

MAJOR THOMAS J. ROSS, Marine pilot, was flying a mission over North Korea when this Pantherjet fighter was hit by enemy anti-aircraft fire. With his plane's landing gear damaged, Maj. Ross brought the jet safely in to a belly landing as these pictures show. In the top picture the Pantherjet is just touching the Third Infantry Division air strip; in the bottom picture the plane skids along, trailing a cloud of dust behind it. —NEA Telephoto.

University's Drs. Irvin And Metz Are Selected Recipients For American Cancer Study Grants

The American Cancer Society today told of the award of seven ACS grants in aid valued at \$39,650 at four institutions in this state: Duke University, UNC Bowman Gray School of Medicine of Wake Forest College, and the Woman's College of the University.

Mrs. George E. Marshall, executive vice president of the North Carolina Division, said these are among 253 grants in aid totaling \$1,765,210, given by the American Cancer Society from funds raised during the 1952 cancer crusade. At least 25 percent of all money given to the Society is devoted to research. The awards become effective June 30.

Three Duke University researchers received grants. The recipients and amount of grants were: Dr. Joseph W. Beard, \$12,500; Dr. F. L. Engel, \$6,000; and Dr. Aubrey W. Naylor, \$4,498.

University of North Carolina recipients were: Dr. J. Logan Irvin, \$6,000; Dr. Charles B. Metz, \$3,838.

A grant of \$3,563 went to Dr. Victor M. Cutter, Jr., of Womans College of the University, and a grant of \$3,200 was awarded Dr. Marjorie A. Swanson, Bowman Gray School of Medicine of Wake Forest College.

Dr. Beard's research will be in "the action of a virus as a cancer factor which has been recognized since the discovery of the 'milk factor' in mice. In fowl, a virus is known to cause disease which appears in several forms: It may affect the blood forming organs giving rise to leukemia, or it may affect the liver, nervous tissue and

lymphoid cells or it may produce tumors or even bone changes. Because of its several diverse manifestations, it deserves special attention, particularly because all forms appear to be caused by the action of the one virus."

Dr. Engel's project is based on the assumption that "the role of the hormones from the adrenal cortex can be understood only after much fundamental information as their relation to nitrogen metabolism, and enzymes of the body serum is discovered. These investigations using cortical hormones (and related Compound E) will be focused on changes in the skin since this tissue appears to reflect changes rapidly."

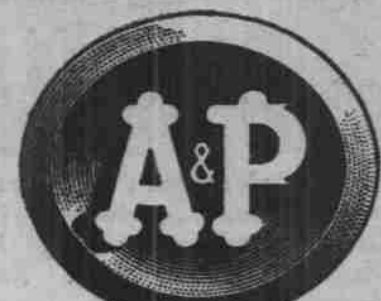
"The compound, maleic hydrazide, has been found to prevent growth of 14 different species of higher plants. Dr. Naylor will attempt to determine what processes are involved in the action of this chemical. Its effect on plant enzymes will be tested and the compound's action with known growth promoting substances will be studied."

Dr. Irvin's project will be devoted to "an investigation of nucleoproteins and nucleic acids, compounds which are found in the nucleus of cells and are vital to the growth process. Isolation of these substances will be accomplished by usual laboratory methods but some new advanced steps developed by Dr. Irvin and previously successful on other compounds will be adapted to nucleoproteins and nucleic acids in both normal and cancer cells. Variations

in quantity for quality between the normal and cancerous cells will be sought. Any such difference could be used as new clues to methods for checking cancerous growth."

Dr. Metz will make "studies of the cell dividing mechanism in a one-celled organism, the Paramecium, and fertilization processes in a marine invertebrate, the sea urchin, to obtain more basic knowledge of the beginnings of growth. Dr. Metz already has discovered the presence of a mating substance in paramecium which will initiate reproduction although one of the mating types are dead animals. An attempt will be made to isolate this substance."

Dr. Cutter's project is based on the assumption that by "separating nuclei and cytoplasm, then watching its development under selected conditions, new information about the forces which govern cellular organization may be disclosed, thereby giving a clue to possible methods of controlling cell growth of malignant tissue."



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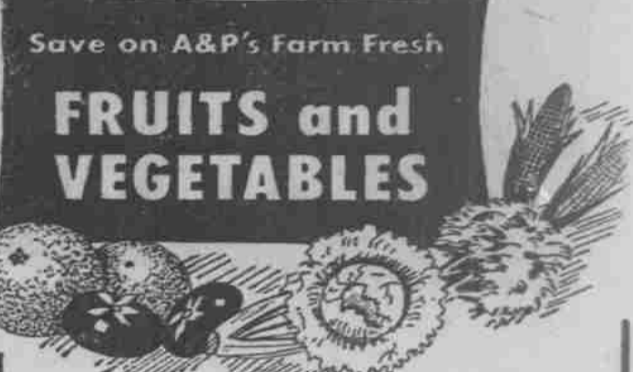
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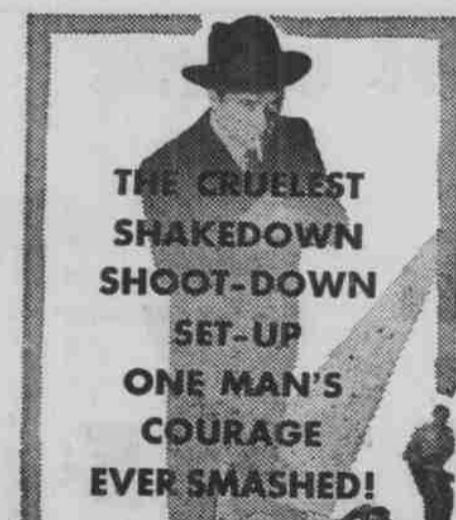
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