

Workshop of Research Laboratory for Quantum Beam Science on “Radiation Effects on DNA”

Lecture Hall, *The Institute of Scientific and Industrial Research (SANKEN)*, Osaka University

July 26 (Tuesday), 2011

1045-1100 Tetsuro Majima, *SANKEN, Osaka University, Japan*

“Radiation Effects on DNA”

Chair, Kazuo Kobayashi

1100-1130 Kiyohiko Kawai and Tetsuro Majima, *SANKEN, Osaka University, Japan*

“Hole Transfer in DNA”

1130-1200 Mamoru Fujitsuka and Tetsuro Majima, *SANKEN, Osaka University, Japan*

“Excess Electron Transfer in DNA”

Chair, Tetsuro Majima

1315-1330 Goro Isoyama, *SANKEN, Osaka University, Japan*

“Introduction of the Research Laboratory for Quantum Beam Science at SANKEN”

1330-1430 Jean Cadet, *Institut Nanosciences & Cryogénie, CEA/Grenoble, France*

“Radiation-induced damage to cellular DNA: formation and mechanistic insights”

1430-1500 Shigenori Iwai, *Division of Chemistry, Graduate School of Engineering Science, Osaka University, Japan*

“Fluorescence detection of the repair of radiation-induced DNA damage using synthetic oligonucleotides”

Chair, Mamoru Fujitsuka

1530-1600 Kazuo Kobayashi, *SANKEN, Osaka University, Japan*

“Dynamics of Radical Cations of Guanine and Adenine in Duplex DNA Studied by Pulse Radiolysis”

1600-1630 Yo-ichi Yoshida, Takafumi Kondoh, Koichi Kan, Jinfeng Yang, Kimihiro Norizawa,

Atsushi Ogata

SANKEN, Osaka University, Japan

“New quantum-beam development for radiation therapy”

Chair, Tetsuro Majima

1700-1800 Yang Tian, *Department of Chemistry, Tongji University, Shanghai, China*

“Real-time and In vivo Monitoring of Reactive Oxygen Species (ROS) Based on Designed Functional Materials”

1800-1830 Discussion and Closing Remarks

1830 Get-together party