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drugs:

1st International Conference of Health and Longevity Sciences

University of Shizuoka Global COE Program

Yaku-shoku Dogen, 'Medicine and Food, Sharing a Common Origin'

University of Shizuoka December 18-19, 2008

Lecture Room 13411, University of Shizuoka
52-1 Yada, Suruga-ku, Shizuoka 422-8526, Japan

Workshop:
Comprehensive Lectures for Students
13:30-17:40, December 18 (Thursday)

Symposium:
Yaku-shoku Dogen, 'Medicine and Food, Sharing a Common Origin'
9:00-17:15, December 19 (Friday)

Speakers:

Ronaldo Ferraris (New Jersey Medical School)
Toshinao Goda (University of Shizuoka)
Naohide Kinae (University of Shizuoka)
Hirokazu Kobayashi (University of Shizuoka)
Norihiro Misawa (Kirin Holdings Co., Ltd.; Ishikawa Prefectural University)
Yasushi Ohizumi (Yokohama College of Pharmacy; Tohoku University; University of Shizuoka)
Richard T. Sayre (Donald Danforth Plant Science Center; The Ohio State University)
Takayuki Shibamoto (University of California, Davis)
Barbara Timmermann (University of Kansas)
Keiji Wakabayashi (National Cancer Center Research Institute)
Mitsuhiro Watanabe (Keio University)
Shizuo Yamada (University of Shizuoka)

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Workshop: Comprehensive Lectures for Students

December 18 (Thursday)

13:30 [Chair: Shizuo Yamada]

Barbara Timmermann (Department of Medicinal Chemistry, College of Pharmacy, University of Kansas):
Functional foods for human health: Ancient knowledge meets modern science

14:30 [Chair: Norio Ohashi]

Takayuki Shibamoto (Department of Environmental Toxicology, College of Agricultural and Environmental Sciences, University of California, Davis):
Food toxicology: Pesticide residues and fungal toxins

15:30

Break

15:40 [Chair: Hirokazu Kobayashi]

Richard T. Sayre (Donald Danforth Plant Science Center; Department of Plant Cellular and Molecular Biology, College of Biological Sciences, The Ohio State University):
Crop biofortification: the BioCassava Plus program

16:40 [Chair: Toshinao Goda]

Ronaldo Ferraris (Department of Pharmacology and Physiology, New Jersey Medical School):
The high fructose corn syrup controversy: from biochemistry to epidemiology

18:30

Reception (Dinner with invited speakers): Hotel Associa Shizuoka (Chinese food) (closed)

Symposium: *Yaku-shoku Dogen*, 'Medicine and Food, Sharing a Common Origin'

December 19 (Friday)

9:00

Opening address

Masaru Nishigaki (President, University of Shizuoka)

9:05

Introduction to Global COE Program, *Yaku-shoku Dogen*

Naohide Kinae (Program Leader, Global COE Program; Vice-President, University of Shizuoka)

9:10

Session 1: Functional foods and food-drug interaction [Chair: Shizuo Yamada]

Speakers:

Barbara Timmermann (Department of Medicinal Chemistry, College of Pharmacy, University of Kansas):
Translational investigation of turmeric supplements for the treatment of experimental arthritis: A review of lessons learned (50 min)

Yasushi Ohizumi (Yokohama College of Pharmacy; Graduate School of Engineering, Tohoku University; Graduate School of Pharmaceutical Sciences, University of Shizuoka)

Nobiletin, a citrus flavonoid reverses learning impairment in model animals of Alzheimer's disease and its mechanism of actions (20 min)

Shizuo Yamada (Global COE Program; Graduate School of Pharmaceutical Sciences, University of Shizuoka)

Is phytotherapy effective for the urinary dysfunction in patients with benign prostatic hypertrophy ? (20 min)

10:40

Break

10:50

Session 2: Nutraceuticals: Nutritional basis for drug application [Chair: Toshinao Goda]

Speakers:

Ronaldo Ferraris (Department of Pharmacology and Physiology, New Jersey Medical School)
Developmental regulation of the fructose transporter GLUT5 in the GI tract (35 min)

Toshinao Goda (Global COE Program; Graduate School of Nutritional and Environmental Sciences, University of Shizuoka)
Gene expression profiles in the peripheral leukocytes as indices of insulin resistance and postprandial hyperglycemia (20 min)

Mitsuhiro Watanabe (Division of Molecular Metabolism and System Medicine, School of Medicine, Keio University)
Bile acids signaling pathway for the control of metabolism: Mechanism and its application (30 min)

12:15
Lunch

13:00
Poster viewing

14:00
Session 3: Plant biofortification [Chair: Hiroshi Noguchi]

Speakers:

Richard T. Sayre (Donald Danforth Plant Science Center; Department of Plant Cellular and Molecular Biology, College of Biological Sciences, The Ohio State University):
Iron biofortification of crop plants, improved strategies (40 min)

Hirokazu Kobayashi (Global COE Program; Graduate School of Nutritional and Environmental Sciences, University of Shizuoka):
Genetic improvement of plants with all plant-derived DNA sequences and its application to polyphenol enrichment (20 min)

Norihiko Misawa (Central Laboratories for Frontier Technology, Kirin Holdings Co., Ltd.; Laboratory of Plant Gene Technology, Research Institute for Bioresources and Biotechnology, Ishikawa Prefectural University):
Carotenoid biofortification of oil crops, rape and flax plants (20 min)

15:20
Break

15:30
Session 4: Food toxicology and safety [Chair: Naohide Kinae]

Speakers:

Takayuki Shibamoto (Department of Environmental Toxicology, College of Agricultural and Environmental Sciences, University of California, Davis):
Toxicants formed during processing, complications and heat treatment (40 min)

Keiji Wakabayashi (National Cancer Center Research Institute) (40 min)
Enhancing effect of hyperlipidemia on colon and pancreatic carcinogenesis and its cancer chemoprevention (40 min)

Naohide Kinae (Global COE Program; Graduate School of Nutritional and Environmental Sciences, University of Shizuoka)
Genotoxic activities of Maillard reaction products and their relationship to diabetic disease (20 min)

17:10
Closing remarks
Yasuyuki Imai

17:15
Activities of Global COE Program: Poster presentation and reviewers' comments
Chair: Naoto Oku
Reviewers: Barbara Timmermann, Yukio Yamori, Masahiro Nishijima, and Toshihiko Osawa

18:40
Buffet: Esta (Shizuoka Prefectural Museum of Art)

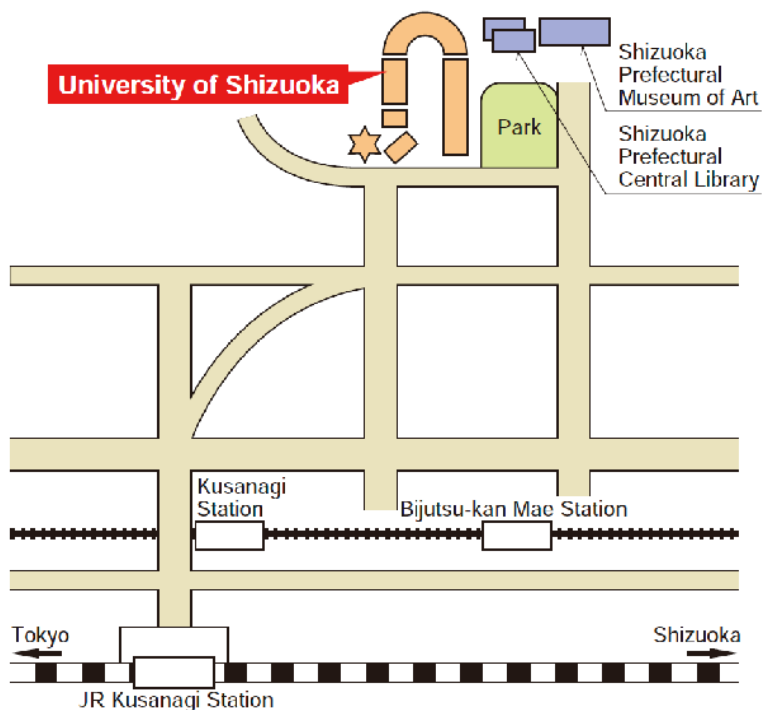
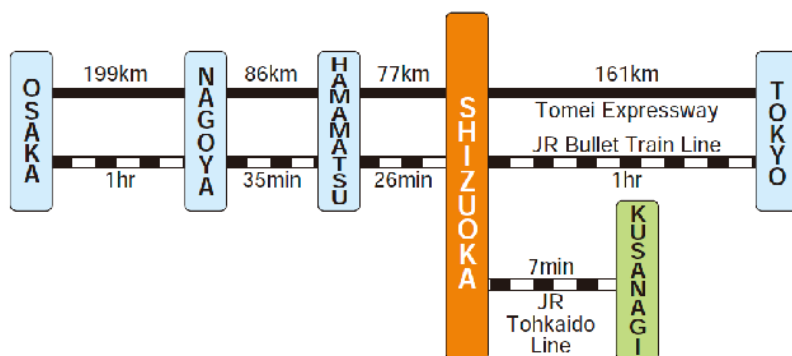
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