

news THE UNIVERSITY OF TEXAS HEALTH SCIENCE CENTER AT DALLAS

southwestern medical school ■ graduate school of biomedical sciences ■ school of allied health sciences

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******New ways to treat heart attacks and latest looks at heart cell metabolism will be features of medical school symposium.*

DALLAS--A group of the world's foremost authorities on life processes of heart cells will exchange information at a University of Texas Southwestern Medical School symposium here May 19-21.

New concepts of heart attack treatment--including heavy glucose dosage and use of cortisone-like drugs to limit damage--will be discussed.

The symposium, "Regulation of Cardiac Metabolism," will examine what scientists believe are the most exciting areas of research into how heart cells get and use energy. This includes regulation of protein and amino acid metabolism, regulation of utilization of glucose and fatty acids and metabolic regulatory mechanisms in ischemic myocardium (blood deficient heart muscle).

The gathering will be named for Harry S. Moss, the late Dallas oilman whose will provided income from \$6 million to be used by Southwestern in heart research. The American Heart Association is lending endorsement and funds for publication of proceedings.

The scientific organizing committee for the symposium includes Dr. Howard E. Morgan, chairman of the Department of Physiology of the Hershey Medical Center at Pennsylvania State University; Dr. Lionel H. Opie, professor of medicine at the University of Capetown Medical School in Capetown, South Africa; and Dr. Kern Wildenthal, associate professor of physiology and medicine at Southwestern Medical School.

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"In recent years there has been a lot of progress made in understanding the energy processes of normal and diseased hearts," said Dr. Wildenthal, adding, "Now we are in a stage of infancy in applying that knowledge to treatment."

The symposium will bring world leaders in basic research together with authorities in application and treatment.

"It will be twenty five people who can talk and learn and come up with better answers," said Dr. Wildenthal.

Latest ideas in treatment of heart attacks such as cortisone like drugs, adrenal hormones or even sugar solutions will be aired by participants in the meetings.

The May 19 session will deal with "Regulation of Intermediary Metabolism" and will be chaired by Dr. Paul A. Srere, professor of Biochemistry at Southwestern and J.C. Shipp of Omaha, Nebraska. Presentations will include:

"Regulation of Glycolysis" by Peter J. Randle of Bristol, England.

"Regulation of Fatty Acid Utilization" by Jon Bremer of Oslo, Norway.

"Mechanical and Hormonal Control of Cardiac Utilization of Fatty Acids and Glucose" by James R. Neely of Hershey, Pa.

"Oxidative Phosphorylation" by Britton Chance of Philadelphia.

"The Citric Acid Cycle" by John Williamson of Philadelphia.

"Mechanisms of Regulation of Enzyme Activity" by Jay Larner of Charlottesville, Va.

"Metabolic Control of Contractile Activity" by Arnold Schwartz of Houston, Tx.

The May 20 session, "Regulation of Metabolism in Ischemia and Hypoxia," will be chaired by Dr. Opie and D. Sodi-Pallares of Mexico City. The latter will present a background to use of metabolic intervention in treatment of myocardial infarction. Dr. Opie will present, "Effects of Ischemia and Hypoxia on Metabolism of Glucose and Fatty Acids."

"Control of Energy Production in Ischemia" will be by Earl Shrago of Madison, Wis.; and "Mitochondrial Function in Ischemia" will be by Robert Jennings of Chicago.

Edouard Coraboeuf of Paris will present, "Control of Ion Movements in Normal and Ischemic Hearts," while Burton Sobel of St. Louis will present "Cellular Metabolism in Interventions to Preserve Ischemic Myocardium." A general discussion will be led by Dr. James Willerson of Southwestern.

On May 21 the "Regulation of Protein Balance" will be explored with Dr. Morgan and Dr. Rubin Bressler of Tuscon as chairman.

"Regulation of Amino Acid and Protein Balance" will be by George Cahill of Boston, Mass.

"Hormonal Control of Protein Synthesis" will be by Ira Wool of Chicago.

"Control of Contractile Protein Synthesis" will be by Joanne Intersal of La Jolla, Calif.

"Regulation of Protein Balance in Cardiac Hypertrophy" will be by Murray Rabinowitz of Chicago.

"Regulation of Protein Degredation," will be by Robert Schimke of Palo Alto; "Role of Lysomes in Control of Protein Balance," will be by John Dingle of Cambridge.

"Hormonal Control of Protein Turnover" will be presented by Dr. Wildenthal and "Effects of Ischemia and Anoxia on Protein Turnover" by Eugene Rannels of Hershey, Pa.

The local coordinating committee consists of J. Denis McGarry, associate professor of Biochemistry and medicine; Jere H. Mitchell, professor of medicine and physiology, Dr. Srere, and Dr. Wildenthal.

Keynote speaker will be Dr. Richard J. Bing of the University of California at Los Angeles. Dr. Bing, a professor of medicine, was recipient of the American Heart Association's research achievement award presented this year in its Dallas meeting. Dr. Bing will speak on "The Impact of Basic Metabolic Research on Treatment of Patients."