

BIOTECHNOLOGY AND CHEMISTRY FOR

GREEN GROWTH

独立行政法人日本学術振興会 日独共同大学院プログラム

2012年**3**月**13**日(火)
9:00-17:30

参加無料

14日(水)
10:00-17:05

事務局へ事前登録が必要になります(先着順)

千里ライフサイエンスセンター



大阪大学
OSAKA UNIVERSITY

RWTHAACHEN
UNIVERSITY

DFG Deutsche
Forschungsgemeinschaft



Sponsored by Japan Society for the Promotion of Sciences

Supported by Mitsui Chemicals, Inc., Kaneka Corporation, Mercian Corporation,

Toray Industries, Inc., Asahi Glass Co., Phosphorus Recycling Promotion Council of Japan

Organized by Osaka University Inter-Faculty Group for Frontier of Industrial Biotechnology

13th March

9:00-9:30

Welcome**Prof. Akio Baba** (Vice President, Osaka University)**Ms. Hiroko Takuma** (JSPS, Head, Reserch Cooperation Div.II)**Prof. Sakayu Shimizu** (Toray Industries Inc., NEDO)**Dr. Alexander Olbrich** (Consul General, the Federal Republic of Germany, Osaka-Kobe)**Prof. Toshiya Muranaka** (Head of FIB, Osaka University)

9:30-9:55

Phosphorus Recycling**Willem Schipper** Thermphos International B.V.,
The Netherlands**Phosphate Recycling in the Phosphorus
Industry: a European Perspective**

9:55-10:20

Hisao Ohtake Osaka University, Japan**Phosphate Refinery and Recycling for Green
Growth**

10:20-10:45

Jochen Buechs RWTH Aachen University,
Germany**Continuous Fermentation with Cell Retention of
the Key Intermediate Itaconic Acid by Ustilago
maydis**

10:45-11:00

Break

11:00-11:25

Akihiko Kondo Kobe, University, Japan**Production of Biofuels and Chemicals from
Lignocellulosic Biomass**

11:25-11:50

Mitsufumi Wada Mitsui Chemical, Inc., Japan**Bioproduction of D-Lactic Acid and Isopropyl
Alcohol**

11:50-1:20

Lunch Break

Biocatalysis and Bioconversion

1:20-1:45

Yoshihiko Yasohara Kaneka Corporation, Japan**Multi-Enzyme Systems for the Production of
Chiral Compounds**

1:45-2:10

Lothar Elling RWTH Aachen University,
Germany**Biocatalytic Cascade Reactions for the
Synthesis of Glycoconjugates**

2:10-2:35

Hideharu Anazawa Japan Bioindustry Association**Minimum Genome Factory : Novel Tool for
Breeding Fermentation Strain**

2:35-3:00

Hideki Tohda Asahi Glass Co., Ltd., Japan**Fission Yeast Schizosaccharomyces pombe
Minimum Genome Factory**

3:00-3:25

Coffee Break

3:25-3:50

Ulrich Schwaneberg RWTH Aachen University,
Germany**Protein Engineering by Directed Evolution**

3:50-4:15

Akira Arisawa MicroBiopharm Japan Co., Ltd.**Bioproduction of Calcitriol from Vitamin D3
by Actinomycete Cytochrome P450**

4:15-4:40

Takashi Hayashi Osaka University, Japan**Molecular Mechanism of Water Expelling
Event in Substrate Binding Site of
Cytochrome P450cam**

4:40-5:05

Kenji Sawai Toray Industries, Inc., Japan**Membrane-Integrated Fermentation Reactor
(MFR) System: Application to D-Lactic Acid
Production**

5:05-5:30

Joerg Pietruszka Heinrich-Heine University
Dusseldorf, Germany**Enzymes in Natural Product Synthesis**

14th March

- 10:00-10:25 ●
- 10:25-10:50 ●
- 10:50-11:15 ●
- 11:15-11:30 ○
- 11:30-11:55 ●
- 11:55-12:20 ●
- 12:20-2:00 ○
- 2:00-2:25 ●
- 2:25-2:50 ●
- 2:50-3:15 ●
- 3:15-3:40 ○
- 3:40-4:05 ●
- 4:05-4:30 ●
- 4:30-4:55 ●
- 4:55-5:05 ●

Biomedical Technology

Mitsuru Akashi	Osaka University, Japan	Amphiphilic Poly(amino acid) Nanoparticles for Vaccine Delivery and Immune Adjuvants
Martin Moeller	RWTH Aachen University, Germany	Watersoluble and Waterborne Polymers for Biomedical Technology

Molecular Self-Assembly

Yoshito Tobe	Osaka University, Japan	Control and Dynamics of Porous Self-Assembled Monolayer Formed at Liquid-Solid Interfaces
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Break

Markus Albrecht	RWTH Aachen University, Germany	Stereoselectivity in the hierarchical self-assembly of helicates
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Chemocatalysis

Yoshiya Fukumoto	Osaka University, Japan	Catalytic C-C Bond Formations via Vinylidene Metal Complexes
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Lunch Break

Kazushi Mashima	Osaka University, Japan	End Functionalized Polymerization of 2-Vinylpyridine through Initial C-H Bond Activation by Yttrium Ene-diamido Complexes
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Reiner Anwander	Tuebingen University, Germany	Aspects of Rare-Earth Metal Alkyl Chemistry
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Jun Okuda	RWTH Aachen University, Germany	Green Polymer Synthesis: Stereoselective Metal Catalysts for Lactide Polymerization
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Coffee Break

Masahiro Miura	Osaka University, Japan	Direct Aromatic Coupling under Oxidative Conditions
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Meike Niggemann	RWTH Aachen University, Germany	Calcium Catalyzed Reactions
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Nobuaki Kambe	Osaka University, Japan	Transition Metal Catalyzed Coupling Reactions Using Grignard Reagents
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Closing Remarks

Prof. Jun Okuda	RWTH Aachen University, Germany	
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Access Map



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電車でお越しの方



お車でお越しの方



- 地下鉄(北大阪急行電鉄)
御堂筋線 千里中央行 終点・千里中央下車(北出口すぐ)
- 伊丹空港からお越しの方
大阪モノレール 門真市行 千里中央下車(徒歩約5分)
- 関西空港からお越しの方
 - (1) JR
新大阪駅から地下鉄千里中央行にお乗り換えください。
 - (2) 南海電気鉄道
難波駅から地下鉄千里中央行にお乗り換えください。
- お車でお越しの方
新御堂筋(国道423号線)または、中央環状線をご利用ください。



千里ライフサイエンスセンター

Contact Information

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プログラムのPDF版はこちらからダウンロードできます。

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必須事項 : 氏名・所属・メールアドレス・参加日(13日・14日)