

PROTEIN MALL KANSAI

Collaborative Project for Protein R&D

Aiming to Build a Drug Development Value Chain which Contributes Innovative Technology and New Business in the Kansai Area

ACTIVITY

- (1) Exchange of Information, Organizing of Seminars and Study Sessions among Members
- (2) Supporting to Form Alliances and Consigned Business Between Enterprises Domestic and Abroad
- (3) Planning and Implementing of Collaborative Projects Between Members
- (4) Promoting of "PROTEIN MALL KANSAI"

PURPOSE

- ★ Creating Commercial Opportunities through Advanced Practical Use of Protein-Related Research
- ★ Promoting Collaborative Research
- ★ Encouraging of Consignment Research
- ★ Creating World-Wide Appeal as the Biggest Base of Protein-Related Research in Japan

ORGANIZATION Established on May, 8th, 2009

Chairman

Yukiteru KATSUBE, Ph.D. Chairman of PharmAcess, Inc.

Vice-Chairman

Terutoshi KIMURA, Ph.D. Chairman of PEPTIDE INSTITUTE, INC.

Tsuneaki SAKATA, Ph.D. Director of BioGrid Center Kansai

Directors

Saburo AIMOTO, Ph.D.

Director of Institute for Protein Research, Osaka University

Ikuo FUJII, Ph.D.

Professor of Graduate School of Science, Osaka Prefecture University

Naoto MINAMINO, Ph.D.

Director of Department of Pharmacology, National Cardiovascular Center Research Institute

Ken-ichi AKAGI, Ph.D.

NMR Researcher of National Institute of Biomedical Innovation

Tadashi TAMURA

Consultant of YASHIMA PURE CHEMICALS CO., LTD.

Corporate Auditor of Bio-Sight Capital, Inc.

Yoshiyuki KITANO

Executive Director of "Osaka Bio Headquarters" (Department of Commerce, Industry and Labor, Osaka Prefectural Government)

Members and Cooperative Members

56 Enterprises (as of Mar, 2010)

FUNCTION

■ Contact Point

Exchange of information among Members

■ Introduction and Promotion

Information Provision on Internet and

Publication of Email Newsletter

Publishing Brochures Introducing Member Activity

■ Consulting

Expert Advice for Protein-Related Consigned Business, Business Alliances Promotion, Business-Academia Collaboration

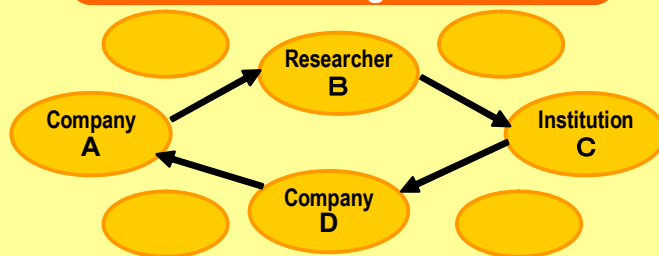
Function of "PROTEIN MALL KANSAI"

Requests and Inquiries from Companies

"PROTEIN MALL KANSAI"
Contact to: Osaka Bio Headquarters

Transmit Requests and Inquires to Members

Alliance among Members



"PROTEIN MALL KANSAI" Members Form a Value Chain that Benefits from Collaborative R&D Projects in Each Expert Field.

Advance Members Alliance

- Joint Development
- Technical Collaboration
- Exchange Technological Information

- in Silico Low-Molecular Compound
- Protein Medicine
- Antibody Medicine
- Peptide Medicine
- Biomarker
- Surrogate Marker etc.

Goal
Top-Level World-Wide Biomedical Cluster

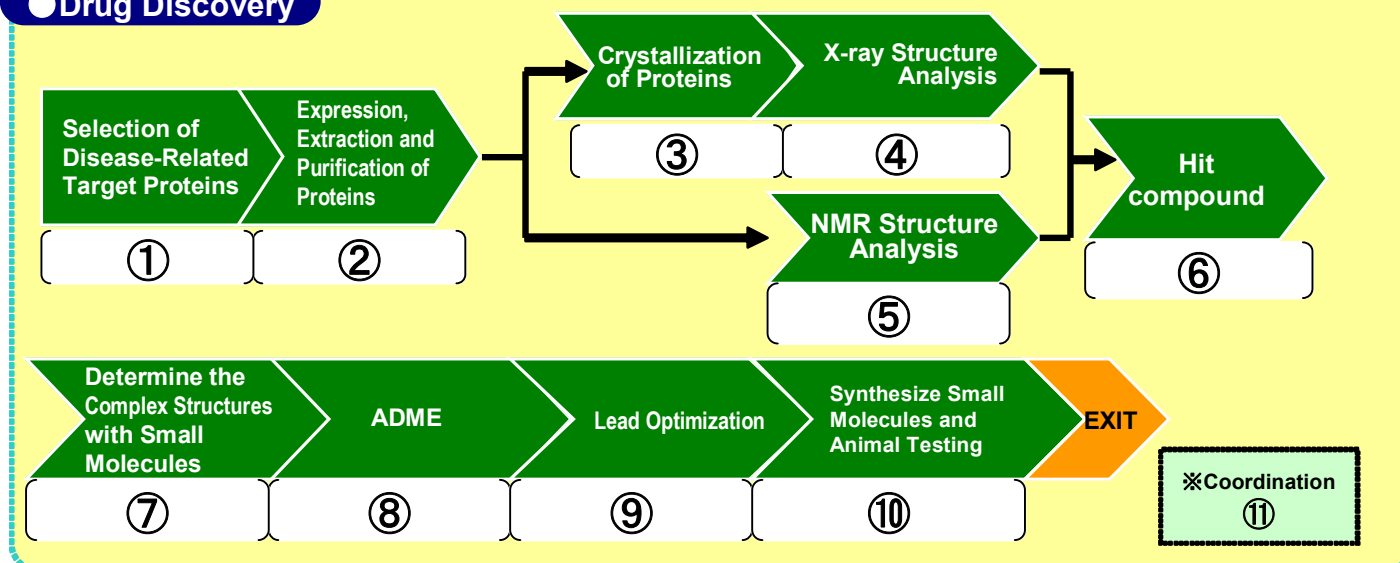
Drug Discovery Collaboration and New Business Development by "Value Chain"

Value Chain is Expected to ---

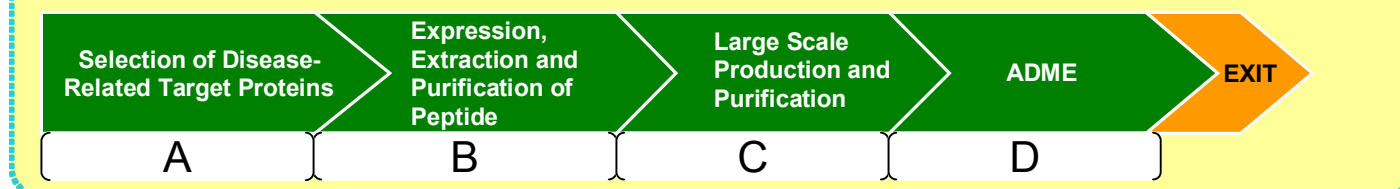
- Grow and Develop Innovative Technology
- Establish a System for Discovering Candidates of Innovative Protein and Peptide Drugs

Sample of Value Chain

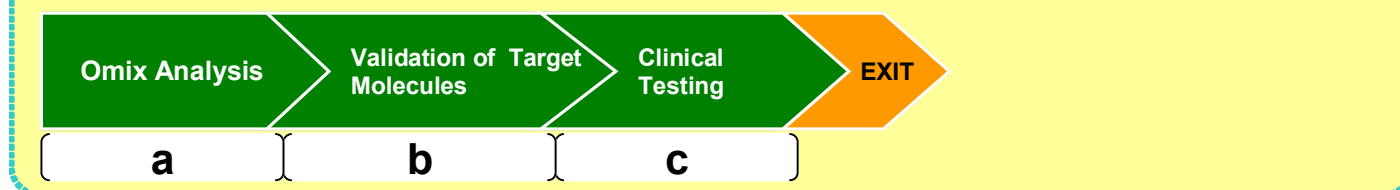
● Drug Discovery



● Protein Drug, Peptide Drug



● Biomarker, Surrogate Marker



“PROTEIN MALL KANSAI” Members

as of Mar, 2010

[] : Indicated the above “Value Chain”

■ Members

AnGes MG, Inc. [①②③④⑤AD]
 BioAcademia, Inc. [②Ca]
 Diagnostics Division of Shionogi & Co., Ltd. [bc]
 Hitachi, Ltd.
 Japan Aerospace Exploration Agency [⑥]
 Kringle Pharma, Inc. [①②③④⑤AD]
 Kyoto Pharmaceutical University Department of Biopharmaceutics
 MG Pharma Inc. [⑥B]
 MITSUWA FRONTTECH CORP. [②③C]
 NARA INSTITUTE of SCIENCE and TECHNOLOGY
 Osaka Prefecture University [⑥⑦⑧B]
 Research Institute of National Cardiovascular Center [①Aabc]
 SANYO FINE CO., LTD. [②③④⑤BC]
 Takara Bio Inc. [①②ABCa]
 Urban Innovation Institute [⑥]
 WakoPure Chemical Industries, Ltd. [②BCa]

ANTICANCER, INC [⑥]
 BioGrid Center Kansai [⑥]
 GenoLac BL Corporation [①A]
 Institute for Protein Research, Osaka University [②③④⑤Ba]
 Japan Synchrotron Radiation Research Institute [⑥⑦]
 Kyoto Constella Technologies Co., Ltd. [⑥⑦ab]
 Kyoto University
 Mie University [①②ABCb]
 Mukogawa Women's University
 NARD Institute, Ltd. [⑥⑦]
 PEPTIDE INSTITUTE, Inc. [②③④⑤BCb]
 Ritsumeikan University
 Senri Life Science Foundation
 THERAVALUES CORPORATION [①Aa]
 Vehicle, Inc. [②BC]
 YASHIMA PURE CHEMICALS CO., LTD.

Asubio Pharma Co., Ltd. [⑥⑦⑧BCD]
 Biomarker Science Co., Ltd. [ac]
 Hamari Chemicals, LTD. [⑥⑦BC]
 Interprotein Corporation [①~⑥]
 KNC Laboratories Co., Ltd.
 Kyoto Monotech Co., Ltd. [①②ABa]
 MABEL Inc. [⑥⑦A]
 Mitsubishi Tanabe Pharma Corporation
 Nagahama Institute of Bio-Science and Technology [②③④⑤⑦⑧A]
 National Institute of Biomedical Innovation [⑥]
 PharmAcess, Inc. [②③④⑤⑦]
 Santen Pharmaceutical Co., Ltd. [⑥]
 SOSHO, Inc. [②③④⑦]
 Toyobo Biologics Inc. [②BC]
 Wakayama Medical University

■ Cooperative Members

Kansai Bureau of Economy, Trade and Industry
 RIKEN Harima Institute RIKEN SPRING-8 Center
 Japan Pharmaceutical Manufacturers Association

Kinki Bio-Industry Development Organization
 Osaka Chamber of Commerce and Industry
 Bio-Sight Capital, Inc.

Hyogo Prefectural Government
 Osaka Pharmaceutical Manufacturers Association
 Osaka Prefectural Government

Contact to : Osaka Bio Headquarters

--Bio-Industry Promotion Division, Department of Commerce, Industry and Labor, Osaka Prefectural Government --

ADDRESS: Senri Life Science Center Building 20F, 1-4-2, Shinsenri-Higashimachi, Toyonaka, OSAKA, JAPAN 560-0082

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