



# International Workshop on Metalloprotein Functions

2009年 7 月 31 日(金) - 8 月 1 日(土)  
兵庫県立大学 理学部 研究棟 7階 談話室 (739)

31<sup>st</sup> July (13:00 - 19:30)

#### X-ray Crystallography

D. C. Rees (Caltech, USA)

Crystallographic Refinement of Metal Redox States in Metalloproteins

#### Hemoproteins

J. H. Dawson (Univ. South Carolina, USA)

His93Gly Myoglobin: a Versatile Template for Modeling Heme Protein Active Sites. Applications to Novel Heme Proteins

M. H. Vos (CNRS, Ecole Polytech., France)

Early Events in Heme-based Sensor Proteins Studied by Ultrafast Optical Spectroscopy

J. T. Sage (Northeastern Univ., USA)

Resonant X-ray Absorption by <sup>57</sup>Fe Selectively Probes Structure and Energetics of Heme Proteins

#### Heme Enzymes

A. Grant Mauk (Univ. British Columbia, Canada)

Human Indoleamine 2,3-Dioxygenase: New Inhibitors and Their Functional Consequences

S. Yanagisawa (Univ. of Hyogo, Japan)

Detection of the Iron-Oxygen Stretching Raman Mode for Human Indoleamine 2, 3-Dioxygenase in the Oxygenated Form

1<sup>st</sup> August (9:00 - 16:30)

#### Cytochrome c Oxidase-1

C. Varotsis (Univ. Crete, Greece)

Dioxygen Bond Cleavage Mechanism by Cytochrome c Oxidase: Mechanistic Implications for Proton Translocation

R. Naumann (Max Planck Inst., Germany)

Conformational Transitions of the Cytochrome c Oxidase Discriminated by Spectro-Electrochemistry Using SEIRAS

K. Ishimori (Hokkaido Univ., Japan)

Structural Analysis and Dynamics of Electron Transfer Complex between Cytochrome c and Cytochrome c Oxidase

#### Cytochrome c Oxidase-2

M. Tateno (Tsukuba Univ., Japan)

Exploration of Mechanisms of Proton Transfer in Cytochrome c Oxidase using First Principles Molecular Dynamics

Y. Shigeta (Univ. Hyogo, Japan)

Energy Compensation Mechanism for Protonation States of a Asp-His Pair at Entrance of D pathway in Cytochrome c Oxidase

Y. Naruta (Kyushu Univ., Japan)

Simulation of O<sub>2</sub> Activation/Reduction with Enzyme Active Site Models of Terminal Oxidases

#### Metalloproteins Models

K. D. Karlin (Johns Hopkins Univ., USA)

Copper & Heme-Copper Dioxygen and Nitrogen Monoxide Adducts and Chemistry

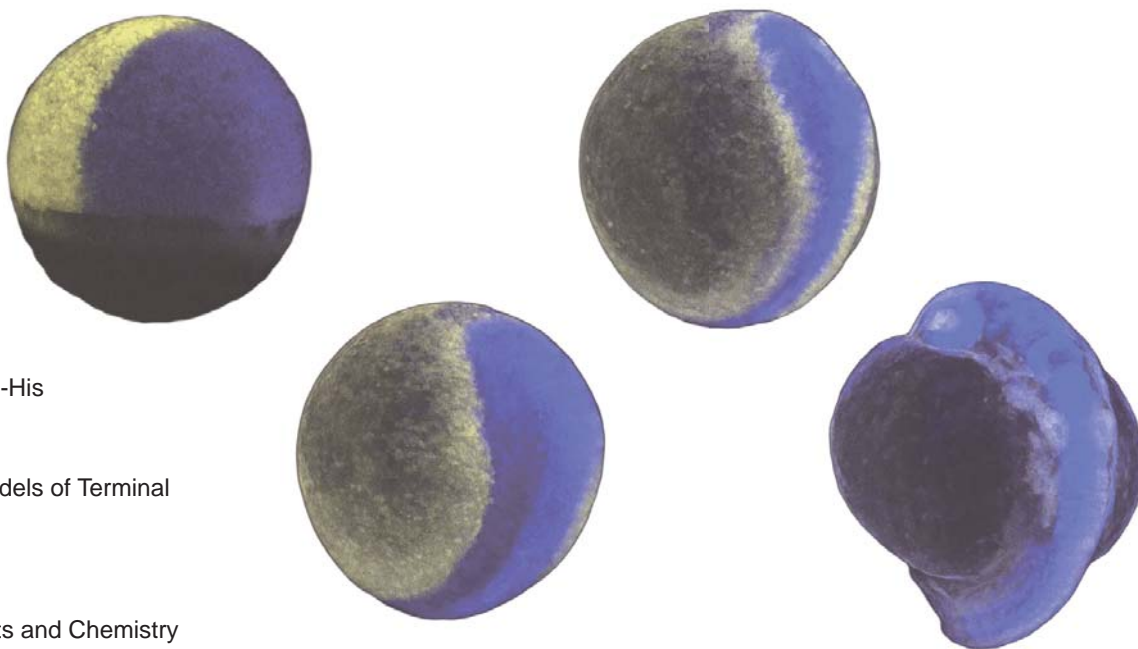
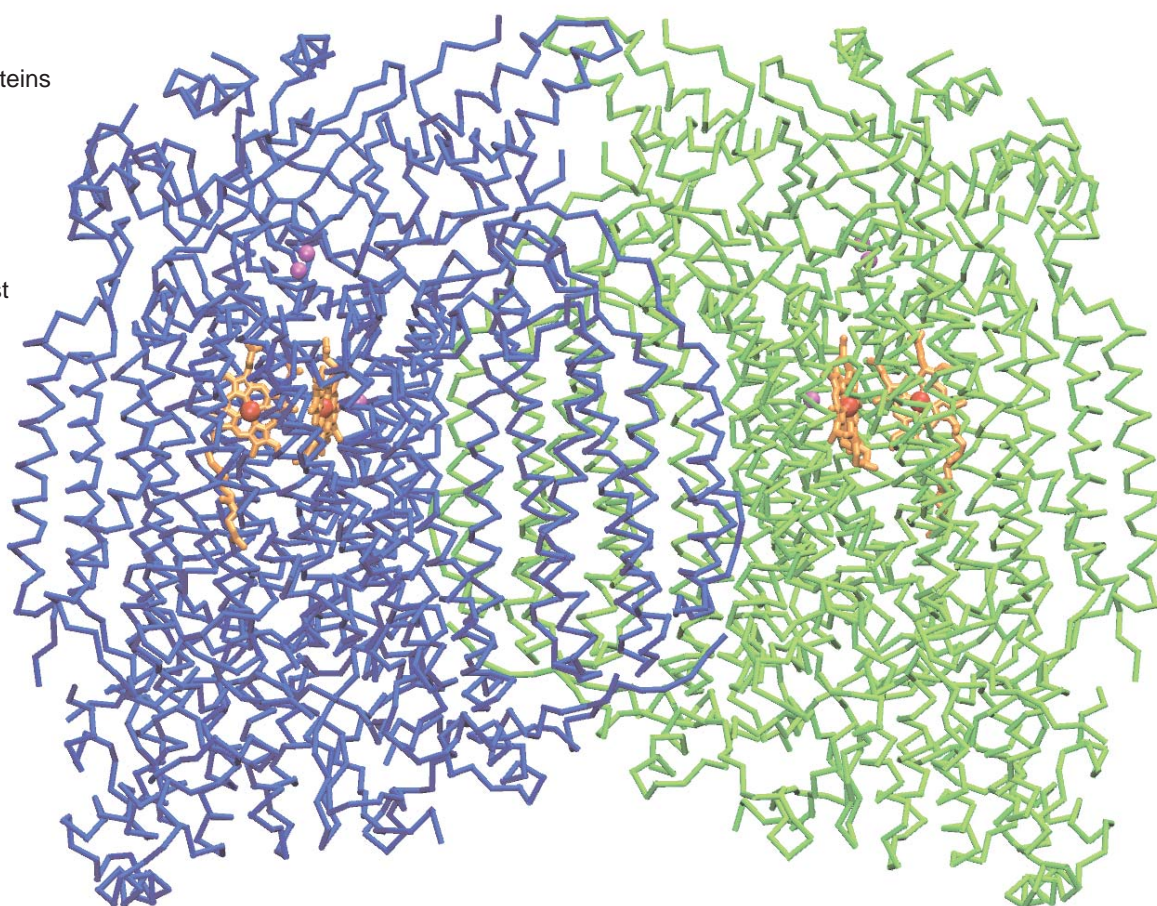
#### Non-Heme Irons and Iron-Chlorins

D. Proshlyakov (Michigan State Univ., USA)

Taurine Oxygenation by TauD

H. Fujii (OIB, Japan)

Functional Role of Heme d<sub>1</sub> in Catalytic Nitrite Reduction by Heme-Containing Nitrite Reductase



Organizers : Teizo Kitagawa, Takashi Ogura and Shinya Yoshikawa

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<http://www.sci.u-hyogo.ac.jp/life/GCOE/index-j.html>