

**Programs of the Second International Symposium
on *Eucommia ulmoides***

Plenary lecture

Aug. 6th (Sat.)

[PL-1] 8:30 - 9:30	Chairperson: Sansei Nishibe (Health Sciences University of Hokkaido, Japan) ----- “Brief introduction on the resources and utilization of <i>Eucommia ulmoides</i> in China ” Ma Xihan (North Western Agriculture and Forestry University, China)
[PL-2] 9:30 - 10:30	Chairperson: Hiromu Kawasaki (Okayama University, Japan) ----- “In vitro vascular effects of <i>Eucommia ulmoides</i> Oliv. (Du-Zhong 杜仲) A plausible scientific basis for its folk use to remove blood stagnation in traditional Chinese medicine (Kanbo)” Chiu-Yin Kwan (McMaster University, Canada)
[PL-3] 10:45 - 11:45	Chairperson: Che Qingming (Beijing University, China) ----- “Du-Zhong (<i>Eucommia ulmoides</i> Oliv.) AS Feed Additives For Animals ” Gao Zhenchuan (The Institute of Animal Science Chinese Academy of Agricultural Sciences, China)
[PL-4] 11:45 - 12:45	Chairperson: Takahiko Fujikawa (Mie University, Japan) ----- “The Constituents and Pharmacological Activities of <i>Eucommia ulmoides</i> Bark ” Takeshi Deyama (Yomeishu Corp. Central Research Institute, Japan)

Aug. 7th (Sun.)

[PL-5] 8:00 - 9:00	Chairperson: Koichiro Gyokusen (Kyushu University, Japan) ----- “Plant Biomass: Green Gold in the 21st Century” Atsuhiko Shinmyo (Nara Institute and Science Technology, Japan)
[PL-6] 9:00 - 10:00	Chairperson: Che Qingming (Beijing University, China) ----- “trans-Rubber of <i>Eucommia ulmoides</i>” Akio Kobayashi (Osaka University, Japan)
[PL-7] 14:30 - 16:00	Chairperson: Akio Kobayashi (Osaka University, Japan) ----- “Paradigm shifts in lignan/lignin forming processes ” Norman G. Lewis and Michael Jourdes (Washington State University, USA)
[PL-8] 16:00 - 17:00	Chairperson: Ma Xihan (North Western Agriculture and Forestry University, China) ----- “Insight into Materials-Engineering of <i>Eucommia ulmoides</i> Gum” Yan Ruifang (The Institute of Chemistry of Chinese Academy of Sciences, China)

Poster presentation

Poster session 1:

[Analysis, Pharmacology, Tissue Culture, Transgenic, and Others]

Aug. 6th (Sat.) 14:45 – 16:45

- [P1-1] **Comparative Study on the Secondary Metabolites and Their Extraction Methods from the Perennial and Annual Bark of *Eucommia ulmoides* Oliv.**
Su Yinquan, Xu Yongmei, Dong Juan'e, Peng Feng
- [P1-2] **Seasonal Variations of Eucommiol in *Eucommia* Leaves and the Amount Changes in the Cortexes**
Che Qingming, Peng Jinnian, Su Yinquan, Dong Juan'e
- [P1-3] **Simultaneous Determination of Three Kinds of Iridoids Compounds in *Eucommia ulmoides* Oliv. by RP-HPLC**
Peng Mijun, Fu Xinghui, Zhang Min, Zhou Chunshan
- [P1-4] **Pharmacodynamic Studies of GSBJN Preparation Including Du Zhong**
Yang Zhonglin
- [P1-5] **Clinical Threshold Level about Blood Pressure Regulation of The *Eucommia* Leaf**
Yoshihisa Nakazawa, Shigenori Onizuka, Chiho Ando, Shinya Tukamoto, Yasuyo Yamaguchi, Taro Ueda
- [P1-6] **Hypotensive Effects of Beverage Containing "Eucommia Leaf Glycoside" on High Normal Blood Pressure and Mild Hypertensive Subjects**
Shinya Tsukamoto, Yasuyo Yamaguchi, Taro Ueda, Osami Kajimoto, Yoshihisa Nakazawa, Satoshi Nakagawa, Yoshitaka Kajimoto
- [P1-7] **Effect of *Eucommia* Leaf (*Eucommia ulmoides* Oliver; Du-Zhong Ye) Extract on Blood Pressure**
Yasuyo Yamaguchi, Naomi Kawamura, Tetsuya Hirata, Taro Ueda, Chie Tagawa, Yoshihisa Nakazawa, Shigenori Onizuka, Eijiro Tagashira, and Sansei Nishibe
- [P1-8] **Vasodilator Mechanisms of *Eucommia ulmoides* Oliv. Leaf Extract in the Rat Mesenteric Resistance Artery**
Yukiko Otonashi, Satoko Uchibori, Jin Honghua, Chie Tagawa, Yoshihisa Nakazawa, Shigenori Onizuka, Naomi Kawamura, Takashi Tsuboi, Fusako Takayama, Hiromu Kawasaki
- [P1-9] **Anti-Obesity Effect of *Eucommia* Leaf**
Chiho Ando, Takeo Kobayashi, Tetsuya Hirata, Yasuyo Yamaguchi, Taro Ueda
- [P1-10] ***Eucommia ulmoides* Oliver as A Prophylactic for Restraint Stress in Water-induced Gastric Erosion in Rats**
Takahiko Fujikawa, Masato Ogata, Takashi Tsuboi, Naoko Kawamura, Sansei Nishibe
- [P1-11] **Genetic Transformation of *Eucommia ulmoides* Oliv. with Late Embryogenesis Abundant Protein gene**
Junli Wang, Piling Chen
- [P1-12] **A Study on Callus Culture and Secondary Metabolites of *Eucommia ulmoides* Oliv.**
Li Yan , Ding Hongru, Ma Xihan

- [P1-13] **Efficient Regeneration of *Eucommia ulmoides* Oliver Plant from Hypocotyl Explant**
Ren Chen, Sachiko Namimatsu, Yoko Nakadozono, Yoshihisa Nakazawa, Koichiro Gyokusen
- [P1-14] **A Study on the Preparation of the Functional Tea with the Male Flowers of *Eucommia ulmoides***
Dong Juan'e, Ma Xihan
- [P1-15] **Industrialization of the Production of Bioactive Constituents from the Leaves of *Eucommia ulmoides***
Ma Xihan
- [P1-16] **The Constituents of *Eucommia* Leaves and Their Antibiotic Activities**
Ji Zhiping, Su Yinquan
- [P1-17] **An Antifungal Peptide from the Bark of *Eucommia ulmoides* Oliv Against *Candida albicans* in vitro**
Shihui Liu, Degang Zhao, Yuzhen Han
- [P1-18] **Isolation and Identification of Endophytic Fungi from *Eucommia ulmoides***
Ma Yangmin, Zhu Hongwei, Su Yinquan, Shi Qinghua, Li Ya
- [P1-19] **A Study on the Dispersion Rules of *Eucommia ulmoides* Pollens**
Su Yinquan, Ji Zhiping, Gyokusen Koichiro
- [P1-20] **Expectations for the Utilizations of Magical Du Zhong**
Wang Baiming
- [P1-21] **Effect of the Feeding *Eucommia ulmoides* to Chicken**
Masanori Kuwamori

Poster session 2: [Rubber and Others]

Aug. 7th (Sun.) 10:00 – 12:00

- [P2-1] **A Study on the Differences of EU Rubber Obtained From Different Ways**
Ma Xihan, Du Lina, Li Xuehong, Takeshi Bamba, Yoshihisa Nakazawa
- [P2-2] **A Study on the Rules of Synthesis and Accumulation of Gutta-percha in the Leaves of *Eucommia ulmoides***
Dong Juan'e, Zhang Kangjian, Liang Shufang, Ma Xihan
- [P2-3] **Trans-polyisoprene Content and Its Molecular-weight Distribution in Various Cultivars of *Eucommia ulmoides* Oliver**
Li Xuehong, Yue Jie, Shi Qinghua, Takeshi Bamba, Yoshihisa Nakazawa, Eichiro Fukusaki, Akio Kobayashi, Su Yinquan, Ma Xihan
- [P2-4] **Development of Root Culture System of *Eucommia ulmoides* Oliver for the Evaluation of Polyisoprene Biosynthesis**
Sachiko Namimatsu, Takeshi Bamba, Ren Chen, Yoko Nakadozono, Yoshihisa Nakazawa, Koichiro Gyokusen
- [P2-5] **Functional Analysis of the *Eucommia* Seed**
Yoshihisa Nakazawa, Takeshi Bamba, Xuehong Li, Yoko Nakadozono, Takashi Nishikawa, Sachiko Namimatsu, Ren Chen, Koichiro Gyokusen, Eichiro Fukusaki, Akio Kobayashi
- [P2-6] **Separation of Ployprenols by Monolithic Silica Column in High-performance Liquid Chromatography**
Takeshi Bamba, Eiichiro Fukusaki, Hiroshi Minakuchi, Yoshihisa Nakazawa, Akio Kobayashi
- [P2-7] **Analysis of Ployprenols by Supercritical Fluid Chromatography**
Takeshi Bamba, Eiichiro Fukusaki, Yoshihisa Nakazawa, Koichi Ute, Tatsuki Kitayama, Akio Kobayashi
- [P2-8] **Contribution of Mevalonate and Methylerythritol Phosphate Pathway to Polyisoprenoid Biosynthesis in *Eucommia ulmoides* Oliver**
Takeshi Bamba, Yoshihisa Nakazawa, Koichiro Gyokusen, Hiroshi Okumoto, Ei-ichiro Fukusaki, Akio Kobayashi
- [P2-9] **In Situ Localization of Polyisoprene in *Eucommia ulmoides* Oliver**
Takehi Bamba, Eiichiro Fukusaki, Yoshihisa Nakazawa, Akio Kobayashi
- [P2-10] **EST Analysis of Trans-rubber Producing Plant, *Eucommia ulmoides* Oliver**
Takashi Nishikawa, Ei-ichiro Fukusaki, Atsushi Yamashita, Masahira Hattori, Naotake Ogasawara, Yoshihisa Nakazawa, Takeshi Bamba, Akio Kobayashi
- [P2-11] **Polyloid Induction of *Eucommia ulmoides* and Comparison of Its Metabolite with Diploid**
Yoko Nakadozono, Takeshi Bamba, Ren Chen, Sachiko Namimatsu, Yoshihisa Nakazawa, Koichiro Gyokusen
- [P2-12] **Dynamic of Gutta-percha Formation and Accumulation in Samara Associated with *Eucommia ulmoides* Oliv.**
Du Hongyan, Du Lanying, Li Fangdong
- [P2-13] **Variation Dynamic of Gutta-Percha Characters Containing in Samara from Different *Eucommia ulmoides* Variance-Types**
Du Hongyan, Sun Zhiqiang, Du Lanying, Fu Jianmin

- [P2-14] **Variation Dynamic of Characters of Samaras Containing Gutta-percha from Different Producing Areas Associated with *Eucommia ulmoides***
Du Hongyan, Li Fangdong, Du Lanying
- [P2-15] **Individual Variations of Gutta-percha Content in Samaras Associated with *Eucommia ulmoides* Oliv.**
Du Hongyan, Du Lanying, Yang Shaobin
- [P2-16] **Damping Properties of *Eucommia ulmoides* Gum and Its Blends**
Xue Zhaohong, Zhang Jichuan, Li Xiang , Yan Rufang
- [P2-17] **New Damping Materials of Multicomponent Latex Interpenetrating Polymer Networks (LIPNs) Based on EU Gum**
LiXiang, Zhang Jichuan, Xue Zhaohong, Yan Ruifang, Fang Shibi
- [P2-18] **Modification of *Eucommia ulmoides* Resin (EUR) to Three General Rubbers**
Zhang Jichuan, Xue Zhaohong, Yan Ruifang
- [P2-19] **The Method of Producing Extract Powder, Rubber, Colophony and Organic Fertilizer Serially from *Eucommia* Leaves**
Li Baogang