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# タンパク質立体構造の構築原理

第4回ワークショップ予稿集

ABSTRACTS

The Fourth Workshop on Principles of Protein Architecture

December 9-10, 1997 Mishima, Japan

主催：文部省科学研究費重点領域研究「タンパク質立体構造の構築原理」  
領域代表者 郷 信広

Representative, Nobuhiro Gō

世話人：西川 建（遺伝研），有坂文雄（東工大）

Organized by Ken Nishikawa and Fumio Arisaka

## プログラム (PROGRAM)

### December 9 (Tues.)

10:00 - 10:15    Opening Address  
Nobuhiro Go (Kyoto University)

#### *Invited Lectures I*

*Chairperson: Ken Nishikawa*

1L01    10:15 - 11:00    **Structural and Functional Relationships in Protein Superfamilies**  
Tom Blundell (University of Cambridge)

1L02    11:00 - 11:45    **The Cooperative Substructure of Protein Molecules by Native State Hydrogen Exchange**  
S. Walter Englander (University of Pennsylvania)

12:00 - 13:30    Lunch

#### *Poster Session I*

13:30 - 14:30    Presentation of Posters Numbered "A"

14:30 - 15:30    Presentation of Posters Numbered "B"

#### *Invited Lectures II*

*Chairperson: Kunihiro Kuwajima*

1L03    16:00 - 16:45    **GroEL - Mediated Protein Folding: Structure and Mechanism Studies**  
Arthur L. Horwich (Yale School of Medicine)

1L04    16:45 - 17:30    **Function of Chaperonin: Substrate Recognition and Dynamics**  
Masasuke Yoshida (Tokyo Institute of Technology)

18:00 - 20:00    Reception Party

**December 10 (Wed.)**

*Invited Lectures III*

*Chairperson: Nobuhiro Go*

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|------|---------------|---|
| 2L01 | 9:30 - 10:15  | <b>Protein Fold Recognition and Functional Assignment<br/>Based on Physical Chemical Principles</b><br>Barry Honig (Columbia University)  |
| 2L02 | 10:15 - 11:00 | <b>Protein Dynamics Involved in Ligand Entry/Release of<br/>Myoglobin Probed by Time-Resolved Resonance<br/>Raman Spectroscopy</b><br>Teizo Kitagawa (Institute of Molecular Science) |
|      | 11:00 - 11:15 | Break   |
| 2L03 | 11:15 - 12:00 | <b>Architectures of Multi-Protein Systems Probed by<br/>Experiment and Modelling</b><br>Klaus Schulten (University of Illinois)   |
|      | 12:00 - 13:30 | Lunch   |

*Poster Session II*

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|---------------|--------------------------------------|
| 13:30 - 14:30 | Presentation of Posters Numbered "C" |
| 14:30 - 15:30 | Presentation of Posters Numbered "D" |

*Invited Lectures IV*

*Chairperson: Tom Blundell*

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|------|---------------|---|
| 2L04 | 16:00 - 16:45 | <b>Functional Selection: The Booster of Protein Foldability</b><br>Tetsuya Yomo (Osaka University)            |
| 2L05 | 16:45 - 17:30 | <b>Structure, Folding and Engineering of Antibody<br/>Fragments</b><br>Andreas Plückthun (Universität Zürich) |
|      | 17:30 - 17:40 | Closing Remarks   |