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• The AACR will reimburse the Awardee for travel to the Annual Meeting in San Francisco, California, in April 1994, where Dr. Elion will personally present this Award.

Eligibility

Candidates must have completed postdoctoral studies or clinical fellowships not later than July 1, 1994, and ordinarily not more than five years earlier. Tenured faculty in academia, government employees, and employees of private industry are not eligible for this award. A Candidate need not be a member of the AACR at the time of application, but must be nominated by a Member of the AACR. Associate Members may not be nominators.

Selection Process

Applications will be evaluated by a Committee consisting of AACR Members who are experts in basic, clinical, and translational cancer research. Complete applications must be submitted by February 15, 1994.

For Further Information/Application Forms

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The Walt Disney-American Cancer Society Research Professor will be chosen by a peer review process emphasizing past contributions and future potential, but most importantly, innovation in the field and the ability to attract young scientists into this critical area. The successful candidate will be awarded the Walt Disney-American Cancer Society Research Professorship for a period of 5 years, renewable every 5 years until the time of retirement from the institution, provided that the individual's research continues to excel. The terms of the appointment are for partial salary support at $50,000 per year plus an additional $10,000 in discretionary funds, the latter to be used for innovative pilot studies or opportunities. The Walt Disney-American Cancer Society Research Professor will be expected to be a spokesperson for the American Cancer Society and for breast cancer research. Nominations must be received in our National Office no later than February 15, 1994 for a starting date of July 1, 1994.

For further information and nomination forms, contact:

John Laszlo, MD
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Next Annual Meeting: March 19-22, 1995, Toronto, Ontario, Canada
Gerald C. Mueller, in a career of over 40 years, has been an early pioneer and distinguished influence in research on the growth and differentiation mechanisms in normal and cancer cells. These studies anticipated and opened up fields of current major research interest, in which he and many others are actively engaged throughout the world. His early work first demonstrated that estrogens, as representative steroid-hormones, produced their major biological effects through the activation of gene expression, operating via specific receptors [Astwood, E. B. (ed.), Recent Progress in Hormone Research, Vol. 28, pp. 1-49. New York: Academic Press, 1972]. Where tritium-labeled estrogens became available, this mechanism was confirmed and amplified by Jensen [Pincus, G. and Volmer, E. P. (eds.), Biological Activities of Steroids in Relation to Cancer, pp. 161–178. New York: Academic Press, 1960]. In recent years, Mueller developed a cross-linking technology that revealed that the estrogen receptor functions by guiding the assembly of transcription-related proteins around regulatory sites of estrogen-responsive genes (Anal. Biochem., 163: 537–545, 1987; Receptor, 3: 1–17, 1993).

Ensuing from his early studies on the synchronization of the cell cycle in cultured mammalian cells, he studied DNA replication in the chromatin setting of isolated nuclei. An essential role of soluble proteins in DNA chain growth was demonstrated, thereby providing a basis for understanding both the perpetuation and non-mutational revision of cell phenotype [Baserga, R. (ed.), The Cell Cycle and Cancer, pp. 269–307. New York: Marcel Dekker, Inc., 1971]. In studies of induced cell differentiation, evidence was unveiled for opposing processes, both mediated by phorbol esters and other ligands of protein kinase C, that determine the balance between cell replication and terminal differentiation and apparently account for the growth of colon and mammary tumor cells (Cell Growth & Differ., 1: 281–291, 1990).

His studies of the impact of phorbol esters on lipid metabolism have uncovered recently a new factor that regulates the synthesis of phosphatidylycholine (Proc. Natl. Acad. Sci. USA, 85: 9778–9782, 1988) and also revealed the activated synthesis of phosphatidylethanol, a metabolite of ethanol that appears to figure in the broad problem of alcoholism.

During his career, he has trained over sixty pre- and postdoctoral candidates who are currently active in various research areas and has published more than 250 research papers and reviews. He has also served for three years as Assistant Vice President of the University of Wisconsin, Madison, WI, as Chairman of the Gordon Conference Board of Trustees, on the Board of Scientific Counselors of the National Institute of Environmental Health Sciences, and on numerous committees of the NCI. He has been particularly active in the American Cancer Society, serving as a member of its Scientific Advisory Board, as well as on several research advisory committees. He served two terms on the AACR Board of Directors and was President in 1982–83.

Dr. Mueller was born May 22, 1920 in Centuria, WI, and received the B. S. from the University of Wisconsin in 1943 and the M. D. in 1946. In 1950, he was awarded the Ph.D. in biochemistry and oncology. He entered the University of Wisconsin faculty as Assistant Professor in 1950 and rose to Professor in 1958. He serves on a multitude of outside scholarly committees and scientific panels of many government and private agencies, holds several professorships, and has received awards from Schering, the Samuel Roberts Noble Foundation, and a Research Career Award from the United States Public Health Service. Some of his outdoor hobbies include bow and arrow hunting, canoeing, hiking, and tennis. In addition, Dr. Mueller enjoys watch-repairing and farming.

Sidney Weinhouse