White Blood Cell Clue May Aid In Transplants

A California doctor may have discovered how the body recognizes bacterial invaders. In a recent interview, Dr. Riojus Kinosita, director desperimental pathology at the City of Rope Medical Center, Duarrie Calif., said he found the City of Rope Medical Center, Duarrie Calif., said he found the City of Rope Medical Center, Duarrie Calif., said he found the City of High Season of the City of High Se

wader," Kinosita says.

"WE NOW think it may be possible to precondition macrophages to help us in at least two ways. First, we might train them to recognize at least some types of cancer as foreign material, so that lymphocytes would make antibodies to destroy cancer cells. Second, we might also train macrophages not to react to transplanted organs such as hearts and kidneys, in other words, to inhibit the production of antibodies naturally, without the use of radiation or drugs."

duction of antibodies naturally, without the use of radiation or drugs."

Kloostia, credited with being among the first to show that some industrial materials cause cancer in animals, reported his macrophage work in technical papers recently. "Science has wondered for a long time just how our bodies can produce disease-flighting antibodies against such a wide range of foreign materials, or antigens," he said.

"Various researchers have shown that antibodies, which neutralize invading germs, are produced by lymphocytes, but we did dot know how lymphocytes were instructed to turn ut specific antigens. "In tests with human blood cell cultures, using sheep recognized by macrophages, which trapped how macrophages, which trapped hom and aparently analysed their chemical composition."

"Using this information, the nucleus of the macrophage printed off copies of RNA (a

Hettinger **Appointed** To Top Post

LANSING — William Hettiger, 42, of Detroit, has been
appointed Chief Assistant Serretary of State by Secretary
of State James Milare.

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Ostate James Milare.

Ostate James Milare.

James Wo resigned to become
a Democratic candidate for the
Michigan House of Representa

tives from the 58th district
of Lansing.

Hettiger has been president

since 1963 of Stratton Associates, a municipal consulting
firm based in Detroit, and has
extensive background in municipal financial affairs.

A former township supervisor in Grand Traverse Countyper of the State Municiparty of the State Municiparty of the State Municisecretary of State Municisecretary of State Municiparty of the State Municisecretary of State Dranch

Metropolitan Problems from
1997-60 and a member of the
Metropolitan Stadium Committee
on Voter Registration in Destruction's Committee
on Voter Registration in De

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molecule of ribonucleic acid), sume this macrophage-lympho-which were carried to a lym-phocyte. The lymphocyte, oil-lewing the RNA blueprint, could make antibodies specifically designed to neutralize the in-vading sheep red cells, We are

sume this macrophage-lympho-cyte system reacts in a simi-lar way to fight other aut-gens such as bacteria."

RNA IS part of the living
RNA is par

a slightly different function, it directs production by lympho-cytes of antibodies against those antigens which the macrophage has analyzed,

a slightly different Anotion. It does elements in cancer cells directly production by lymphocytes of satisfolder signals those analyzence material which the materials is studied by a similar to the material to the materials the materials which the materials which the materials may be plotted to find some sensities of suppressing drugs destroy lymphocytes, halting production of many indicases and many kinds of anothers, the sensities of suppressing drugs destroy lymphocytes, halting production of many indicases of anothers, the sensities of suppressing drugs destroy lymphocytes, halting production of many indicases of anothers, the sensities of suppressing drugs destroy lymphocytes, halting production of many indicases which recommends the material which the materials which th



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