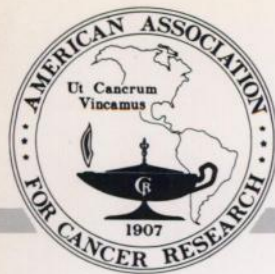


February 1, 1991

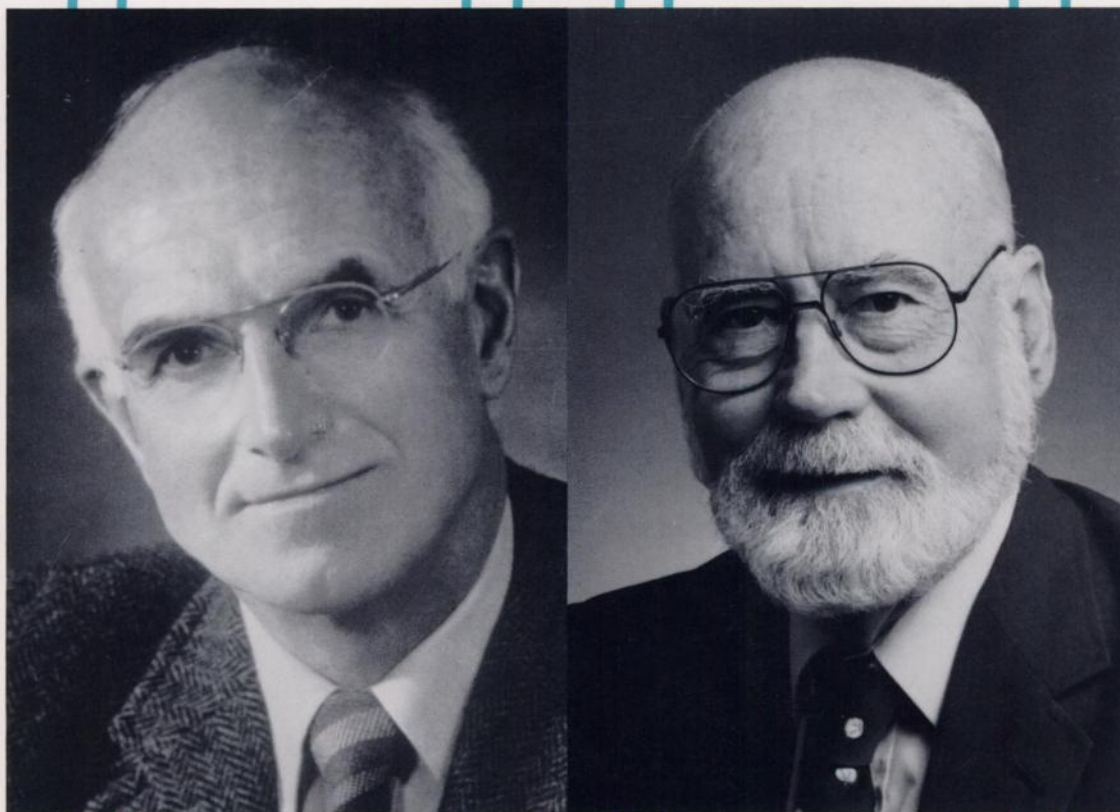


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Clinical Research in Oncology
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AACR SPECIAL CONFERENCE IN CANCER RESEARCH

Membrane Transport in Multidrug Resistance, Development, and Disease

(co-sponsored by the National Cancer Institute of Canada)

March 10-14, 1991
Banff Centre, Banff, Alberta, Canada

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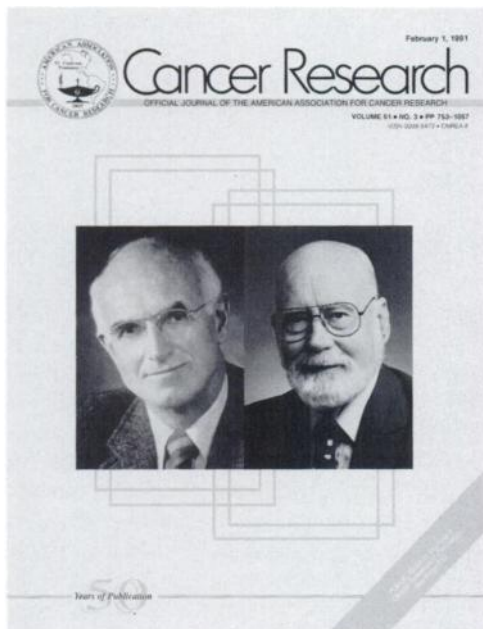
Permease Systems in Bacteria and Eukaryotes

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Application Deadline:
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Late applications will be accepted on a space-available basis.

COVER LEGEND



With the selection of E. Donnall Thomas as the corecipient of the Nobel Prize in Biology and Medicine for 1990, cancer research continues to maintain its position in the forefront of medical advances. Winners in 1988 were George Hitchings and Gertrude Elion, for innovative therapies, and winners in 1989 were J. Michael Bishop and Harold Varmus, for identification of oncogenes.

Dr. Thomas is Director Emeritus of the Fred Hutchinson Cancer Center in Seattle and Professor of Medicine at the University of Washington School of Medicine. He was given the award for pioneering bone marrow transplantation as the best treatment and the only hope of survival for some patients with leukemias and other blood-related and genetic disorders. His corecipient is Joseph E. Murray, Professor of Surgery, Harvard Medical School, former Chief of Plastic Surgery at Brigham and Women's Hospital, and Chil-

dren's Hospital Medical Center, Boston. His work, which paralleled that of Thomas, with whom he collaborated in the early 1950s, blazed the way for kidney transplantation. Both projects were viewed with great skepticism at that time, but their mutual problem of graft resistance was largely solved by the use of immunosuppressive drugs, now used routinely throughout the world.

Thomas, 70, received the M.D. at Harvard in 1946 and showed in 1955, while at MIT, that marrow could be infused in human patients. While at the Mary Imogene Bassett Hospital in Cooperstown, New York, he was the first to treat human leukemia with marrow transplantation. In 1963, he organized and became the first head of the Washington University Division of Oncology. Among his many awards are membership in the National Academy of Sciences, the American Cancer Society's Medal of Honor, the Kettering Prize of the General Motors Foundation, and the Robert Roesler de Villiers Award of the Leukemia Society of America. He was the president of the Leukemia Society of America, 1987-1988, is a member of the American Association for Cancer Research and is on many national committees and editorial boards.

Murray, 71, received the M.D. from Harvard in 1943 and spent the war years at the Valley Forge General Hospital. He did the first renal transplant in 1954 and in the next nine years steadily improved the surgery with the aid of azothioprine as immunosuppressant.

He has served widely on NIH panels, is a member of many professional societies, and numbers among his awards the Francis Amory Prize of the American Academy of Arts and Sciences, the Gold Medal of the International Society of Surgeons, the National Kidney Foundation Gift of Life Award, and Clinician of the Year, American Association of Plastic Surgeons. *Left*, Joseph E. Murray; *right*, E. Donnall Thomas.

Sidney Weinhouse