

General Program

November 12 (Friday)

15:00	18:00	Registration	Room A*
18:00	20:00	Welcome Reception	Room A

November 13 (Saturday)


09:00	17:00	Registration	Room B**
09:20	09:50	Opening Ceremony	Room B
09:50	10:20	Plenary Lecture I (China)	Room B
10:20	10:40	Coffee Break	
10:40	11:10	Plenary Lecture II (Japan)	Room B
11:10	11:40	Plenary Lecture III (Korea)	Room B
11:40	12:00	Group Photo	
12:00	13:30	Lunch	Korean restaurant
13:30	15:30	Symposium I (Topic A&B)	Room B
15:30	15:50	Coffee Break	
15:50	17:30	Symposium II (Topic A&C)	Room B
18:30	21:00	Banquet	Room C***

November 14 (Sunday)

09:00	10:20	Symposium III (Topic A)	Room B
10:20	10:40	Coffee Break	
10:40	12:00	Symposium IV (Topic C)	Room B
12:00	13:30	Lunch	Korean restaurant
13:30	14:50	Symposium V (Topic D)	Room B
14:50	16:20	Poster Session	Room D****
16:20	17:00	Closing Ceremony	Room B
17:00	18:00	Business Meeting	Room B

November 15 (Monday)

08:30	12:00	Excursion Tour of Gyeongju
12:00	13:00	Lunch
13:00	16:00	Visiting Mushroom Farms

 Korean restaurant is located in the Main building (1st floor)

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- * Room A : 1st floor, Main building JangMi Hall
 - ** Room B : 3rd floor, New building D hall
 - *** Room C : 2nd floor, Main building GuhMoonGo C Hall
 - **** Room D : 3rd floor, New building E hall

Scientific Program

DAY1

Friday, November 12, 2010

15:00 ~ 18:00 Room A Registration
18:00 ~ 20:00 Room A Welcome Reception

DAY2

Saturday, November 13, 2010

Room B
09:00 ~ 17:00 Registration
09:20 ~ 09:50 Opening Ceremony

Room B
09:50 ~ 11:40 Plenary Lecture I ,II and III

09:50 PL-1 Chair : **Young Bok Yoo** (RDA, Korea)
Research and development of edible fungi industry in modern China
Tan Qi, National Engineering Research Center of Edible Fungi, China

10:20 ~ 10:40 Coffee Break

10:40 PL-2 Chair : **Tan Qi**
(National Engineering Research Center of Edible Fungi, China)
Recognition and degradation of insoluble crystalline cellulose by *Polyporus arcularius*
Tadanori Aimi¹, Yuka Ohnishi¹, Mitsutoshi Nagase², Tsuyoshi Ichiyanagi¹ and Yutaka Kitamoto³
¹Faculty of Agriculture, Tottori University, Koyama-cho Minami 4-101, Tottori-shi, Tottori 680-8553, ²Shimane Institute for industrial Technology, Hokuryo-cho 1, Matsue-shi, Shimane 690-0816, ³Asano Life Science Laboratory, Asano Industry Co. Ltd., 3-20-6, Tamahara,

- 11:10 PL-3 Tamano, Okayama 706-0014, Japan
 Chair : **Tsutomu Morinaga**
 (Prefectural University of Hiroshima, Japan)
Recent progress of mushroom research in RDA (Rural Development Administration), Korea
Won-Sik Kong, Young Bok Yoo, Kab Yeul Jang,
 Pyung Gyun Shin, Yun-Jung Park
 Mushroom Research Division, National Institute of
 Horticultural & Herbal Science, Rural Development
 Administration, Korea
- 11:40 ~ 12:00 Group Photo
- 12:00 ~ 13:30 Lunch
- 13:30 ~ 17:30 Oral Presentation
 13:30 ~ 15:30 Symposium I : Topic A & B
 Chair : **Tadanori Aimi** (Tottori University, Japan)
Young Cheol Ju
 (Mushroom Research Institute Gyeonggi Province
 ARES, Korea)
- 13:30 S-1 Comparative analysis on the diversity of *Auricularia auricula* based on physiological characteristics, somatic incompatibility and TRAP fingerprinting
Li Li, Xiu-Zhi Fan, Wei Liu, Yang Xiao, Yan Zhou,
 Yin-Bing Bian
- 13:50 S-2 The roles of homeodomain proteins during the clamp cell formation in a bipolar mushroom, *Pholiota nameko*
Ruirong Yi¹, Hiroyuki Mukaiyama², Takashi achikawa²,
 Norihiro Shimomura² and Tadanori Aimi²
- 14:10 S-9 Effects of mycelial inoculation of rhizopogon roseolus (shoro) with surfactant on mycorrhization of *Pinus thunbergii* seedlings and fruiting body formation in greenhouse nursery
Norihiro Shimomura¹, Miyuki Matsuda¹,
 Kunio Ariyoshi², Teruyuki Matsumoto¹ and
 Tadanori Aimi¹
- 14:30 S-10 Recycle utilization of waste sawdust substrate for sawdust

based cultivation of *Hericium erinaceum*

Koji Takabatake

- 14:50 S-11 Mushroom cultivation and industry in Korea
Young Bok Yoo, Kab Yeul Jang, Pyung Gyun Shin,
Chan Jung Lee
- 15:10 S-12 Selection of sawdust alternative substrates for oyster
mushroom bottle cultivation
Jeong-Han Kim¹, Jong-In Cho¹, Yun-Hae Lee¹,
Yeo-Hwang Moon²
- 15:30 ~ 15:50 Coffee Break
- 15:50 ~ 17:30 Symposium II : Topic A & C
Chair : **Pan Yingjie**
(Mushroom Branch of the China Agricultural
Society, Representing China)
Jae-Soon Cha (Chungbuk University, Korea)
- 15:50 S-3 Cloning, characterization and expression of glucoamylase
gene from ectomycorrhizal basidiomycete, *Tricholoma
matsutake*
Jianing Wan¹, Ruirong Yi¹, Yan Li¹, Yukiko Kinjo,
Aki Sadashima¹, Takao Terashita², Katsuji Yamanaka³
and Tadanori Aimi¹
- 16:10 S-4 Heterologous expression AND characterization of
mannitol-1-phosphate dehydrogenase from the
basidiomycete *Pholiotanameko*
Yan Li¹, Ruirong Yi¹, Jia ning Wan¹,
Yukiko Kinjo², Norihiro Shimomura² and
Tadanori Aimi²
- 16:30 S-13 Bioactive polysaccharides isolated from the fruiting bodies
of *Phellinus sp*
Yan Yang*, Jingsong Zhang, Yanfang Liu,
Qingbo Wang, Qingjiu Tang and Shuai Zhou
- 16:50 S-14 Effects of oyster mushrooms on lipid profile,
liver and kidney function related parameters of

hypercholesterolemic rats

Nuhu Alam, Mi Ja Shim¹, Min Woong Lee²,
U Youn Lee and Tae Soo Lee

17:10 S-15 Effects of oyster mushroom as a feed additive in
juvenile cherry salmon, *Oncorhynchus masou masou*
Jang, Myoung-Jun¹, Lee, Yun-Hae¹, Jung, Jae-Sik²,
Lim, Sung-Ryul², Yun, Yong-Hyun³, Sungchul C. Bai³
and Ju, Young-Cheol¹

Room C

18:30 ~ 21:00

Banquet

DAY3

Sunday, November 14, 2010

Room B

09:00 ~ 14:50

Oral Presentation

09:00 ~ 10:20

Symposium III : Topic A

Chair : **Tan Qi**

(National Engineering Research Center of Edible
Fungi, China)

Chang-Duck Koo (Chungbuk University, Korea)

09:00 S-5 Effect of trehalose and trehalase production for mycelium
growth of *Tricholoma matsutake*.

Mizuho Kusuda¹, Ryosuke Yodono², Mitsuhiro Ueda¹,
Norifumi Shirasaka², Kazutaka Miyatake¹,
Takao Terashita²

09:20 S-6 Purification of glutamic acid decarboxylase from
Flammulina velutipes

Norifumi Shirasaka, Takahiro Yoshida,
Takao Terashita

09:40 S-7 Transient gene expression and promoter analysis in
basidiomycete

Yoichi Honda, Eiji Tanigawa, Takahito Watanabe and
Takashi Watanabe

- 10:00 S-8 Organization of mating type genes in the edible mushroom *Flammulina velutipes*.
Arend Frans van Peer, Soon-Young Park, Kab-Yeul Jang, Pyung-Gyun Shin, Young-Bok Yoo and Won-Sik Kong
- 10:20 ~ 10:40 Coffee Break
- 10:40 ~ 12:00 Symposium IV : Topic C
Chair : **Seong Hwan Kim** (Dankook University, Korea)
Fumio Eguchi (Takasaki University, Japan)
- 10:40 S-16 In vitro antioxidant and anti-inflammatory activities of protocatechualdehyde isolated from *Phellinus gilvus*
Elias gebru¹, Seungjin Lee¹, Dereje Damte¹, Woosik Jo², Seungchun Park^{1*}
- 11:00 S-17 In vitro antitumor activity of solvent fractions from ethanol extract of *Auricularia auricula-judae* on tumor cell lines
Md Ahanur Reza¹, Myungjin Choi¹, Joongsu Lee¹, Woosik Jo², Seungchun Park^{1*}
- 11:20 S-18 Properties and potential application of a medicinal mushroom *Sparassis crispa*
Hyun-Jae Shin
- 11:40 S-19 Overview of molecular systematics of *Cordyceps* and its evolution in host affiliation
Gi-Ho Sung
- 12:00 ~ 13:30 Lunch
- 13:30 ~ 14:50 Symposium V : Topic D
Chair : **Won Sik Kong** (RDA, Korea)
Akira Suzuki (Chiba University, Japan)
- 13:30 S-20 Enzymes involved in fruiting body senescence in *L. edodes*.
Yuichi Sakamoto, Keiko Nakade, Naotake Konno
- 13:50 S-21 Quantum chemical analysis of laccase-mediator system on

degradation of environmental pollutants.

M. Tomida, Y. Hasegawa, *S. Tsujiyama and T. Yoshida

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| 14:10 | S-22 | A new record of an ammonia fungus, <i>Coprinopsis rugosobispora</i> collected from urea-treated boreal forest in Canada
Jay Kant Raut ¹ , Akira Suzuki ^{1, 2} , Toshimitsu Fukiharu ³ , Kiminori Shimizu ⁴ , Chihiro Tanaka ⁵ , Shogo Takeshige ² |
| 14:30 | S-23 | Effect of precooling conditions on quality of <i>Pleurotus eryngii</i> during low temperature storage
Yun-Hae Lee *, Jeong-Han Kim, Myoung-Jun Jang and Han-Bum Lee |
| 14:50 ~ 16:20 | | Poster Session |
| 16:20 ~ 17:00 | | Closing Ceremony |
| 17:00 ~ 18:00 | | Business Meeting |

DAY4

Monday, November 15, 2010

- | | |
|---------------|----------------------------|
| 08:30 ~ 12:00 | Excursion Tour of Gyeongju |
| 12:00 ~ 13:00 | Lunch |
| 13:00 ~ 16:00 | Visiting Mushroom Farms |

[Plenary lecture]

PL-1 Research and Development of edible fungi industry in Modern China
Tan Qi

PL-2 Recognition and degradation of insoluble crystalline cellulose by
Polyporus arcularius
Tadanori Aimi¹, Yuka Ohnishi¹, Mitsutoshi Nagase², Tsuyoshi Ichiyanagi¹ and
Yutaka Kitamoto³

PL-3 Recent progress of mushroom research in RDA (Rural Development
Administration), Korea
Won-Sik Kong, Young Bok Yoo, Kab Yeul Jang, Pyung Gyun Shin, Yun-Jung
Park

[Symposium A : Genetics and Breeding of Mushroom]

S-1 Comparative analysis on the diversity of *Auricularia auricula* based
on physiological characteristics, somatic incompatibility and TRAP
fingerprinting
Li Li, Xiu-Zhi Fan, Wei Liu, Yang Xiao, Yan Zhou, Yin-Bing Bian*

S-2 The roles of homeodomain proteins during the clamp cell formation
in a bipolar mushroom, *Pholiota nameko*
Ruirong Yi¹, Hiroyuki Mukaiyama², Takashi Tachikawa², Norihiro Shimomura² and
Tadanori Aimi²

S-3 Cloning, characterization and expression of glucoamylase gene from
ectomycorrhizal basidiomycete, *Tricholoma matsutake*
Jianing Wan¹, Ruirong Yi¹, Yan Li¹, Yukiko Kinjo, Aki Sadashima¹,
Takao Terashita², Katsuji Yamanaka³ and Tadanori Aimi¹

S-4 Heterologous expression AND characterization of mannitol-1-
phosphate dehydrogenase from the basidiomycete *Pholiotanameko*
Yan Li¹, Ruirong Yi¹, Jia ning Wan¹, Yukiko Kinjo², Norihiro Shimomura² and
Tadanori Aimi²

S-5 Effect of trehalose and trehalase production for mycelium growth of *Tricholoma matsutake*

Mizuho Kusuda¹, Ryosuke Yodono², Mitsuhiro Ueda¹, Norifumi Shirasaka²,
Kazutaka Miyatake¹, Takao Terashita²

S-6 Purification of glutamic acid decarboxylase from *Flammulina velutipes*

Norifumi Shirasaka, Takahiro Yoshida, Takao Terashita

S-7 Transient gene expression and promoter analysis in basidiomycete
Yoichi Honda, Eiji Tanigawa, Takahito Watanabe and Takashi Watanabe

S-8 Organization of mating type genes in the edible mushroom
Flammulina velutipes

Arend Frans van Peer, Soon-Young Park, Kab-Yeul Jang, Pyung-Gyun Shin,
Young-Bok Yoo and Won-Sik Kong

[Symposium B : Mushroom Cultivation]

S-9 Effects of mycelial inoculation of rhizopogon roseolus (shoro) with surfactant on mycorrhization of *Pinus thunbergii* seedlings and fruiting body formation in greenhouse nursery

Norihiro Shimomura¹, Miyuki Matsuda¹, Kunio Ariyoshi², Teruyuki Matsumoto¹ and
Tadanori Aimi¹

S-10 Recycle utilization of waste sawdust substrate for sawdust based cultivation of *Hericium erinaceum*

Koji Takabatake

S-11 Mushroom cultivation and industry in Korea

Young Bok Yoo, Kab Yeul Jang, Pyung Gyun Shin, Chan Jung Lee

S-12 Selection of sawdust alternative substrates for oyster mushroom bottle cultivation

Jeong-Han Kim¹, Jong-In Cho¹, Yun-Hae Lee¹, Yeo-Hwang Moon²

[Symposium C : Medicinal Mushroom/Fungi]

- S-13** Bioactive polysaccharides isolated from the fruiting bodies of *Phellinus sp.*
Yan Yang*, Jingsong Zhang, Yanfang Liu, Qingbo Wang, Qingjiu Tang and Shuai Zhou
- S-14** Effects of oyster mushrooms on lipid profile, liver and kidney function related parameters of hypercholesterolemic rats
Nuhu Alam, Mi Ja Shim¹, Min Woong Lee², U Youn Lee and Tae Soo Lee
- S-15** Effects of oyster mushroom as a feed additive in juvenile cherry salmon, *Oncorhynchus masou masou*
Jang, Myoung-Jun¹, Lee, Yun-Hae¹, Jung, Jae-Sik², Lim, Sung-Ryul², Yun, Yong-Hyun³, Sungchul C. Bai³ and Ju, Young-Cheol¹
- S-16** In Vitro antioxidant and anti-inflammatory activities of protocatechualdehyde isolated from *Phellinus gilvus*
Elias gebru¹, Seungjin Lee¹, Dereje Damte¹, Woosik Jo², Seungchun Park¹
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- S-18** Properties and potential application of a medicinal mushroom *Sparassis crispa*
Hyun-Jae Shin
- S-19** Overview of molecular systematics of *Cordyceps* and its evolution in host affiliation
Gi-Ho Sung

[Symposium D : Post-Harvest and Genetic Resources of Mushroom]

- S-20** Enzymes involved in fruiting body senescence in *L. edodes*.
Yuichi Sakamoto, Keiko Nakade, Naotake Konno

S-21 Quantum chemical analysis of laccase-mediator system on degradation of environmental pollutants.

M. Tomida, Y. Hasegawa, *S. Tsujiyama and T. Yoshida

S-22 A new record of an ammonia fungus, *Coprinopsis rugosobispora* collected from urea-treated boreal forest in Canada

Jay Kant Raut¹, Akira Suzuki^{1, 2}, Toshimitsu Fukiharu³, Kiminori Shimizu⁴, Chihiro Tanaka⁵, Shogo Takeshige²

S-23 Effect of precooling conditions on quality of *Pleurotus eryngii* during low temperature storage

Yun-Hae Lee*, Jeong-Han Kim, Myoung-Jun Jang and Han-Bum Lee

Poster Presentation

[Poster session A : Genetics and Breeding of Mushroom]

P-1 Commercial strain typing of *Lentinula edodes* with inter-retrotransposon amplified polymorphism-PCR method
Fumito Sasaki, Shin Takahashi, Hisashi Fujita, Takahiro Yamauchi and Sumio Ayusawa

P-2 Microscopic detection of reactive oxygen species during ectomycorrhiza establishment between *Rhizopogon roseolus* (shoro) and *Pinus thunbergii*
Yuuki Nakanishi, Norihiro Shimomura, Teruyuki Matsumoto, Hiroshi Otani and Tadanori Aimi

P-3 Nuclear behavior during basidiospore formation in *Rhizopogon roseolus* (= *R. rubescens*)
Kiyomi Sawada, Norihiro Shimomura and Tadanori Aimi

P-4 Analysis of glucanase gene from *Pholiota nameko*
Yukiko Kinjo, Yan Li, Ruirong Yi, Jia ning Wan, Takeshi Yamaguchi, Norihiro Shimomura and Tadanori Aimi

P-5 Properties of glutamic acid decarboxylase from edible mushroom

Takahiro Yoshida, Takao Terashita, Norifumi Shirasaka

- P-6** Study on the yellow pigment of *Pleurotus cornucopiae*
Kazuko Iwamoto, Chie Nagashima, Yuka Yamaguchi, Takao Terashita,
Norifumi Shirasaka
- P-7** Selection of desirable isolates and characterization in monosporous
breeding of *Flammulina velutipes*
Jae-Sun Choi¹, Jae-Seong Park¹, Chang-Woo Rho¹, Chang-Soo Lee²,
Young-Bok Yoo³
- P-8** Physiological characteristics and RAPD analysis of *Lentinula edodes*
strains
Sun-Gyu Choi^{*}, Han-Gyu Ko, Jong-Hyun Noh, Seon-Cheol Kim, Chang-Hyun You,
Heung-Soo Park
- P-9** Characteristics of a new oyster mushroom variety 『Gongi-2ho』 for
the bag culture
Jong-In Choi^{*}, Dae-Hoon Jeon, Tai-Moon Ha and Young-Cheol Ju
- P-10** Characterization of intraspecific hybrids of *Pleurotus ostreatus*
based on mitochondrial DNA profiles of di-monokaryon and
mono-monokaryon crosses
Eun Jung Kim, Won Sik Kong, Kab Yeul Jang, Pyung Gyun Sin, Yunjung Park,
Young sook Hahn¹ and Young Bok Yoo^{*}
- P-11** Effects of gamma-ray radiation on mycelium growth and ITS
sequences of shiitake mushroom (*Lentinula edodes*)
Kim Kwang-Sang, Kim Kyung-Je, Ban Seung-Eon, Kim Yu-Seon, Hong Seul-Gi,
Jang Eun-Kyoung^{*}
- P-12** Growth variation in a natural Japanese population of *Pleurocybella*
porrigens
Akira Suzuki^{*1, *2}, Hoang Pham Nguyen Duc^{*2}, Kosuke Nakamura^{*3},
Hiroshi Akiyama^{*3} and Yoshimasa Kasahara^{*4}
- P-13** Gene cloning of a *Pleurotus ostreatus* lipoxygenase Involved in the
biosynthesis of mushroom aroma

Yuji Tasaki¹, Shungo Toyama¹ and Toshio Joh²

P-14 Germplasm evaluation of *Grifola frondosa* strains using ITS-RFLP and SRAP markers

Zhang Meiyang, Shang Xiaodong, Tan Qi, Li Yu

P-15 Molecular organization of the *B* mating type locus of a *Lentinula edodes* monokaryon strain SUP2

Bao Da-Peng Chen Ming-Jie, Song Wen-Hua, Song Chun-yan, Zhang Mei-Yan, Chen Xiang, Lin Nan,

P-16 Establishment of hybridization breeding of *Ganoderma lucidum* by protoplast monokaryogenesis method

Wu Jiaojiao^{1, 2} Fu Lizhong^{2, 3} Wu Xueqian^{2, 3} Xu Xiuhong¹ Li Haibo²
Cheng Junwen² Wu Qingqi^{2, 3} Wei Hailong^{2, 3}

P-17 Mating types analysis of *Pleurotus eryngii* and *Pleurotus ferulae* using direct PCR of mating type genes

Sung Soo Park, Sung Mi Woo, Yun Jung Park, Kab Yeul Jang, Won Sik Kong, Young Bok Yoo and Pyung Gyun Shin*

P-18 Molecular characterization of *Pleurotus eryngii* and *Pleurotus ferulae* using RAPD and mitochondrial microsatellite genes

Sung Soo Park, Sung Mi Woo, Yun Jung Park, Kab Yeul Jang, Won Sik Kong, Young Bok Yoo and Pyung Gyun Shin*

P-19 Characterization of a new variety "Haemi" developed by crossing in *Hypsizygus marmoreus*

Kab-Yeul Jang, Won-Sik Kong, Young-Bok Yoo, Pyung-Gyun Shin, and Yunjeong Park

[Poster session B : Mushroom Cultivation]

P-20 Taste components analysis of *Hypsizygus marmoreus* with high quality fruiting body production by using larch sawdust

Akira Harada, Seiki Gisusi and Shozo Yoneyama

- P-21** Mass production of the mycelia from *Tricholoma matsutake* with saccharified rice bran
Moeka Asano¹, Mizuho Kusuda², Norifumi Shirasaka¹ and Takao Terashita¹
- P-22** Effect of the light qualities on the growth characteristics and yield in the cultivation of *Lyophyllum ulmarium*
Jae-Seong Park¹, Jae-Sun Choi¹, Chang-Woo Rho¹, Tae Yun¹, Chang-Soo Lee²
- P-23** Antifungal activity of extracts from hinoki cypress(*Chamaecyparis obtusa*) and douglas pine (*Pseudotsuga menziesii*) against *Trichoderma spp.*
Hong Shim, Ji Young Jung, Jung-Bin Nam, Ji-Su Kim, Jae-Kyung Yang
- P-24** The effect of environment factors in growth of *Trichoderma spp.*
Hong Shim, Ji Young Jung, Jung-Bin Nam, Ji-Su Kim, Jae-Kyung Yang
- P-25** Characteristics of bed-log of shiitake damaged by *Bjerkandera adusta* and antagonism between these two fungi
Won-Chull Bak, Bong-Hun Lee, Young-Ae Park and Hyun-Seok Kim¹
- P-26** Effect on condition of environment and shapes of sawdust medium for *Lentinula edodes* cultivation
In-Yeop Kim^{*}, Han-Gyu Ko, Byung-Seok Lee, Seon-Cheol Kim, Jong-Hyun Noh, Chang-Hyun You, Heung-Soo Park
- P-27** Microscopic characteristics of brown layers in oak sawdust cultivation bed of *Lentinula edodes*
Seon-Jung Lee, Hwa-Yong Lee, and Chang-Duck Koo
- P-28** Effect of sterilization and incubation temperatures of fermented oak sawdust on *Lentinula edodes* hyphal growth
Hui-Su Lee, Hwa-Yong Lee, and Chang-Duck Koo
- P-29** Common substrates for bottle cultivation of *Pleurotus eryngii* and *Agrocybe cylindracea*
Jong-Chun Cheong^{*}, Chang-Sung Jhune, Chan-Jung Lee, Jin-A Oh, and Young-Bok Yoo

- P-30** Cultivation of *Ganoderma lucidum* and their antioxidant activity
Hyung-Jun Noh*, Sun-Young Um, Ho-Young IM, Jae-Han Cho, Young-Ok Kim,
Yu-Su Shin, Sang-Won Lee, Seung-Eun Lee, Geum-Soog Kim, Ji-Hyun Lee,
Yoon-Pyo Hong
- P-31** Effects of aeration in saw dust bag cultivation on *Lentinula edodes*
hyphal growth
Eun-Ju Ham, Hwa-Yong Lee and Chang-Duck Koo
- P-32** Characterization of *Trichoderma* spp. devastating oak log beds
used for shiitake cultivation in korea
Jun Young Kim, Longqing Tang, Hyuk Woo Kwon, and Seong Hwan Kim
- P-33** Cellulase production by using the used sawdust medium of
commercial mushroom
Yukitoshi Yasusa and Tsutomu Morinaga
- P-34** Characterization and biological control of pseudomonads causing
bacterial browning disease of cultivated mushroom in korea
Hye-Su Han, Seung-Eun Lee¹, Chang-Sung Jhune, Jong-Chun Cheong, Jin-A Oh,
Na-Na Um and Chan-Jung Lee*
- P-35** Growth of mushroom mycelium and applicability of mushroom
production using organic media resource in korea
Chan-Jung Lee*, Na-Na Um, Jong-Chun Cheong, Chang-Sung Jhune, Jin-A Oh,
Hye-Su Han, Yu-Su, Shin¹, Byeong-Yeol Yeon¹, and Chun-Geon Park¹
- P-36** Changes and distributional pattern of microorganism in compost
and fruiting body for button mushroom cultivation
Chan-Jung Lee*, Na-Na Um, Jong-Chun Cheong, Chang-Sung Jhune, Jin-A Oh,
Hye-Su Han and Byeong-Yeol, Yeon¹
- P-37** Efficacy of antagonistic bacteria and commercial microbial
pesticide for biological control of mushroom disease
Chan-Jung Lee*, Hye-Su Han, Chang-Sung Jhune, Jong-Chun Cheong, Jin-A Oh,
Na-Na Um and Hang-Yeon Weon¹

- P-38** Occurrence of black rot of cultivated mushroom(*Flammulina velutipes*) caused by *Pseudomonas tolaasii* in Korea
Chan-Jung Lee*, Hye-Su Han, Na-Na Um, Chang-Sung Jhune,
Jong-Chun Cheong, Jin-A Oh and Young-Bok Yoo
- P-39** Outreach results of domestic mushroom varieties for mushroom farms
Jong-Chun Cheong*, Chang-Sung Jhune, Chan-Jung Lee, Jin-A Oh, and Young-Bok Yoo
- P-40** Change of the saccharide contents of fruiting bodies according to growth temperature in *Flammulina velutipes*
Chang-Sung Jhune, Hoon-Tae Leem, Hyung-Sik Yun, Jae-Han Cho, Sun-Young Um, Won-Sik Kong
- P-41** The change of amino acid content in the different harvesting periods of *Agaricus* spp.
Chang-Sung Jhune, Hyung-Sik Yun, Hoon-Tae Leem, Kab-Yeul Jang, Gi-Ho Sung, Won-Sik Kong
- P-42** The change of amino acid content according to the growing temperature in *Agaricus* spp.
Chang-Sung Jhune, Hyung-Sik Yun, Hoon-Tae Leem, Kab-Yeul Jang, Gi-Ho Sung, Jae-Han Cho
- P-43** Identification and characterization of multi-enzyme producing bacteria from spent mushroom (*Pleurotus eryngii*) substrates
Eun Ji Choi, Yun Jin Cho, Pyung Gyun Shin¹, Young Bok Yoo¹, Young Un Cho, Hong Chul Kim, Sang Wan Gal, Yea Hwang Moon² and Soo Jeong Cho*
- P-44** Effect of spent mushroom (*Pleurotus eryngii*) substrates addition on egg quality in laying hens
Yun Jin Cho, Eun Ji Choi, Pyung Gyun Shin¹, Young Bok Yoo¹, Young Un Cho, Hong Chul Kim, Sang Wan Gal, Yea Hwang Moon² and Soo Jeong Cho*

[Poster session C : Medicinal Mushroom/Fungi]

- P-45** Purification, characterization and gene cloning of metalloprotease from *Nomuraea atypicola*
Naomi Yamamoto, Mitsuhiro Ueda, Mizuho Kusuda, Masami Nakazwa,
*Kenji Ohuchi, **Minoru Sakaguchi, ***Kuniyo Inouye, Kazutaka Miyatake
- P-46** Cordycepin suppresses expression of pro-inflammatory mediators in lipopolysaccharide-stimulated BV2 microglia
Jin-Woo Jeong¹, Seong-Sook Park¹, Yung-Hyun Choi^{2,3}, Jae-Dong Lee^{1*}
- P-47** Induction of apoptosis by cordycepin in human leukemia U937 and THP-1 cells
Seong-Sook Park¹, Jin-Woo Jeong¹, Yung-Hyun Choi^{2,3}, Jae-Dong Lee^{1*}
- P-48** Ingestion of mushroom chitosan ameliorates genetic lipidosis
Fumio Eguchi, Akiko Kakinuma and Hiroaki Yoshimoto
- P-49** Physiological activity and nutritional composition of pleurotus species
Se-hyun Jo, Suna-Um, Gyoung-ean Jin, Kye Won Park, Young-bok Yu, and Ki-Moon Park*
- P-50** Nutritional characteristics of *Hypsizygus marmoreus*
Zanabaatar Bolormaa, Ha-Kun-Kim, Hahn-Shik Kwak, and Jong-Soo Lee*
- P-51** Optimal media conditions for the detection of cellulolytic activity in *Ganoderma neo-japonicum*
Woo-Sik Jo^{1*}, Ha-Na Park¹, Doo-Hyun Cho¹, Seong-Yong Choi¹ and Young-Bok Yoo²
- P-52** Inhibitory effects of glycerol 3-phosphat acyltransferase (GPAT) activity and increase of glucose uptake by *Ganoderma lucidum* extracts
Eun-Suk Son¹, Hwi-Cheul Lee², Se-Ra Kim¹, Dae-eun Yoon¹, Woorijarang Han¹ and Chang Soo Lee¹

P-53 Antibacterial and anti-inflammatory effects of *Hericium erinaceus* extract

Mi-hyang Jang¹, Tae-Heong Kang², Duk-Su Choi¹, Kyung-Ju Jeong¹,
Guk-Pil Bang¹, Ki-choul Jeong², Kyung-Ju Choi¹

P-54 A study on anti-diabetic effects of mycoleptodonoides aitchisonii extract

Oh Deuk-Sil^{1*}, Kim Hyun-Suk¹, Kim Sang-Kyum², Wi An-Jin¹, and
Park Whoa-Shig¹, Shin Hyun-Jae³

P-55 *Hericium erinaceus* promote proliferation and expression of neurotrophic factors in global cerebral ischemia

Kim Young Ock, Noh Hyung Joon, Kim Geum Sook, Lee Seong Eun, Lee Sang Won

[Poster session D : Post-Harvest and Genetic Resources of Mushroom]

P-56 Two inonotus species newly found in japan, *Inonotus formosanus* and *I. nodulosus*

Sho-ichi Tsujiyama

P-57 Inhibition of thymus- and activation-regulated chemokine (TARC/CCL17) production by *Pleurotus eryngii* extract in the HaCaT cells

Eun Hee Han¹, Yong Pil Hwang¹, Ji Hye Im¹, Ji Hye Yang¹, Hyun-Uk Lee²,
Hye Gwang Jeong^{1,*}

P-58 Effect of processing parameters on the quality of fresh-cut button mushroom(*Agaricus bisporus*)

Ji Gang Kim*, Ji Weon Choi, Seung Yu Kim, and Seung Ryoung Cheong,
Won-Sik Kong¹

P-59 Changes in quality and microbial population of fresh-cut button mushroom (*Agaricus bisporus*) during storage

Ji Gang Kim*, Basanta Kumar Das, Seon Woo Cha, and Yong Phil Kim,
Won-Sik Kong¹

P-60 An ecological study of wild mushrooms in yuchi recreational

forests of Jangheung county

Ban Seung-Eon, Kim Kyung-Je, Jin Seong-Woo, Kim Kwang-Sang*

- P-61** The analysis of *Lentinula edodes* by different product area
Kim Kwang-Sang, Kim Kyung-Je, Ban Seung-Eon, Kim Sol, Park Tae-Young,
Jin Seong-Woo*
- P-62** Analysis of genetic diversity of *Ganoderma* strains based on rDNA
ITS sequencing
Fu Lizhong^{1,2}, Zhang Hongyu^{1,3}, Wu Xueqian^{1,2}, Li Haibo¹, Wei Hailong^{1,2},
Wu Qingqi^{1,2}, Wang Li'an³
- P-63** Cloning and characterization of the iron-sulfur subunit gene of
succinate dehydrogenase from the violet root rot fungus,
Helicobasidium mompa
Sanae Kanoa, Kotaro Akagia, Satoko Kanematsub and Tsutomu Morinagaa*
- P-64** Antioxidant and antityrosinase properties from the fruiting bodies of
Lentinus lepideus
Ki Nam Yoon, Hae Jin Cho, Mi Ja Shim¹, Myong Jun Jang², Tae Moon Ha²,
Young Cheol Ju² and Tae Soo Lee
- P-65** Detection of phenolic compound and appraisal of antioxidant and
antityrosinase activities from the fruiting bodies of *Lentinus edodes*
Hae Jin Cho, Ki Nam Yoon, Mi Ja Shim¹, Min Woong Lee² and Tae Soo Lee
- P-66** Identification of phenolic compound and evaluation of antioxidant
and antityrosinase activities of *Pleurotus eryngii*
Nuhu Alam, Jae Seong Lee, Mi Ja Shim¹, Pyung Gyun Shin², Young Bok Yoo²
and Tae Soo Lee
- P-67** Identification of phenolic compound and effect of antioxidant and
tyrosinase inhibitory activities of *Pleurotus ostreatus*
Jae Seong Lee, Nuhu Alam, Mi Ja Shim¹, Pyung Gyun Shin²,
Jong Chun Cheong², Young Bok Yoo² and Tae Soo Lee
- P-68** Efficacy on antioxidant, xanthine oxidase, tyrosinase inhibition and

polyphenol contents of three extracts from the fruiting bodies of
Pleurotus cornucopiae

Jeong Hwa Kim, Youn Jeong Cha, Mi Ja Shim¹, Pyung Gyun Shin²,
Jong Chun Cheong², Young Bok Yoo², Min Woong Lee³ and Tae Soo Lee

P-69 Evaluation of antioxidant, xanthine oxidase, tyrosinase inhibition
activities, phenolic acids and flavonoid contents from the fruiting
bodies of *Pleurotus citrinopileatus*

Youn Jeong Cha, Jeong Hwa Kim, Mi Ja Shim¹ Pyung Gyun Shin²,
Jong Chun Cheong², Young Bok Yoo², U Youn Lee and Tae Soo Lee

P-70 Quality change during preservation of cultivation mushrooms,
Flammulina velutipes and *Agaricus bisporus*

Jin-A Oh*, Jong-Chun Cheong, Chan-Jung Lee, Chang-Sung Jhune and
Young-Bok Yoo