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COVER LEGEND
In 1934 the Chicago industrialist, Michael W. McArdle, bequeathed a sum of money to the University of Wisconsin for cancer research. This bequest, together with matching funds from the Public Works Administration, was used to construct a building for this purpose in 1940 at the Medical School on the Madison campus—the McArdle Laboratory for Cancer Research.

Harold P. Rusch (b. 1908) was the first director and continues as the director and also as chairman of the Medical School's Department of Oncology. Dr. Rusch was editor of CANCER RESEARCH during the years 1950–1964 and was President of the American Association for Cancer Research 1953–1954.

In 1961 the National Institutes of Health awarded a grant to the University of Wisconsin for the construction of an 11-story building, the new McArdle Laboratory for Cancer Research. The move from the old to the new laboratory was made in 1964.

The present McArdle Laboratory accommodates a staff of thirteen senior investigators, as well as numerous graduate students, postdoctoral fellows, and supporting personnel. The research is concerned with fundamental aspects of the cancer problem, such as the mechanisms involved in carcinogenesis by chemicals and by viruses; the biochemical processes and control mechanisms associated with growth and differentiation; and studies on antitumor agents. In 1957 the potent antimetabolite, 5-fluorouracil (5-FU), was developed by Charles Heidelberger of the McArdle Laboratory.

The cover presents two views of the McArdle Laboratory: the original building (c. 1945, lower right) and the present structure (center). The portrait is of Dr. Rusch, to whom we are indebted for the illustrations.