

PROGRAMME



THE 9th INTERNATIONAL MEDICINAL MUSHROOMS CONFERENCE

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THE 9th INTERNATIONAL MEDICINAL MUSHROOMS CONFERENCE

**Advances in Medicinal
Mushroom Science:**
Building Bridges Between
Western and Eastern
Medicine

ORGANIZED BY

University of Palermo
**Department of Agricultural,
Food and Forest Sciences**

Splendid Hotel La Torre
Mondello - Palermo

24 – 28 September 2017
Palermo

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Sunday **Sept. 24** 2017

09.00 – 19.00 **Mounting of exhibition stands**

17.00 – 20.00 **On-site Registration of Participants**
Hall of Splendid Hotel La Torre

Monday **Sept. 25** 2017

08.00 – 09.30 **On-site Registration of Participants**
Hall of Splendid Hotel La Torre

09.30 – 10.30 **OPENING CEREMONY**
Room Tancredi

10.30 – 11.00 **Coffee Break**  
Terrace of Splendid Hotel La Torre

11.00 – 13.15 **Plenary session 1** ROOM TANCREDI
Chairperson Giuseppe Venturella – Italy

11.00 – 11.45 KEYNOTE 1
Medicinal mushroom science and mushrooms in human clinical studies on anticancer, oncoimmunological, and immunomodulatory activities
Solomon P. Wasser – Israel/Ukraine

11.45 – 12.30 KEYNOTE 2
Mushroom non-digestible carbohydrates as novel prebiotics
Peter Chi Keung Cheung – China

12.30 – 13.15 KEYNOTE 3
Mushroom extracts suppress pain: a critical approach
Leo J.L.D. van Griensven – the Netherlands

13.15 – 14.15 **Lunch** 
Restaurant Splendid Hotel La Torre

14.15 – 16.15 **Parallel session 1** ROOM TANCREDI

SYMPOSIUM I
Molecular systematics and phylogeny of medicinal mushrooms

Chairperson *Georgios I. Zervakis – Greece*

14.15 – 15.00 The changing shape of mushrooms: toward the new science of fungal evo-devo
David S. Hibbett – USA

15.00 – 15.15 Which names should be used in medicinal mushroom science for the pharmacologically important *Ganoderma lucidum* complex? The impact of DNA sequence-data on taxonomy and nomenclature
Viktor Papp – Hungary

15.15 – 15.30 Phylogenetic study of European species of the genus *Ganoderma* (*Basidiomycota*) through the use of a multigene analysis combined with morphological characters
Vassiliki Fryssouli – Greece

- 15.30 – 15.45 **Intraspecies genetic variability, mating compatibility and clonality in two medicinal mushrooms, *Ganoderma applanatum* and *Fomitopsis pinicola***
Alla V. Shnyreva – Russia
- 15.45 – 16.00 **Characterization of some new medicinal mushrooms from the Komarov Botanical Institute *Basidiomycetes* culture collection**
Nadezhda V. Psurtseva – Russia
- 16.00 – 16.15 **Polymorphism of ITS1 and ITS2 regions within and between three distant populations of *Schizophyllum commune***
Eleonora Bošković – Serbia

14.15 – 17.45 Parallel session 2 ROOM MARE

SYMPOSIUM II

Cultivation of medicinal mushrooms

Chairpersons *Leo J.L.D. van Griensven – the Netherlands*
& *Angela Amazonas – Brazil*

- 14.15 – 15.00 **Simplified and lower cost methods for mushroom cultivation using cold sterilization techniques**
David S. Hibbett – USA
- 15.00 – 15.30 **Cultivation of medicinal fungi biomass and pharmaceutical compounds in bioreactors**
Marin Berovic – Slovenia
- 15.30 – 15.45 **Increase in the total protein of carpophores and spent substrate in the cultivation of some edible and medicinal fungi grown on coffee by-products**
Carmenza Jaramillo López – Colombia

- 15.45 – 16.00 **Preliminary studies on the growth and cultivation of an edible *Marasmius* sp. from Nigeria**
John A. Okhuoya – Nigeria
- 16.00 – 16.15 **Effect of blue led-light on the production of fruiting bodies of *Ganoderma lucidum* using agricultural residues as substrate**
Sandra Montoya – Colombia
- 16.15 – 16.30 **Influence of cultivation substrate on the zinc (Zn) content of medicinal mushroom *Agaricus subrufescens***
Agnieszka Jasińska – Poland
- 16.30 – 16.45 ***Volvariella volvacea*: a novel method of cultivation using customized oil palm fiber blocks**
John A. Okhuoya – Nigeria
- 16.45 – 17.00 **Production of the medicinal and culinary mushroom *Grifola frondosa*: development of the process at industrial level in tropical weathers**
Sandra Montoya – Colombia
- 17.00 – 17.15 **Pretreatment of wheat straw and solid state fermentation improves yield and biological efficiency in *Pleurotus ostreatus* (Jacq.) P. Kumm. mushroom production**
Irina Bandura – Ukraine
- 17.15 – 17.30 **Growth, yield and nutritional quality of two oyster mushrooms (*Pleurotus pulmonarius* and *P. ostreatus*) on different substrates supplemented with wheat bran**
Clementina O. Adenipekun – Nigeria

17.30 – 17.45 **The *Herbarium* SAF fungal culture collection as a potential source of nutraceuticals and cultivated mushrooms**

Maria Letizia Gargano – Italy

17.45 – 18.00 **Group shot of conference participants**

19.30 **Welcome Cocktail**

Splendid Hotel La Torre Swimming Pool



Tuesday **Sept. 26**

2017

09.00 – 11.15 Plenary session 2 ROOM TANCREDI

Chairperson Ha Won Kim – South Korea

09.00 – 09.45 KEYNOTE 4

Antiallergic activities of medicinal mushrooms

Ulrike Lindequist – Germany

09.45 – 10.30 KEYNOTE 5

Mycelial extracts from polypore mushrooms reduce viruses and extend lifespans of the European Honey Bee (*Apis mellifera*)

Paul Stamets – USA

10.30 – 11.15 KEYNOTE 6

Advances in the application of medicinal mushrooms in animal health and production

Omom S. Isikhuemhen – USA

11.15 – 11.30 **Coffee Break**

Terrace of Splendid Hotel La Torre



11.30 – 15.45 Parallel session 3 ROOM MARE

SYMPOSIUM III

Biochemistry of Medicinal Mushrooms

Chairperson *Vinay K. Varshney – India*

& *Marin Berovic – Slovenia*

11.30 – 12.00

Understanding diversity and potential of mushrooms derived low molecular weight aroma and biologically active metabolites

Vinay K. Varshney – India

12.00 – 12.15

Process on Beta-glucan from edible fungi and the future research

Jingsong Zhang – People's Republic of China

12.15 – 12.30

Mycochemical investigation of *Pleurotus eryngii* var. *eryngii*

Francesca Cateni – Italy

12.30 – 12.45

Characterization of compounds with activity against *Salmonella typhi* from selected Zimbabwean mushroom extracts

Tsungai Reid – Zimbabwe

12.45 – 13.00

Proximate nutritional composition, bioactive compounds and antioxidant potential of wild edible mushroom *Astraeus hygrometricus* (Pers.) Morgan

Vinay K. Varshney – India

13.00 – 13.15

Triterpene and polysaccharide changes of *Ganoderma lucidum* during fruiting growth

Shuai Zhou – People's Republic of China

13.30 – 14.30

Lunch*Restaurant Splendid Hotel La Torre*

14.30 – 14.45

Molecular properties and biological activities of polysaccharides produced by *Cordyceps sinensis* fungus Cs-HK1

Jian-Yong Wu – People's Republic of China

14.45 – 15.00

pH and Sodium chloride modulate vegetative growth and polysaccharide secretion in *Lentinus squarrosulus*

Omon S. Isikhuemhen – USA

15.00 – 15.15

Respirometric analysis by sequential mass flux: a simple modeling approach for quantifying of growth rate and biomass in solid substrate fermentations

Alexander Taylor – USA

15.15 – 15.30

Enhancement of bioactive compounds in *Pleurotus* mushrooms produced on substrates containing olive or wineries by-products – The noteworthy cases of *P. eryngii* and *P. nebrodensis*

Georgios Koutrotsios – Greece

15.30 – 15.45

Biopotential and phosphate metabolism of different fungal origins of *Coprinus comatus* and *Coprinellus truncorum*

Kristina Tešanović – Serbia

16.15 – 16.45

Coffee Break*Terrace of Splendid Hotel La Torre*

11.30 – 19.45

Parallel session 4

ROOM TANCREDI

SYMPOSIUM IV**Science, Technology and Potential value of Medicinal Mushrooms**

Chairperson *Hui-Chen Lo – Taiwan*
& *Omon S. Isikhuemhen – USA*

11.30 – 12.00

The antiparasitic activity of ergosterol peroxide isolated from *Pleurotus ostreatus* (Jacq.) P. Kumm. f. sp. *florida*

Ángel Trigos – Mexico

12.00 – 12.15

Novel antihypertensive mechanism of *Phellinus baumii* beta-glucan by induction of corin in mice

Ha Won Kim – South Korea

12.15 – 12.30

The main active components from several edible mushrooms and their immunomodulatory activities

Qi Wang – China

12.30 – 12.45

Anti-cancer effects of *Pleurotus eryngii* var. *eryngii*: an *in vitro* and *in vivo* models focusing on Heat Shock Proteins

Antonella Marino Gammazza – Italy

12.45 – 13.00

Mushroom polysaccharides elicit antiallergic effect against Type 1 allergy *in vitro*

Omon S. Isikhuemhen – USA

13.00 – 13.15

Antioxidant potential and antiacetylcholinesterase activity of aqueous extracts of selected medicinal mushrooms

Miomir Nikšić – Serbia

13.30 – 14.30

Lunch*Restaurant Splendid Hotel La Torre*

14.30 – 14.45

New antimicrobial peptides from *Tirmania pinoyi* and *Terfezia boudieri* in the struggle against antibiotic resistance

Maria Grazia Cusimano – Italy

14.45 – 15.00

Effects of feeding diets supplemented with fungus myceliated grains on some production, health and oxidation traits of dairy ewes

Adriano Bonanno – Italy

15.00 – 15.15

Fungal supplements enhance beneficial bacteria in chicken stomach

Janelle Robinson – USA

15.15 – 15.30

Bioactivity of morels in relation to their phenotypic plasticity

Segula Masaphy – Israel

15.30 – 15.45

Effects of *Inonotus hispidus* extracts and compounds on human immunocompetent cells

Carsten Gründemann – Germany

15.45 – 16.00

The effects of blended medicinal mushroom preparations on survival and immunological and antitastatic parameters in mouse CT26.WT colon cancer

Boris Jakopovic – Croatia

16.00 – 16.15

Extracellular polysaccharopeptides of fermented *Trametes versicolor* elevate glucose uptake, glycogen synthesis and AMPK activation in high glucose-treated Hep G2 cells

Hui Chen Lo – Chinese Taipei

16.15 – 16.45

Coffee Break*Terrace of Splendid Hotel La Torre***SYMPOSIUM IV** ————— **2nd part**Chairperson *John Holliday – USA*

16.45 – 17.00

Total polyphenols and antioxidant activity of a wild strain of *Pleurotus* from Amazonian-Brazil

Ceci Sales-Campos – Brazil

17.00 – 17.15

Lentinan exerts anti-inflammatory activity by suppression of transfer of tumor necrosis factor receptor 1 to surface on intestinal epithelial cell through Dectin-1 receptor

Masashi Mizuno – Japan

17.15 – 17.30

Immunomodulating effects of the edible mushroom, *Pleurotus citrinopileatus*, on innate immunocompetent cells such as dendritic cell and macrophage

Ken-Ichiro Minato – Japan

17.30 – 17.45

Evaluation of anti-ascorbyl radical activity of water extracts of selected Serbian autochthonous macrofungi using EPR spectroscopy

Maja Karaman – Serbia

17.45 – 18.00

***Pleurotus tuber-regium* (Fr.) Singer: A tropical mushroom with potentials for nutritional and medicinal products**

John A. Okhuoya – Nigeria

18.00 – 18.15

Characterization of the Italian samples of *Hericium erinaceus*

Elena Savino – Italy

- 18.15 – 18.30 **Acetylcholinesterase inhibitory activity of selected Serbian wild mushrooms**
Ljiljana Janjušević – Serbia
- 18.30 – 18.45 **A Centre for Research and Technology Innovations is born in Africa**
John A. Okhuoya – Nigeria
- 18.45 – 19.00 **Transepithelial transport of polysaccharopeptide of *Trametes versicolor* (PSP) in mouse intestine and its subsequent activation of dendritic cells**
Xiatong Yang – People's Republic of China
- 19.00 – 19.15 **Lentinula edodes and *Pleurotus ostreatus* as functional food with antioxidant, antimicrobial and medicinal properties**
Simone Parola – Italy
- 19.15 – 19.30 **Response of organ and body weight in albino rats to oral administration of methanol extract from indigenous *Ganoderma sp.* from Nigeria**
Umar K. Sandabe – Nigeria
- 19.30 – 19.45 ***Fomitopsis pinicola*, a promising pharmacological macrofungus**
Paola Angelini – Italy


Wednesday

Sept. 27


2017

SYMPOSIUM V ROOM TANCREDI
Medicinal Mushrooms: The importance of randomized clinical trials and evidence-based medicine


Chairperson *Solomon P. Wasser – Israel/Ukraine*
& *Ulrike Lindequist – Germany*

- 09.30 – 10.00 **Mycomedicine in China**
Hai-Ying Bao – China
- 10.00 – 10.15 **Augmentation of beta-glucan specific antibody in human serum by edible mushroom *Agaricus brasiliensis* KA21 as a food-based oral vaccine**
Daisuke Yamanaka – Japan
- 10.15 – 10.30 **Antioxidant and anti-inflammatory properties of a shiitake-maitake-reishi-*Cordyceps*-based preparation for the prevention of oxidative stress and autoimmune diseases**
Francesco Oliviero – Italy
- 10.30 – 10.45 **Enhanced bioavailability of poorly water-soluble ingredients of medicinal mushrooms**
Werner Brand – Germany
- 10.45 – 11.00 **The M.O.P. therapy in HPV-related diseases of the female and male genital tract. A prospective observational clinical study**
Tullio Prestileo – Italy
- 11.00 – 11.30 **Coffee Break** 
Terrace of Splendid Hotel La Torre
- 11.30 – 11.45 ***Auricularia auricula-judae* and *Polyporus umbellatus* effectively contrast arterial hypertension: a clinical study**
Walter Ardigò – Italy
- 11.45 – 12.00 ***Hericium erinaceus* in the management of faecal calprotectin**
Stefania Cazzavillan – Italy


12.00 – 12.15	Randomized clinical trial for the evaluation of immune modulation by a beta-glucans enriched yogurt in children from Medellin - Colombia <i>Sandra L. Duque Henao – Colombia</i>	
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12.15 – 12.30	Mood and sleep disorders variations after eight weeks supplementation with <i>Hericium erinaceus</i>: a pilot study in 18 overweight women <i>Paola Rossi – Italy</i>	
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12.30 – 12.45	Antioxidant, antimicrobial and anti-inflammatory properties of <i>Pleurotus eryngii</i> for metabolic syndrome's prevention <i>Nicoletta Salviato – Italy</i>	

13.00 – 14.00	Lunch <i>Restaurant Splendid Hotel La Torre</i>	

14.30 – 16.30	CLOSING CEREMONY <i>Room Tancredi</i>	

21.00	Congress Dinner <i>Restaurant Alle Terrazze, Mondello</i>	

Thursday	Sept. 28	2017

08.30 – 19.00	Conference Excursion	

e – Poster Session

From 9 am [Sept. 25 – 2017]

until 5 pm [Sept. 27 – 2017]

EP_01	ASEF M.R., HARSINI S. – Geographical distribution of <i>Pleurotus eryngii</i> species complex in Iran
EP_02	BAEK I., JEOUNG Y., KIM J., LEE Y., CHI J.-H. – Promoting effect on mycelial growth of the oyster mushroom by microorganism
EP_03	BELTRAME G., TRYGG J., HUYNH N., YANG B. – Investigation of Chaga, sterile conk of <i>Inonotus obliquus</i> (Fr.) Pilat
EP_04	BOŠKOVIĆ E., KARAMAN M., RAKIĆ M., ORLOVIĆ S., TAMAŠ I., GALOVIĆ V. – Geographic variations in ITS1 and ITS2 regions of medicinal lignicolous fungal species <i>Fomitopsis pinicola</i>
EP_05	BOUDAGGA S., OUALI Z., MERSNI M., BOUSLAMA L., GARGANO M.L., VENTURELLA G., JAOUANI A. – Cultivation of some mushrooms species originating from Tunisia and exploration of their valuable metabolites
EP_06	CAR H., SADOWSKA A., ZAPORA E., MACIEJCZYK M., SURĄŻYŃSKI S., WOŁKOWYCKI M., STOCKI M., BAKIER S. – Selected biological effects of <i>Tremella mesenterica</i> and <i>Sarcoscypha coccinea</i>
EP_07	CHEN P., WANG Q., YU L. – Study on the chemical constituents of <i>Floccularia luteovirens</i>
EP_08	CHO J.H., LEE H.M., HAN J.G., LEE K.H., HYUN M.W., KONG W.S., SEONG H.A. – Anti-obesity effects of <i>Ganoderma lucidum</i> extract in mice

- EP_09 CROSTA L., GALANTI D., CATARELLA M.T., VALERIO M.R. – Micetrin to prevent nausea and asthenia induced by chemotherapy in the adjuvant treatment of breast cancer
- EP_10 DI PIAZZA S., DAMONTE G., CECCHI G., BERUTO M., ZOTTI M. – Cultivation of medical mushrooms to develop an international green supply chain between Italy and France: the FINNOVER project
- EP_11 DÖRNTE B., KHONSUNTIA W., JAVAID N., ISTEŁ., LAKKIREDDY K., KAMRAN A., OWIS E., KÜES U. – Transformation as a tool to modify morphological and physiological properties of the mushroom *Coprinopsis cinerea*
- EP_12 FALANDYSZ J., SABA M., WIEJAK A., WANG Y., ZHANG J. – Mercury in *Wolfiporia extensa* (Peck) Ginns from Yunnan in China
- EP_13 FALANDYSZ J., SANIEWSKI M., WANG Y., ZHANG J., ZALEWSKA T. – Radiocaesium in medicinal mushrooms of Yunnan, China
- EP_14 FALANDYSZ J., ZHANG J., CHUDZIŃSKA M., WANG Y., BARAŁKIEWICZ D. – Minerals in sclerotia of medicinal *Wolfiporia extensa* (Peck) Ginns from Yunnan in China
- EP_15 FENG H.Q., CHENG S., SHU L.W., CHENG L.L., YANG Q.Y., LI W.J., YANG X.T. – Measurement of β -1, 3-glucan in cultivated *Cordyceps* herbs and anamorphic mycelial cultures
- EP_16 FERRARI B., INSOLIA V., PRIORI E.C., OCCHINEGRO A., RATTO D., GUGLIELMINETTI M.L., SAVINO E., BOTTONE M.G., ROSSI P. – Dietary supplement based on *Ganoderma lucidum* tested
- EP_17 GARCÍA-GARCÍA M., VALDEZ-CRUZ N.A., TRUJILLO-ROLDÁN M. A. – Effect of inoculum and shake flasks design in the production of exopolysaccharides by submerged culture from mushroom *Humphreya coffeata* (Berk.) Stey

- EP_18 GIANCHINO C., PIATTONI F., GONTHIER P., LEONARDI P., ZAMBONELLI A. – First attempts of cultivation of *Laetiporus sulphureus* from Sicily (Italy)
- EP_19 GOROVOJ L.F., SENIUK O.F. – Multimodal complex preparation Mycoton for health restoration
- EP_20 HAN J.G., HYUN M.W., CHO J.H., LEE K.H., KONG W.S., HONG S.B., SUNG G.H. – Genomic approach to find secondary metabolite biosynthetic gene clusters in *Cordyceps bassiana* (Hypocreales, Ascomycota)
- EP_21 HUANG S.T., KUO S.P., LIN Y.S., TZEAN S.S., LAI J.T. – A functional peroxidase and antimicrobial activity screening from poroid brown-rot fungus *Antrodia cinnamomea*
- EP_22 JANJUŠEVIĆ L., KARAMAN M., ŠIBUL F., GORJANOVIĆ S., PASTOR F., KEBERT M., PEJIN B. – An insight into chemistry and bioactivity of *Amanita strobiliformis* (Paulet ex Vittad.) Bertill.
- EP_23 JANJUŠEVIĆ L., KARAMAN M., ŠIBUL F., TOMMONARO G., IODICE C., TEŠANOVIĆ K., PEJIN B. – An insight into acetylcholinesterase inhibitory activity of selected lignicolous macrofungi: the case study of water extracts
- EP_24 KANG J.-A., JANG Y., RYOO R., KIM S.H., KA K-H – The effect of pine wilt disease pesticides on *Tricholoma matsutake*, *Sarcodon aspratus* and *Lentinula edodes*
- EP_25 KIM S.H., KIM J.Y., HYUN M.W., LEE C.J., LEE G.S. – Bacteria and fungi in imported media substrates for mushroom cultivation
- EP_26 KOLUNDŽIĆ M., RADOVIĆ J., TAČIĆ A., DODEVSKA M., MILENKOVIĆ M., NIKOLIĆ V., KUNDAKOVIĆ T. – Angiotensin-I-converting enzyme inhibitory and antimicrobial activity of *Craterellus cornucopioides* (L.) Pers., *Cantharellaceae*
- EP_27 KÜES U., KHONSUNTIA W., DÖRNTE B., BADALYAN S.M. – Asexual sporulation in *Agaricomycetes* – distribution among species, modes of mitospore generation, spore functions and genetic consequences

- EP_28 KUNCA V., PAVLÍK M. – Culinary and medicinal mushroom *Polyporus umbellatus* – new knowledge on fruit body production and habitat preferences from Central Europe
- EP_29 KUROCHKO N.F., SENIUK O.F., GOROVOJ L.F. – The Mycoton treatment of chronic hepatitis B, C, B+C
- EP_30 LAVRENUCHUK G.Y., SENIUK O.F., GOROVOJ L.F. – The effect of melanin-glucan complex from *Fomes fomentarius* on morphofunctional state of cells with different proliferation potential
- EP_31 LIU Y., ZHU Y., WANG Q., LI Y. – Immunomodulatory and antitumor activities of polysaccharides from *Flammulina rossica*
- EP_32 MALUČKÁ L.U., HARVANOVA J., UHRINOVÁ A., SALAYOVÁ A., PAVLÍK M., RAJTAR M., BEDLOVIČOVÁ Z. – Effect of the substrate on the antioxidant activity of the alcoholic extracts of *Paecilomyces hepiali*
- EP_33 NEIFAR M., ABID O., CHEBBI I., AYARI A., NAJAR T., JAOUANI A. – Efficiency evaluation of solid-state bioconversion of agro-residues, waste and by-product into highly digestible – protein rich animal feed by medicinal white-rot mushrooms
- EP_34 OUALI Z., GARGANO M.L., BOUDAGGA S., SBISSI I., VENTURELLA G., JAOUANI A – Macromycetes' diversity in Tunisia
- EP_35 PANNO S., CARUSO A.G., GARGANO M.L., BELLA P., DAVINO M., DAVINO S., VENTURELLA G. – Morphological and molecular characterization of distinct species of fungi with potential medicinal interest collected in Sicily
- EP_36 PAPP V., KOVÁCS B., ZOMBORSZKI Z.P., CSUPOR-LÖFFLER B., ORBÁN-GYAPAI O., URBÁN E., HOHMANN J., VÁNYOLÓS A. – Pharmacological properties of *Inonotus nidus-pici*, a central-southern European relative of the prized "Chaga" mushroom

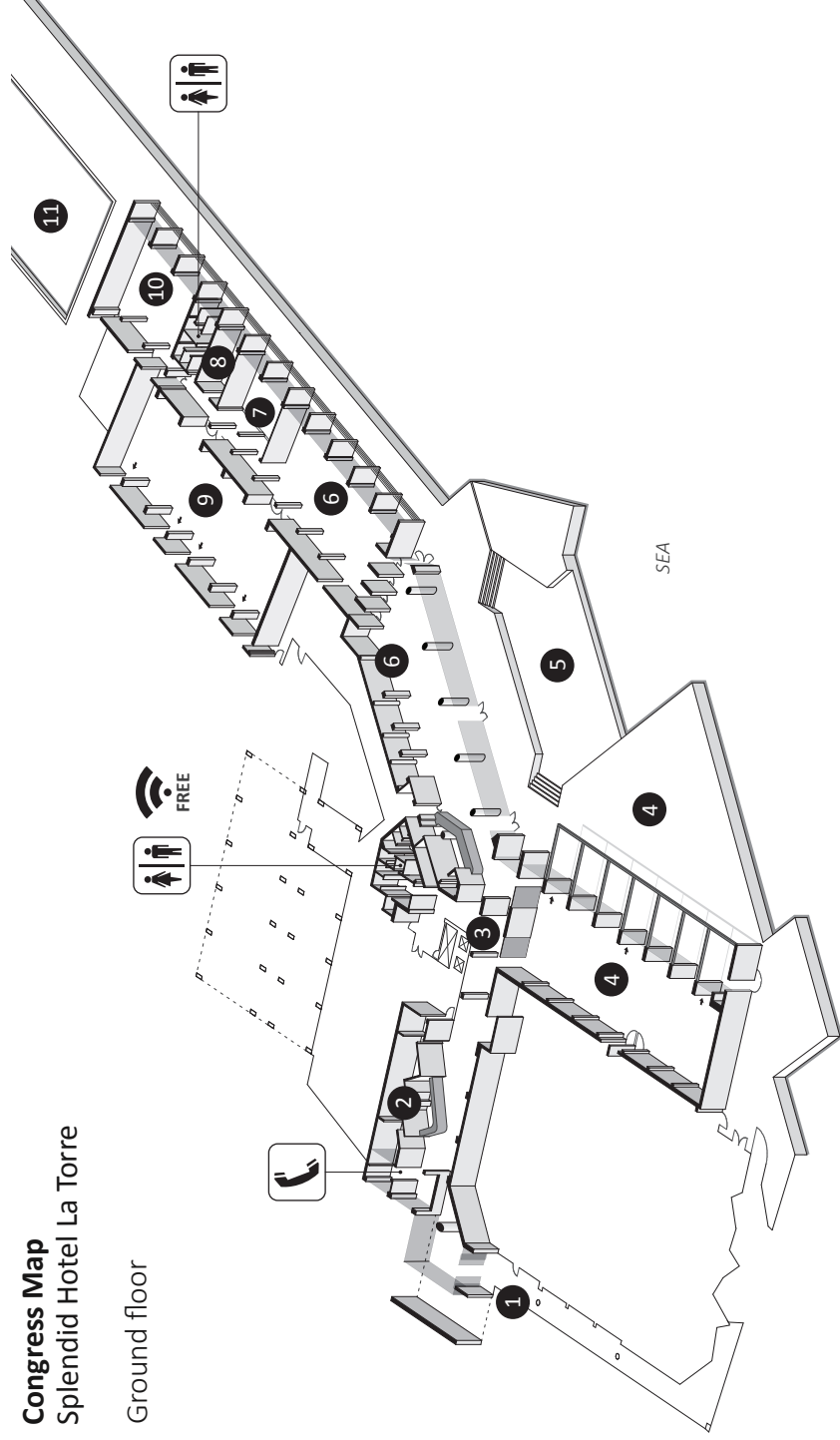
- EP_37 RAVNIKAR M., TAVČAR BENKOVIĆ E., ŽUPANC K., POHLEVEN F., ŠTRUKELJ B. – Screening for new inhibitors of α -amylase, α -glucosidase and DPP-4 in fungal extracts
- EP_38 SADOWSKA A., SURAZŹYŃSKI A., MACIEJCZYK M.K., ZAPORA E., BAKIER S., WOŁKOWYCKI M., CAR H. – Anticancer activity of *Heterobasidion annosum*
- EP_39 SALTARELLI R., CECCAROLI P., VALLORANI L., LEONARDI P., IOTTI M., ZAMBONELLI A. – Antioxidant activities of two Italian *Ganoderma lucidum* strains at different growth stages
- EP_40 SAPORITA P., BURRUANO S., CONIGLIARO G., CUSIMANO M.G., GARGANO M.L., GIAMBRA S., PADOVAN F., PALAZZOLO E., SAIANO F., SCHILLACI D., VENTURELLA G. – A white Maitake (*Grifola frondosa*): nutritional value and antibacterial preliminary activity test
- EP_41 SARI M., ROTH C., HAMBITZER R. – *Piptoporus betulinus* - a new promising source for beta-glucans?
- EP_42 SAVINO E., GIROMETTA C., CESARONI V., RODOLFI M., PERINI C., ANGELINI P., PICCO A.M. – Conservation of biodiversity of *Hericium erinaceus* in Italy
- EP_43 SENIUK O.F., GOVORUKHA V.M., SUSLOVA O.S., GOROVOJ L.F. – MYCOTON from *Fomes fomentarius* and human bacterial flora
- EP_44 SEO S., JANG Y., PARK Y., KA K-H. – Antioxidant activities of mushroom extracts from *Lentinula edodes* in Korea
- EP_45 SEO S., JANG Y., BAE Y., RYOO R., KA K-H. – Antioxidant activities of water extract of *Pleurotus ostreatus* in Korea
- EP_46 SKNEPNEK A., PANTIĆ M., MATIJAŠEVIĆ D., MILETIĆ D., LEVIĆ S., NEDOVIĆ V., NIKŠIĆ M. – Antimicrobial and antioxidant properties of novel *Ganoderma lucidum* beverage fermented by Kombucha

- EP_47 SONNENBERG A.S.M., SCHOTS A., CHEN S., BAARS J.J.P. – Genetic variation within fungal species. An unexplored source for several applications
- EP_48 SUBBA S., WINKLER M., KÜES U. – How complex is a mushroom?
- EP_49 TEŠANOVIĆ K., PEJIN B., GORJANOVIĆ S., ŠIBUL F., PASTOR F., JANJUŠEVIĆ L., KARAMAN M. – Antioxidant, antiradical and acetylcholinesterase inhibitory activity of *in situ* and *in vitro* grown *Coprinus comatus* (O.F. Müll.) Pers. 1797
- EP_50 TU L.G.E., BAO H.Y., LI Y. – Potential resources of medicinal mushroom: poisonous mushrooms of China
- EP_51 URREGO S.A., DUQUE HENAO S.L., CANO A.M., HIGUITA E.A. – Increase in circulating T and NK lymphocytes by a *Ganoderma lucidum* β -glucan-enriched nutritional supplement in Colombian children. A one arm, opened clinical study
- EP_52 WANG E-J., JEONG Y.S., RYOO R., JANG Y., KA K-H. – Mycelial characterization of wild mushroom *Lentinula edodes* from Mt. Jungwang and Mt. Gariwang in Korea
- EP_53 YAN Z-F., LI C-T., LI Y. – Effects of exogenous elicitors on farnesyl diphosphate synthase gene for triterpenoids synthesis in *Inonotus obliquus*, involvement of NO and H₂O₂ signaling pathways
- EP_54 YANG Y., LI Q-Z, WU D., LIU Y-F, ZHOU S., ZHANG J. – Structure characteristics elucidation and biological activities of polysaccharides from medicinal mushroom *Hericium erinaceus* in different maturation stages
- EP_55 ZACCHIGNA M., ALTIERI T., BELTRAME G., CATENI F., PROCIDA G. – Mycochemical study of polysaccharides from the edible mushroom *Cortinarius caperatus* (Gypsy mushroom)
- EP_56 ZAPORA E., WOŁKOWYCKI M., SADOWSKA A., CAR H., BAKIER S. – Biodiversity of medicinal mushrooms in Białowieża primeval forest

- EP_57 ZHAI L., LIU X., LIU H., HOFF-HANSEN H., CHRISTENSEN S.B., CHEN M. – Two anticancer iminolactones from *Schizophyllum commune*
- EP_58 ZHANG H.N., QU D.H., JIANG F.C., ZHANG J.S., YANG Y. – Strain improvement of *Phellinus baumii* for total flavonoids production by rational screening of ARTP induced mutants and kinetic modelling
- EP_59 ZHANG Z., TUDI T., LIU Y-F., ZHOU S., FENG N., YANG Y., TANG C., TANG Q., ZHANG J. – Preparative isolation of cordycepin, N⁶-(2-hydroxyethyl)-adenosine and adenosine from *Cordyceps militaris* by macroporous resin and purification by recycling high-speed counter-current chromatography
- EP_60 ZHENG D., WANG Q., LI Y. – Immunomodulatory activity of intracellular polysaccharides and exopolysaccharides from *Agaricus bisporus*
- EP_61 ZHOU S., TANG Q., TANG C., LIU Y-F., MA F., ZHANG J., ZHANG X. – Triterpene and polysaccharide changes of *Ganoderma lucidum* during fruiting growth

Congress Map Splendid Hotel La Torre

Ground floor



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Photo_Cordyceps militaris
Riccardo Compagno

Design_Davide Miserendino
broquadro.com

- 1 **Entrance**
- 2 **Reception**
- 3 **Registration Desk**
- 4 **Restaurant/Terrace**
Lunch
- 5 **Terrace**
Coffee Break
- 6 **Exposition Area**
- 7 **e-Poster Room**
- 8 **Staff Room**
- 9 **Room Tancredi**
Congress Hall
- 10 **Room Mare**
Congress Hall
- 11 **Swimming Pool**
Welcome Cocktail



Free Wi-fi Area



Under the Patronage

