

1975 ICN-UCLA WINTER CONFERENCES IN MOLECULAR AND CELLULAR BIOLOGY, Squaw Valley, California

Sponsored by ICN Pharmaceuticals, Inc., under the auspices of the Molecular Biology Institute of the University of California, Los Angeles.

Attendance at the conferences is by invitation, and invitees will be selected from applications received at the conference office no later than December 1. An application form is printed on the reverse side for your convenience. The cost of attending the meetings is the conference fee of \$50, and the cost of meals and lodging begins at approximately \$85 for economy, double occupancy, with private bath. Full programs for the conferences will appear in the autumn ICN Life Sciences Newsletter and will also be published in a September or early October issue of BIOCHEMISTRY.

Application forms may be obtained from ICN-UCLA WINTER CONFERENCES, Department of Bacteriology, University of California, Los Angeles, CA 90024.

February 23–28: ENERGY TRANSDUCING MECHANISMS (P.D. Boyer, chmn)

The conference will be concerned with the molecular mechanism of energy transduction in mitochondria, chloroplasts, other membranes, and muscle. Particular emphasis will be on interactions in the synthesis and utilization of ATP. An aim of the conference will be to assess the role of protein conformational changes in the formation of ATP by mitochondria and chloroplasts and in the utilization of ATP in energy-linked reductions, muscle contraction and active transport. This will include examination of the identifiable reaction steps, the molecular nature and conformations of proteins and enzymes involved, the mode of action of inhibitors and uncouplers and control mechanisms. Also included will be the mechanisms of capture of oxidative and light energy, and the role of potential and proton gradients in energy transmission.

March 2–7: CELL SURFACE RECEPTORS (G. Nicolson, M. Raftery, M. Rodbell, chmn)

The purpose of the conference will be to bring together investigators in a variety of fields (biochemistry, cell biology, embryology, neurology, endocrinology, reproductive biology, cancer biology, etc.) to discuss current work on *cell surface receptors*. Possible topics or session areas in the conference will be: Cell recognition receptors; Hormone receptors; Nerve transmitter receptors; Cell surface antigens; Lectin and Mitogen receptors; Cell growth receptors; Cooperativity in cell surface receptor interactions; Mechanisms of receptor communication with the cytoplasm; Biogenesis of receptors; Surface display of receptors; Cytoplasmic control of receptor distribution and functions. In addition, several workshops will be planned, for example, in nerve transmission.

March 9–14: DEVELOPMENTAL BIOLOGY (D. McMahon, chmn) – Cosponsored by the National Foundation

The conference will feature formal lecture sessions and workshops focused on two major problems: cell-cell interactions in development, and the regulation of synthesis of gene products characteristic of differentiated cells. The conference will bring together workers studying developmental problems in eucaryotic systems that range from simple experimental models to man. Where appropriate, the conference will consider clinical problems of possible interest to basic developmental biologists. Gordon Tomkins, William Nyhaan, Robert Schimke, Harvey Lodish and Fotis Kafatos will be among the speakers.

March 16–21: DNA SYNTHESIS AND ITS REGULATION (M. Goulian, P. Hanawalt, chmn)

Much is now known about DNA polymerases and several other enzymes that interact with DNA. Additional replication related gene products have been identified but remain incompletely characterized. These components appear to operate in coordinated arrays and complexes to effect the replication of genetic material. In this meeting the known properties of these components will be reviewed along with the features of *in vitro* systems for DNA replication. This will be integrated with current information about replication complexes and intermediates, and the evident temporal and regulatory relationships between replication and cell division. The models for discussion will be chosen from organisms representing a wide range of complexity.

ICN-UCLA CONFERENCE PROCEEDINGS ARE AVAILABLE AS FOLLOWS

Proceedings of the 1973 Membrane Conference
Proceedings of the 1974 Conference on Assembly Mechanisms
Proceedings of the 1974 Membrane Conference
(These are published as special issues of JOURNAL OF
SUPRAMOLECULAR STRUCTURE)

Mechanisms of Virus Disease: ICN-UCLA
Symposia in Molecular and Cellular Biology
(Volume 1, 1974)

Membrane Research: First ICN-UCLA Conference (1972)
Virus Research: Second ICN-UCLA Conference (1973)
The Immune System: Genes, Receptors, Signals:
Third ICN-UCLA Conference (1974)

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