskoković, Jelena Arambašić, Jelena Marković, Goran Poznanović, Senka Vidović, Ibrahim Mujić and Melita Vidaković** - Antioxidant activities of two edible mushroom extracts: health benefit and aside risk.
25. **Nidhi Shrivastava** - *In silico* screening and analysis of *Ganoderma* spp. for potential anti-cancer activities.
26. **Yosuke Nishitani, Ling Zhang, Kazuki Kanazawa, and Masashi Mizuno** - Lentinan ameliorates gut inflammation in an *in vivo* and an *in vitro* model: a possible inhibition mechanism on IL-8 mRNA expression in intestinal epithelial cells.
27. **Chang-Hee Kang, R.G.P.T. Jayasooriya, Sang-Hyuck Kang, Yeon-Jeong Jang, Seung-Hyun Jung, Yung Hyun Choi, Jae-Dong Lee, Yeong-Min Park and Gi-Young Kim** - Proteoglycan isolated from *Phellinus linteus* inhibits tumor growth through mechanisms leading to an activation of CD11c⁺CD8⁺ DC and type I helper T cell-dominant immune state.
28. **Chang Sun Kim, Seon Cheol Kim and Seung Hun Yu** - Six species of *Trichoderma* associated with *Trichoderma* disease of shiitake mushroom in Korea.
29. **Ibrahim Mujić, Zoran Zeković, Zika Lepojevic, Senka Vidović and Marija Radojkovic** - Steroids in wild mushrooms extracts.
30. **András Geösel, Anna Szabó and Júlia Győrfi** - *Agaricus brasiliensis*: long-term cultivation studies.
31. **Aram Akbarzadeh** - Wastes cellulosic substrate used as raw materials for cultivated of *Pleurotus florida*.
32. **Eun-Suk Son** - Effects of *Ganoderma lucidum* extracts on glycerol 3-phosphat acyltransferase activity and glucose uptake in muscle cells.
33. **K. Viitala, U. Aapola, H. Potila, E.-M. Savonen, A. Huhtala, T. Sarjala, H. Uusitalo** - Endophytic fungi - a new source of cure for retinal diseases associated with oxidative stress?
34. **Sara Saadatmand** - Introducing of three records of Amanitales and Russulales from Iran.

35. **K.H. Wong, H.Y. Chau and Peter C.K. Cheung** - Effect of micronization on chemical composition as well as *in vitro* anti-proliferative activity of three hot water-soluble polysaccharide-protein complexes isolated from mushroom sclerotia of *Pleurotus tuber-regium*.
36. **M.K. Lemieszek, C.P. Cardoso, A.I.R.N.A. Barros, F.H.F.M. Nunes, G. Marques, P. Pożarowski and Rzeski W.** - *Boletus edulis* polysaccharides induce cell cycle arrest in human colon cancer cells.
37. **Ali Borhani, Saied Ali Mosazadeh , Narine G. Gharibyan and Susanna M._Badalyan** – Biodiversity and distribution of medicinal mushrooms in northern forests of Iran.
38. **M.K. Lemieszek, C.P. Cardoso, A.I.R.N.A. Barros, F.H.F.M. Nunes, G. Marques and Rzeski W.** - Isolation of edible mushrooms polysaccharides with antiproliferative activity.
39. **S. Welti, C. Decock, P.-A. Moreau, A. Lemoine, R. Millet and Courtecuisse R.** - Some genetical, morphological, chemical and pharmacological differences leading to separate *Ganoderma lucidum* sensu stricto from Asian species.
40. **Mirjan Švagelj and Marin Berovič** - Evaluation of several *Trametes versicolor* strains in shake-flask cultures with scale-up in a stirred tank bioreactor and bubble column.
41. **Anita Klaus, Maja Kozarski, Miomir Niksic, Dragica Jakovlevic and Leo J.L.D. van Griensven** – The edible mushroom *Laetiporus sulphureus* as natural source of antioxidants.
42. **Hyung-Jun Noh, Young-Ok Kim, Sun-Young Um, Seung-Eun Lee, Geum-Soog Kim, Jae-Han Cho and Ki-Hyun Kim** - Chemical constituents of *Hericium erinaceum* and their neuronal protective effects.
43. **Jeong Hwa Kim, Youn Jeong Cha, Jae Seong Lee, Ki Nam Yoon, Nuhu Alam, Mi Ja Shim, Min Woong Lee, U Youn Lee and Tae Soo Lee** - Antitumor and immuno-potentiating activity of crude polysaccharides extracted from fruiting bodies of *Coprinus comatus* on Mouse Sarcoma 180.
44. **Mehmet Emin Duru, Gülsen Tel, Mehmet Öztürk, Aziz Türkoğlu and Mansur Harmandar** - Fatty acid compositions of *Tricholoma fracticum*, *Tricholoma imbricatum* and *Rhizopogon luteolus*: naturally growing edible mushrooms in Turkey.

45. **Milena Savic and Miomir Niksic** – The antioxidant activity and content of Selenium in some industrial mushrooms.
46. **Viktor Papp, Zsolt Erős-Honti and Imre Rimóczi** - Database of the Hungarian records of most important lignicolous medicinal mushrooms, documented by herbarium material.
47. **Young-Cheoul Ju, Jeong-Hoon Jang, Seung-Chan Jeong and Jong-Soo Lee** - Characterization of a new antihypertensive angiotensin I-converting enzyme inhibitory peptide from *Pleurotus cornucopiae*.
48. **Myoung-Jun Jang, Jeong-Han Kim, Yun-Hae Lee and Young-Cheol Ju** - Analysis of nutritional and functional components of *Neolentinus lepideus*.
49. **Mehmet Emin Duru, Müjde Apaydin, Gülsen Tel and Mehmet Öztürk** - Chemical composition of *Tricholoma fracticum*.
50. **İbrahim Kivrak, Mehmet Emin Duru, Mehmet Öztürk, Şeyda Kivrak, Aziz Türkoğlu and Mansur Harmandar** - Antioxidant activity and total phenolic and flavonoid content of *Tuber aestivum* Vittad.: an edible medicinal mushroom.
51. **Senka S. Vidović, Zoran Zeković, Ibrahim Mujić, Jelena Banić Simičić and Stela Jokic** - Mineral components and trace elements in ethanolic and supercritical extract of some wild mushrooms.
52. **Magdalena Jaszek, Monika Prendecka, Katarzyna Kos and Krzysztof Grzywnowicz** - Multiple response of medicinal white rot fungus *Phellinus pini* to menadione-caused oxidative stress.
53. **Gayane S. Barseghyan and Solomon P. Wasser** - Cultural-morphological peculiarities, growth characteristics, and qualitative enzymatic activity tests of several important culinary-medicinal species from genus *Morchella* (Pezizales, Ascomycota).
54. **Mikheil D. Asatiani, George Songulashvili, Vladimir Elisashvili, Eviatar Nevo and Solomon P. Wasser** - Effect of medicinal mushroom *Coprinus comatus* on NF-κB down regulation in MCF7 breast cancer cells.
55. **K. Gowri, A.M. Sri Nurestri, U.R. Kuppusamy and Vikineswary S.** – *Pleurotus sajor-caju* extracts as stabilizer of lipid-rich food.
56. **S. Sarasvathy, S. Vikineswary and Kuppusamy U.R.** – Antioxidant properties of mycelium extracts of selected indigenous *Ganoderma* spp.

57. **George Songulashvili, Gloria A. Jimenéz-Tobón, Charles Jaspers and Michel J. Penninckx** - Basidiomycetes laccase as efficient agents for the elimination of estrogenic activity.
58. **I. Palacios, M. Lozano, M. D'Arrigo, J.A. Martínez, A. García-Lafuente, E. Guillamón and Villares A.** - Isolation of a water-soluble polysaccharide from *Boletus edulis*.
59. **Natia Kenkebashvili, Vladimir Elisashvili and Solomon P. Wasser** - Synthetic dyes decolourization by *Coriolopsis gallica* 1184.
60. **Jasmina Čilerdžić, Mirjana Stajić and Jelena Vukojević** - Antioxidative activity of ethanol extract from *Ganoderma lucidum* basidiocarp.
61. **Hong Kyu Kim, Jeong Young Song, Geon Sik Seo and Hong Gi Kim** – Classification of Korean *Ganoderma lucidum* different from foreigners using dikaryon-monokaryon mating technique.
62. **Jong-In Choi, Jeong-Han Kim, Jeong-Hyun Chi, and Young-Cheoul Ju** - Cultivation techniques and medicinal properties of the gold oyster mushroom (*Pleurotus cornucopiae* var. *citrinopileatus*)
63. **Tai-Moon Ha, Young-Cheol Ju, Dae-Hoon Jeon, Jong-In Choi, Tae-Soo Lee** – Breeding and characteristics of a new variety *Pleurotus eryngii*, Gongi No.3
64. **Sung Hee Nam et al.** – Cultivated *Paecilomyces tenuipes* on a Silkworm Host and its Applied Research