ABSTRACTS OF THE 4TH MEMBRANE STRESS BIOTECHNOLOGY SYMPOSIUM

第 4 回 メンプレン・ストレスバイオテクノロジー シンポジウム 要旨集

SEPTEMBER 8, 2006

KANSAI UNIVERSITY CENTENARY HALL YAMATE-CHO, SUITA





Program of the 4th Membrane Stress Biotechnology Symposium

Oral Session

	Presenter	Title	Chairman
9:20	T.Tsuchido	Opening Remark	
9:30	K.Nakata	Identification of Target Sites and Acquired Resistant	Yokota
		Mechanism of Escherichia coli Cells for Antibacterial	
		Surfactants	
9:50	T. Sumitomo	Bacterioclastic Action of a Gemini-Quaternary	Yokota
		Ammonium Compound	
10:10	A.Yokota	Adaptation to Bile Acid and Its Mechanism in	Kuboi
		Lactobacillus gasseri JCM1131T, a Lactic Acid	
		Bacterium Isolated from Human Intestine	
10:50	T.Tsuchido	A Challenge of Membrane Stress Biotechnology for	Kuboi
		Microorganism Control	
11:20	S.Ogihara	Cellular Functions of Annexin: Expansion and Repair	Kuboi
		of the Plasma Membrane	
12:00			
13:00	K.Murofushi	Early Weaning Induces Anxiety and Precocious	Tsuchido
		Myelination in Mice	
13:40	R. Kuboi	Approach on Alzheimer Disease Based on	Tsuchido
		Membranome -Application of Membrane Stress	
		Biotechnology-	

14:10	Break		
14:20	J. Sakamoto	Use of GFP-Based Sensor for Monitoring of Cellular	Umakoshi
		and Membrane Stress in Bacteria	Shimanouchi
14:40	A.Nozawa	Oxidation of Dopamine and L-DOPA by Aβ(1-42)/Cu	Yoshimoto
		Complex on Liposome Membrane	Morita
15:00	T.Hayakawa	Organization of Ceramide Domains in Model	Hayakawa
		Membranes	Matsumura
15:20	M.Yoshimoto	Decomposition of Hydrogen Peroxide Mediated by	
		Phospholipid Bilayer Membranes	
15:40	Y.Ohama	Liposome Membrane Can Modulate Both SOD and	
		CAT Activities of Manganese Porphyrin Complex	
16:00	T.Shimanouchi	Detection of Surface Property of Cells / Liposomes	
		- Analysis of Dielectrophoretic Behavior -	
16:20	R. Kuboi	Closing Remark	
16:30	Poster Preview		
16:40	Poster Session		
17:40	Party		

Poster Session

	Presenter	Title	
(A)	Stress-Response of Bacterial Cells		
1	T. Yoneda	A Role of E Factor Involving in the Membrane	
		Stress Response for the Stress Tolerance of	
		Heat-Injured Escherichia coli	
2	H. T. Bui	The Role of Liposome Membrane on in vitro Gene	
		Expression System	
3	K. X. Ngo	Active Roles of Liposomes and Heat Stress for	
		Enhanced Release of Chitosanase from Streptomyces	
		griceus	
(B)	Membrane-Based	l Materials	
4	Y. Fukuta	Antitumor Activity of Novel-Lectin-Immobilized	
		Vesicle Composed of Non-ionic Surfactant Span80 in	
		the Mouse with Colon26 Tumor toward Human Clinical	
		Application in Drug Delivery System	
5	Y. Ohama	Liposome Membrane Can Modulate Both SOD and	
		CAT Activities of Manganese Porphyrin Complex	
6	L. Q. Tuan	LIPOzyme: Liposome-Recruited Activity of SOD at	
		High Concentration of Hydrogen Peroxide	
7	H. Umakoshi	LIPOzyme for Membrane Process Chemistry	
(C)	Bioconversion Ba	ased on Membrane	
8	D. Ishikawa	Disaggregation of Aβ Fibril with Dopamine and Aβ/Cu	
		Complex with Liposome	
9	A. Nozawa	Oxidation of Dopamine and L-DOPA by Aβ(1-42)/Cu	
		Complex on Liposome Membrane	
(D)	Fatty Acids-Related Response of Membrane		
10	M. Tasaki	Effect of Heterogeneous Membrane Structure on	
		Dopamine Oxidation Catalyzed by Aβ/Cu Complex	
11	H. Uejima	Mode of Killing Action of a Nonionic Surfactant	
		Diglycerin Monolaurate on Yeast Cells	

(E) Novel Characterization Method for Membrane

12	H. Ishii	Detection of Liposome-Protein Interaction on
		Membrane Chip System
13	A. Hiroiwa	Novel Detection Method of Amyloid Fibril Using
		Foluorescence Polarization Method
14	S. Morita	Effects of Fatty Acid on Interaction between Liposome
		Immobilized QCM and Amyloid -Peptide

(F) Spore Surface : Proteinous Membrane

15	S. Yamazaki	Relationship between the Surface Structure and the
		Resistance to Oxidizing Agents of Bacterial Spores
16	Y. Hirai	Polymerization of Amyloid β-Peptides by Tissue Transglutaminase on Liposome Membrane