

# 琉球大学学術リポジトリ

## [報告書]2nd International Conference on Food Factor (2nd ICoFF) に参加して

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報告書

2<sup>nd</sup> International Conference on Food Factor (2<sup>nd</sup> ICoFF) に参加して

市場 俊雄

沖縄県工業技術センター

1999年12月に京都で開催されたInternational Conference on Food Factor (資料1)に参加しましたのでご報告します。

会場は京都国際会議場(資料2)で、500人あまりの参加者があり、その多くは国内外大学および製薬・食品メーカー関係者であった。

日程は、下記の12月12日から17日までの6日間で、Special Lecture (2題)、Plenary Lecture (8題)、Symposium、PosterおよびLuncheon Seminar (9題)が行われた。資料3としてPosterを除く講演のプログラムを示した。

12月12日(日)

Registration/Welcome Reception

12月13日(月)

Special Lecture, Symposium, Luncheon Seminar

12月14日(火)

Plenary Lecture, Symposium, Poster Session, Luncheon Seminar

12月15日(水)

Symposium, Poster Session, Luncheon Seminar, Banquet

12月16日(木)

Plenary Lecture, Symposium, Poster Session, Luncheon Seminar

12月17日(金)

Symposium

資料3

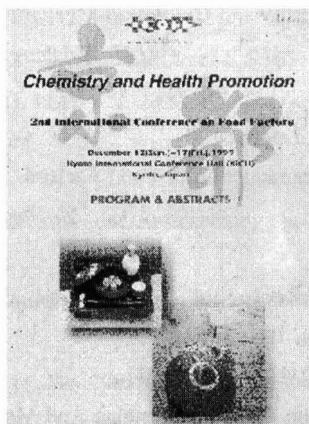
SCIENTIFIC PROGRAM

Opening

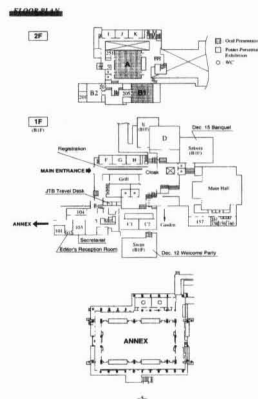
Special Lecture 1

Chair: J.H. Weisburger (U.S.A)

Preventive Dietary Factors of Life Style-Related



資料1 要旨集表紙



資料2 京都国際会議場内部見取り図

Diseases - Recent Results from WHO Cardial /  
Monalisa Study *Y. Yamori (Japan)*

**Special Lecture 2**

**Chair: K. Koshimizu (Japan)**

Chemoprotection Against Cancer By Modulation  
of Phase 2 Enzymes *P. Talalay (U.S.A.)*

**Luncheon Seminar 1: Analysis of Antioxidants  
and Oxidative Stress Markers**

**Chair: S. Watanabe (Japan)**

Analysis of Antioxidants And Oxidative Stress  
Markers

*P.H. Gamache (CT.S.A.) MC.Medical, Inc.*

**Vitamin E**

**OrgaMizer: T. Yoshikawa (Japan)**

**Chairs: M.K. Shigenaga (U.S.A.) and E. Niki  
(Japan)**

Inhibitory Effects of Vitamin E On Leukocyte-  
Dependent Interactions With Endothelial Cells

*N. Yoshida (Japan), T. Yoshikawa, H. Manabe,  
Y. Naito and M. Kondo*

( $\alpha$ -Tocopherol Transfer Protein - A Determinant  
of Plasma Vitamin E Level

*H. Arai (Japan)*

Interaction And Competition Between  $\alpha$ -And  $\beta$ -  
Tocopherol: A Reappraisal

*N. Nognchi (Japan), H. Shi, Y. Xu and E. Niki*  
In Vivo Evidence For Inhibition of Protein Nitration  
And Ascorbate Oxidation by  $\gamma$   $\alpha$ -Tocopherol  
Supplementation

*M.K. Shigerzaga (U.S.A.), e. Jiang, S. Christen,  
J Lykkefeldt and B.N. Altes*

Plasma  $\alpha$ -Tocopherol Level In Diabetes Mellitus

*H. Tanzai (Japan), H.S. Kim, M. Hozumi, T. Kitano,  
T. Murata anti T. Morinobll*

**Minerals and Trace Elements**

**Organizer: M, Yoshida (Japan)**

**Chairs: M, Abdulla (France) and T, Suzuki  
(Japan)**

The Concept of Intracellular-, Extracellular-, And  
Bone-Minerals *M, Nishimuta (Japan)*

Food Systems-Based Approaches To Improving  
Micronutrient Nutrition

*G,F, Conzbs, Jr, (U.S.A.)*

Role of Diet Modification In Cancer Prevention

*M, Abdulla (France)*

The Problem of High Phosphorus Intakes For  
The Utilization Of Another Mineral

*R, Masuyama (Japan) and K. Suzuki*

Influence of Food Ingredients On The Iron Availability

*H, Tsuchita (Japan)*

Zinc Dlficiency And Taste Dysfunction

*M, Komai (Japan), T. Goto and Y. Furukawa*

**Plenary Lecture 1**

**Chair: M. Namiki (Japan)**

Functional Food Science In Japan: State of The  
Art *S, Arai (Japan)*

**Plenary Lecture 2**

**Chair: H. Kobayashi (Japan)**

Prevention of Cancer And Other Chronic Diseases  
Worldwide Based On Sound Mechanisms

*J,H, Weisburger (U.S.A.)*

**Plenary Lecture 3**

Signal Transduction of Food Factors

*Z, DonR (U.S.A.)*

**Plenary Lecture 4**

**Chair: N. Ito (Japan)**

**Chair: T. Hoshi (Japan)**

Prevention of Carcinogenesis And Metastasis By  
Bovine Lactoferrin

*H, Tsuda (J~rl~an), K. Sekine, Y. Ushida,*

*T. Kuhara, N. Takasuka, M. Iigo anti*

*H. ToriL·ama-BaDa*

**Luncheon Seminar 3: Health Benefits of Garlic**

**Chair: R, T. Rosen (U.S.A.)**

Variables Affecting Gari,Tc Constituents And Its Health Benefits

*H, Amagase (Cr.S.A.), Wakunaga Phannaceutical Co., Ltd.*

**Recent Topics in Cancer Prevention**

**Organizer: H. Ohigashi (Japan)**

**Chairs: D.M. Shankel (U.S.A.) and H. Hayatsu (Japan)**

Food Containing Phytoestrogens, And Breast Cancer

*H, Adlercreutz (Finlaizd), W. Mazur, K. Sturly~A. Kilkine~a, P. Pietinen, K. Hulten and G. Hallrans*

Dietary Intake And Cancer Mortality In Japan Y. Matsumura (Japan)

*N. Yoshiike, T. Yoko, ama and H. Tanaka*  
Chemopreventive Effects of Coffee Bean And Rice Constituents Oncolorectal Carcinogenesis

*H, Mori (Japan), K. Kawata, K. Matstlrtaga, J. Ushida, K. Flrjii, A. Hara, T. Tanaka andH. Mumi*

Chemopreventive And Chemoprotective Effects of Antioxidative Dietary Plant Phenolics

*Y.J. Surh (Korecl), S.S. Ilan, K.S. Chr (n, Y.S. Kellnl, I.H. king, J.H. Kinl, Y.J. Hrrrh, H.J. Sec, anrl S.S. Lee*

Role Of Antimutagens/Anticarcinogens In Cancer Prevention

*D,M. Shartkel (I~S.n.), S.P. Pilbmi and L.A. Mirsclher-*

Prevention of The Formation of Mutagenic And/OR Carcinogenic Heterocyclic Amines By Food Factors

*K, Kikugawa (Ja,an)*

Cox-2 And Inos, Good Targets For Chemoprevention

*K, Wcrkahayashi (Japan)*

**Luncheon Seminar 4: The Subject of Study for the Extracted Material from Fermented Rice Germ and Soybean**

Protective Role of Fermented Rice Germ And Soybean Extracts In Oxidative Stress Using Diabetic Rats  
*T. Osawa (Japan) and N. Tslrjihara*  
Preparation Chemical Comporation And Function of Fermented Rice Germand Soybean

*A. Takada (Japan)*

Introduction of Commercially Available Products

*C. Mon'ntatsu (Japan)Toyo Hakko Co., Ltd.*

**Peptides and Amino Acids**

**Organizer: M. Miwa (Japan)**

**Chairs: A. W. Lipkowski (Poland) and T. Ogawa (Japan)**

Physiological Significances For Paticular Amino Acid Intake In Rats Under Various States Of Nutrition

*K. Torii (Japan), T. Kondoh, M. Mori, A. Niijinla and T. Ono*

Bioactive Peptides Derived From Food Proteins Preventing Lifestyle-Related Diseases

*M, Yoshikawa (Japan)*

Protein Hydrolysates For Oral Tolerance

*A. W. Lipkowski (PolLtn~l), B. Barclnowskcc, L~ML(I.CZilk, ;r. Bierzkowski, B. K~t~iurko,vska-Patzer, B. Gcrjkowsku and M. Barcikotvska*

Anticancer Activity of Hydrophobic Peptides From Soy Proteins

*S.E. Kinz, H.H. Kinz, J Y. Kim, Y.I. Kang, H.J. Woo and H.J. Lee (Korea)*

Apoptosis Induction To Cancer Cells By An Novel Anti-Cancer Protein From Edible Mushrooms

*Y. Kawanzura (Japan), M. Manabe and K Kitta*  
Development of Functional Foods Based On Physiological Activity of Amino Acids And Peptides In Japan -- A Review  
*M. Miwa (Japan)*

## Flavones and Flavonols

**Organizers:** K. Kanazawa and A. Murakami (Japan)

**Chairs:** P. C.H. Hollman (The Netherlands) and A. Nishikawa (Japan)

Respective Bioavailability of Quercetin Aglycon And of Its Glycosides In A Rat Model

*C. Morardt (France), C. Manach, V. Crespy, C. Demigne' and C. Re'me's ~*

Factors Affecting Flavonoids Absorption

*M.K. Piskula (Poland)*

Metabolic Fate of Luteolin And Its Functional Activity At Focal Site

*K. Shimoi (Japan), N. Saka, K. Kaji, R. Nozawa and N. Kinai*

Citrus Nobii, Etin Suppresses Phorbol Ester-Induced Skin Inflammation, Oxidative Stress, And Tumor-Promotion In Mice

*A. Murakami (Japan) Y. Nakamura, K. Koshimizu and H. Ohisashi*

Mechanisms Involved In The Chemoprevention of Flavonoids

*M.H. Siess (France), A.M. Le Bon, M.C. Canivenc-Lavier ar?d M. Suschetet*

Suppressive Effects of Flavonoids On Dioxin Toxicity

*H. Ashida (J~an)*

## Luncheon Seminar 5: Novel Biochemical Measurements for Aging Control

**Chair:** T. Yoshikawa (Japan)

Immuno-Histochemistry Using Anti-8-OHdg Monoclonal Antibody For The Detection of Oxidative DNA Damages In Tissue And Organs

*S. Toyokanni (Joprrn)*

8-OHdG Elisa Kit As An Effective Measuring Tool of Oxldative DNA Damage

*J. Knrasltige (J~l~ r an)*

JAICA Health Profiles For The Prevention From Aging And Disease

*S.Sn' Kantha (Japan)*

*Japan Irzstitute for the Control of Aging*

## Isoflavones

**Organizer:** S. Watanabe (Japan)

**Chairs:** H. Adlercreutz (Finland) and K. Shinohara (Japan)

Isoflavonoids: Regulation of The Biosynthesis And Their Physiological Function In Soybean Cells

*H. Ohta (Japan), H. SLleoka, G. Suzuki, Y. Takeuchi,*

*T. Akashi, S. Ayabe, H. Shimada, T. Masuda, T. Kato, D. Shibata and K. Takamiya*

Mechanisms of Action of Isoflavonoids

*S. Barnes (U.S.A.), H. Kim, J. Xu, B. Boersnta, R. Parel, M. Kirk and V.M. Darlev-Usmar*

Comparison of Plasma And Urinary Phytoestrogens In Japanese And Finnish Women By Time-Resolved Fluoroimmunoassay

*M. Llehara (Japan) and H. Anlercr Putz*

Effgcts of Isoflavone Supplement On Healthy Women

*S. Watarrrtrlie (Jrrpart) anti K. Ternshimu*

Dietary Soy Modulates Alzheimer's-Relevant Phosphorylaton of Ttle Brain Protein Tau

*H. Kim (Cr.S.A.), H. Xia, L. Li and J. Gewin*

The Effects of Soy Protein On Men & Women With Elevvated Plasma Lipids

*J.A. Enen (Australia), R. Mackey and A. Ekangaki*

Modulation of Cell-Cell Communication In The Cause And Chemoprevention / Hemotherapy Of Cancer

*J.~ Trosko (U.S.A.)*

## Dietary Fibers, Oligosaccharides, Polysaccharides

**Organizer:** H. Ishikawa (Japan)

**Cihairs:** L. Prosky (U.S.A.) and K. Tazawa (Japan)

Anti-Ulcer Effects And Biological Activities of Polysaccharides From Marine Algae

*M. Nagaoka (Japan), H. Shibata, I. Kimura-Takagi, S. Hashimoto, R. Aiyanza, S. Ueyanza and*

*T. Yokokura*

Anti-Tumor Polysaccharides From Mushrooms

*M. Mizuno (Japan)*

Butyrate; As A Model For "Gene-Regulating Chemoprevention"

*Y. Sou~a, K. Nakano and T. Sakai (Japan)*

When Is Dietary Fiber Considered A Functional Food?

*L. Prosky (U.S.A.)*

Interventional Trial For Colorectal Cancer Prevention In Osaka

*H. Ishikawa (Japan)*

Going Against The Grain? Current Status Of The Dietary Fiber-Colorectal Cancer Hypothesis

*A. Schatzkin (U.S.A)*

**Luncheon Seminar 6: Availability of Japanese Food Stuff**

**Chair: K. Kanazawa (Japan)**

Functional Effects And The Applications of Isoflavone From Japanese Traditional Foods

*T. Uesugi (Japan)*

The Traditional Utility Of Konbu (*Laminaria Japonica*) In Japan And Its New Function

*A. Konloto (Japan)*

High And Low Molecular Biofactors In Some Edible Mushrooms

*A. Misaki (Japan)*

Green Tea Polyphenols-Nutraceutical And Technological Functions

*L.R. Juneja (Japan) Japan Food Research and Development Institute Co., Ltd.*

**Lipids**

**Organizer: T. Matoba (Japan)**

**Chairs: H. Osmundsen (Norway) and K. Inzaizumi (Japan)**

Metabolic Effects of Dietary Fish-Oil

*H. Osmurtdsen (Norway)*

Effect of Dietary  $\alpha$ -Linolenic Acid On The Activity And Gene Expression of Hepatic Fatty

Acid Oxidation Enzymes *T. Ide (Japan)*

Dietary Docosahexaenoic Acid Does Not Promote Tissue Lipid Peroxide Formation To The Extent Expected From The Peroxidizability Index

*M. Ssito (Japan)*

Role of Dietary Lipids In Arteriosclerosis In Experimental Animals

Platelet-Activating Factor (PAF)-Like Oxidized Phospholipids: Relevance To Atherosclerosis

*A. Tokumura (Japan), T. Sumida, M. Tolljinta, K. Kogure and K. F~kuzawa*

Relationship Between Fatty Acids And The Endocrine System *S.J. Bhatherta (U.S.A)*

Anti-Stress Effects of DHA

*T. Hanzazaki (Japan), M. Itonzuru, S. Sawazaki and Y. Nagao*

**Plenary Lecture 5**

**Chair: Y Kuroda (Japan)**

Dietary Flavonoids: Bioavailability And Metabolism

*P.C.H. Hollman (The Netherlands) and M.B. Katan*

**Plenary Lecture 6**

**Chair: T. Okuda (Japan)**

Proanthocyanidins And Human Health: Systemic Effects Or Local Effects In The Gut

*A. Scalbert (France), S. D~prez, I. Mila, A.M. Albrecht, J.F. Huneau and S. Rabot*

**Plenary Lecture 7**

**Chair: S. Shibata (Japan)**

Preventive Effects of Drinking Green Tea On Cancer And Cardiovascular Disease

*K. Nakachi (Japan), S. Marsuyama, M. Suganuma And K. Imai*

**Plenary Lecture 8**

Food Allergens And Mucosal Immune System

*S. Karminogawa (Japan)*

**Luncheon Seminar 7:**

Physiological Functions of Cacao Polyphenols  
Physiological Functions of Cacao Polyphenols (1)

*T. Takizawa (Japan)*

Physiological Functions of Cacao Polyphenols (2)

*N. Osakabe (Japan)*

**Catechins**

**Chair: S. Kawakishi (Japan)**

**Chair: T. Osawa (Japan)**

**Meiji Seika Kaisha., Ltd.**

**Organizer: J. Terao (Japan)**

**Chairs: C.S. Yang (U.S.A.) And I. Tornita (Japan)**

Antioxidant Properties Of Tea Catechins And Related Compounds As Scavengers of Reactive Nitrogen Species

*A.S. Partnala (U.K.) And C.A. Rice-Evans*

Absorption, Metabolism And Antioxidant Effects of Tea Catechin In Humans

*T. Miyazawa (Japan)*

Regulation of Intestinal Glucose Transport By Tea Catechins

*M. Shimizu (Japan)*

Mechanistic Study of Green Tea Polyphenols As Cancer Preventives For Humans

*M. Suganma (Jcrpcrn), S. Okabe, N. Sileoka,*

*E. Sueokn And H. Fl~Iki*

Mechanisms of Inhibition of Carcinogenesis By Tea

*C.S. Yang (U.S.A.), G. Y. Yang, J Y. Chung*

*And M.J. Lee*

Tea Catechins And Related Polyphenols As Anti-Cancer Agents

*M. Isemura (Japan), K. Saeki, T. Kinznra,*

*S. Ha~Akawa, T. Minami And M. Sazuka*

**Luncheon Seminar 8: Life Style Related Disease Prevention By Multicarotene**

**Chair: H. Nishino (Japan)**

Life StylereLATED Disease Prevention By Multicarotene

*F. Khachik (U.S.A.), Ainway Japan Ltd., Koyo Mercantile Co., Ltd., Kyowa Hakko Kogyo Co., Ltd., Lion Co., Lyco Red Natural Products Industries Ltd.*

**Carotenoid**

**Organizer: H. Nishino (Japan)**

**Chairs: J.S. Bertram (U.S.A.) And H. Nishino (Japan)**

Recent Progress In Carotenoid Research On Human Diseases

*Y. Tomita (Japan)*

Cancer Prevention By Natural Carotenoids

*H. Nishirto (Japan)*

Chemoprevention of Lung Cancer By Lycopene (Tomatoes' Carotenoid)

*D.J. Kim (Korea), N. Takasuka, H. Nishino*

*And H. Tsuda*

Carotenoids As Cancer Preventive Agents: Molecular Mechanisms of Action

*J.S. Bertr~M (I~S.A.) Cmrri T.J. King*

Carotenoids And Retinoids As Suppressors On Adipocyte Differentiation Via Nuclear Receptors

*T. Kawada (Japan), Y. Karnei, A. Flrjira,*

*R. Kuzuki, J. Mizukanri, E. Sugir?*

*Zoto Anct T. F~Uhiki*

Inhibition of Diabetic Complication By Carotenoid In Diabetic Rats

*V.C. Ngyen (Japan)*

**Polyphenols**

**Organizer: T. Nakayarrta (Japan)**

**Chairs: J.A. Vinsort (U.S.A.) And N. Nakatani (Japan)**

Chemistry And Function of Vegetable Polyphenols With High Molecular Weights

*T. Yoshida (Japan), T. Hatano And Ii Ito*

Green And Black Tea: Rich Sources of Polyphenolic Antioxidants Which Inhibit Atherosclerosis By Three Mechanisms

*J.A. Vinson (U.S.A.), Y. Dabbagh, N. Wu*

*And K.M. Te~Fel*

The Role of Anthocyanins As An Antioxidant Under Oxidative Stress In Rats

*T. Tsuda (Japan), F Horio And T. Osawa*

Phenolic Antioxidants From Herbs And Spices

*N. Nakatani (Japan)*

Affinity of Polyphenols For Lipid Bilayers

*T. Nakayama (Japan), T. Harhintoto, K. Kajiya,*

*N. Yamada And S. Kumazawa*

Recent Studies On The Biotransformation And Biofunction of Curcumin

*J.K. Lirt (R. O. C.), M.H. Pan And*

*S. Y. Lin-Shiau*

### **Luncheon Seminar 9: Wine And Health - Mercian Wine Seminar**

Wine And Health: Recent Topics On Wine Benefits

*M. Sate (Japan)*

*Chair= H. Kanzbara (Japan), Mercian*

### **Recent Topics In Antioxidative Factors**

**Organizer: T. Osawa (Japan)**

**Chairs: F. Shahidi (Canada) And K. Fukuzawa (Japan)**

Chemistry And Antioxidative Factors In Rosemary Sage And Thyme

*C.T, Ho (U.S.A.)*

Recent Topics In Antioxidative Factors

*K. Yamada (Japan) And H. Tachibana*

Antioxidative Activities of Aroma Essences Isolated From Natural Plants

*K.C. Lee And T. Shibamoto (U.S.A.)*

Antioxidant Factors In Plant Foods And Oilseeds

*F, Shahidi (Canada)*

Generation of Lipid Peroxyl Radicals From Edible Oils And Their Biological Activities: Basic Research For Edible Oils With Antiradical Activity

*Ii. Maeciil (Jerpan), T. Suwa, A. Kanaznwa,*

*S. Morinaurm And K. Kirku*

The Significance of The Jalca-Cenox Oxidative Stress Profiling Techniques In The Evaluation Of

Antioxidant Supplementation And Oxidative Stress Management

*N. Ramatathrtam (U.S.A.), R.Z. Cheng,*

*S.Sri Kantha, M. Takeuchi And Ii Ochi*

Cognitive Decline Is Associated'with Systemic Oxidative Stress In The Elderly: The Eva Study

*C. Berr (France), B. Balansard, M.J Richard,*

*J Ama~Ld, V. Gourlet, A.M. Roussel*

*And A. Alperrovitch*

### **Terpenoid**

**Organizers: H. Ohigashi And A. Murakanzi (Japan)**

**Chairs: C. Ho (U.S.A.) And T. Konoshima (Japan)**

The Induction of Apoptosis And Of A G1 Cell Cycle Block By The Monoterpene Perillyl Alcohol

*M.N. Gould (U.S.A.)*

Citrus Limonoids Obakunone And Limonin Inhibit Azoxymethane-Induced Colon Carcinogenesis In Rats

*T. Tanaka (Japan), M. Maeda, S. Honjo,*

*H. Kohno, T. Ota, M. Tanino, M. Miyake*

*And K. Wada*

The Role of Triterpenoid On Reactive Oxygen Scavenging System; Approach From The New Chemiluminescen System (Xyz System)

*K. Okubo (Japan) And Y. Yoshiki*

Anti-Tumor And Anti-Carcinogenic Activity of Triterpenoids

*M.T. Huang (Ci.S.A.)*

Triterpene Glycosides With Antidiabetogenic Activity From Medicinal Foodstuffs

*M. Yoshikawa (Japan) And H. Matsuda*

### **Sulfur-Containing Compounds**

**Organizer: T. Osawa And Y. Morimitsu (Japan)**

**Chairs: R.T. Rosen (U.S.A.) And K. Kubota (Japan)**

Identification of Metabolites of Garlic And Garlic



Products In Human Body Fluids

*R.T. Rosen (U.S.A.), Z. Zhou And T.C. Artman*  
Antithrombotic And Anticancer Effects of Phyto-  
Organosulfur Compounds

*T. Ariga (Japan), K. Ts~Lji, T. Seki*  
*And J Yamamoto*

Thermochemical Transformation of Sulfur Compounds  
In Japanese Domestic Allium, Allium Victorialis L

*H. Nishimura (Japan), T. Takahashi,*  
*C.H. Wijaya, A. Satoh Anrl T. Ariga*

Functional Properties of Wasabi And Horseradish  
*N. Kinae (Japan), H. Masuda, M. Furugori*

*And K. Shimoi*

Antiplatelet And Anticancer Isothiocyanates In  
Japanese Domestic Horseradish, Wasabi

*Y. Morimitsu (Japan), K. Hayarhi, Y. Nakagawa,*  
*F. Horio, K. Uchida and T. Osawa*

今学会のテーマはChemistry and Health Promotion (化学と健康増進)であった。食物と各種疾病との相関に関する幅広い研究成果の報告がなされ、Special LectureとPlenary Lectureでは、招待講演者により総説的な講演と、最新のトピックに関する講演が行われた。内容は、疫学調査や、法規的な内容、および薬理学、病理学、生理学的なものがほとんどであった(資料3)。

一方Seminarは、トピックごとにセッションを分けてあり、かなり突っ込んだ研究成果の報告や、質疑応答がなされていた。以下に全セッションをリストした。

- ・ Vitamin E
- ・ Minerals and Trace Elements
- ・ Recent Topics in Cancer Prevention
- ・ Peptides and Amino Acids
- ・ Flavones and Flavonols
- ・ Isoflavones
- ・ Dietary Fibers, Oligosaccharides, Polysaccharides
- ・ Lipids
- ・ Catechins

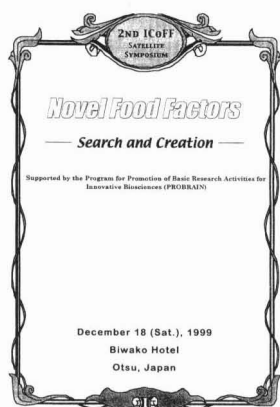
- ・ Carotenoids
- ・ Polyphenols
- ・ Recent Topics in Antioxidative Factors
- ・ Terpenoids
- ・ Sulfer-containing Compounds

一方、Luncheon Seminarは、食品や製薬メーカーの開発研究結果およびその開発製品に関するもので、具体的な開発に関する話があり、たいへん参考になったと共に刺激になった。中でも明治製菓のカカオポリフェノールの研究と製品に関する講演は大変興味深いものであった。

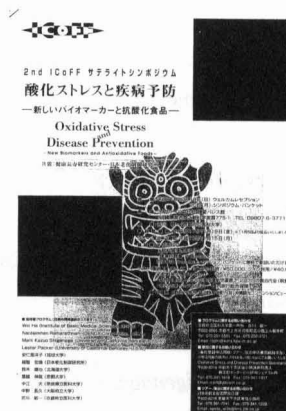
今学会に参加して最も良かった点は、食品や医薬品メーカーが企業ブースを設けており、そこで直接企業の担当者と話が出来たことである。特に薬草エキスをを用いた中間製品を商品化している企業が数社参加しており、エキス製品の市場・製品化・原料供給などの面で意見交換が出来たことは有意義であった。エキス原料に関しては、大手の企業ではほとんど輸入に頼っており、原料の品質や安定供給に問題がある場合もあるということであった。県内薬草企業はこの点で、本土大手企業の製品と差別化できる製品を生産できる可能性がある点から、今後注目したい。

その他では、大手製薬企業の山之内製薬が紅麹を用いて、コレステロール低下、血液浄化などを売りにした健康食品の紹介を行っていた。この製品では豆腐ヨウのイメージを前面に出して製品紹介を行っており、我々は出遅れた感があり残念であった。

薬草エキスをを用いた中間製品を扱うメーカーとして太陽化学、芦川製茶研究所、オリザ油化、カゴメ、カルター・フードサイエンス、東洋新薬、東洋発酵、ヤクルト、常盤植物科学研究所、光洋商会、大愛、ふじっこ、協和発酵、サンウェルがブースを設けたり、セミナーを企画し、サンプルや資料の配布を積極的に行っていた。見ていると、「商談」に近い内容の話をしているところも少なくなかったことから、今後、こ



資料4 大津シンポジウム



資料5 宮古島シンポジウム

の国際食物因子学会や関連の日本食物因子学会で、沖縄から積極的な企業の参加を働き掛けるべきだと感じた。

この学会は、2つのサテライトシンポジウムが行われており（資料4は大津、資料5は宮古島シンポジウムのプログラム集の表紙）、プログラム（資料6は大津、資料7は宮古島シンポジウムのプログラム）を見る限り、非常に興味深いものであるが、経済的な理由（それぞれ参加費4万円）で参加を断念せざるを得なかったことは大変残念であった。

資料6 大津シンポジウムのプログラム

Prospecting for Chemoprotectors against Cancer in Plants *Paul Talalay (U.S.A.)*

Chernoprevention of Cancer by Citrus Monoterpenoids *Michael Gould*

Anticarcinogenesis of Tea Polyphenols through Suppressing Signal Transduction

*Jun-Kun Lin (Taiwan)*

Search for Biological Activity in Eurorean Wild Plants *Seung-shi Ham (Korea)*

Polyphenols and Disease Prevention: Which Ones, How much, InWhich Form ?

*Augustin Scalbert (France)*

Enhancement by Auraptene of Endogenous and Exogenous Hepatocarcinoma in Rats

*Dai Nakae (Japan)*

Evaluation of Cancer-preventive Components in Citrus Resources\* *Masamichi Yano (Japan)*

Development of Novel Rice Accumulating Soybean Proteins with Enhanced Properties

*Shigeru Utsumi (Japan)*

Physiological Engineering of Bioactive Peptides Derived from Food Proteins\*

*Masaaki Yoshikawa (Japan)*

Antiallergic Properties of Tea Catechins and the Metabolites\* *Mitsuaki Sane (Japan)*

Cancer Chemoprevention via Detoxification Enzyme Induction\* *Koji Uchida (Japan)*

Ectopic Expression of Anthocyanin Biosynthesis: Engineering Anthocyanin Accumulation in Endosperm of Rice Grain\* *Tsukahō Hattori (Japan)*

Dietary Flavonoids as in vivo Antioxidants: Modulation of Their Activity by Intestinal Absorption and Metabolic Conversion\* *Junii Terao (Japan)*

Cancer-preventing Activity of Flavones and Flavonols: CYP Inhibition, Antagonism on AhR and Antigenotoxicity *Kazuki Kanazawa (Japan)*

資料6 宮古島シンポジウムのプログラム

*Chair T. Yoshikawa (Japan)*

Free Radicals, Oxidative Stress, Antioxidants And Biomarkers Progress And Unanswered Questions

In 1900's *E. Niki (Japan)*  
 Chair *T.Osawa (Japan)*  
 Bioflavonoid Antioxidants: The Healing Power of  
 Plants *L. Packer (U.S.A.)*  
 Possible Chemoprevention On Oxidative Stress-  
 Mediated Liver Carcinogenesis  
*D. Nakae, A. DenJa and Y. Konishi (Japan)*  
 Chair *H.Nishino (Japan)*  
 Nutritional Modulation of Inflammation-Induced  
 Nitration *M.K. Shigenaga, e. Jiang, S. Christen,  
 J. Lykkesfeldt and B.N. Ames (U.S.A.)*  
 Antioxidant Action of The Mold *Monascus anka*  
 Used For Fermentation of Foods  
*Y. Aniya (Japan)*  
 Plasma Palmitoleic Acid As A Marker of Oxidative  
 Stress *Y. Yamamoto (Japan)*  
 Chair *L. Packer (U.S.A.)*  
 Oxidative Stress Biomarkers For Aging Prevention  
*II, Ochi (Japan)*  
 Chair *S. WarLnabe (Japan)*  
 The Significance of The JaiCA-Genox Oxidative  
 Stress Profiling Techniques In The Evaluation of  
 Antioxidant Supplementation And Oxidative Stress

Management  
*N, Ramaralhnam, R.Z. Cheng, S. Sri Kantha,  
 M. Takeuchi anti H. Ochi (U.S.A.)*  
 Influence of Oxidative Stress On Immune System  
*W. He, R. Feng and H. Ochi (China)*  
 Chair *Ohigashi (Japan)*  
*Englena gracilis*: A Useful Biomarker Candidate  
 For Oxidative Stress And Disease Prevention  
 Study *T. Suzuki, M. Ohta, M. ~atanabe,  
 Y. Kawamura and T. Yamada (Japan)*  
 Effect of Food Restriction On The Immune Function  
*Y. Nakano, J. Matsuzaki and H. ~nzri (Japan)*  
 Recent Progress In Immunohistochemical Detection of  
 Oxidative Molecular Damage *S. Toyokuni (Japan)*

以上今回の学会参加は情報収集、情報交換な  
 どで非常に有意義なものであった。今後日本食  
 物因子学会への加入を含めて、この分野への参  
 加を積極的に検討していきたい。

なお最後になりましたが、今回の学会参加に  
 当たり、南方資源利用技術研究会に参加費をご  
 負担いただきましたことを深謝致します。