Golden test

WSU technique can spot viral infections

A Wayne State University biologist has developed a new method of testing for viral infections. He said it eliminates the false-nosition testing for viral injections. He said it eliminates the false-positive and false-negative results that plague currently used tests.

"This technique can detect ex-tremely low levels of antibodies in human serum," said Dr. V. Hari, pro-fessor of biological sciences at

wayne State.

Harl, of Bloomfield Hills, and graduate students David Baunoch and Pritam Das developed the viral testing method and have filed for a patent.

THE TECHNIQUE involves plac-

ing gold molecules on antibodies to detect the virus. Antibodies are produced by the body to attack foreign substances. If the gold-tipped authodies attach to a cell, the cell vividly shines when viewed through an electron micro-scope.

scope. Current virus-detecting tests use Current virus-detecting tests use color-development reagents which react with viral antibodies as indicators of a virus presence.

But color is subjective, Hari said, so the test results can be locorrect.

In Hari's testing technique, the results are definitive — either the gold is present or it is not.

"Especially with the HIV (AIDS) virus, it's important that you're ac-

curate. With HIV, even a 1 percent error is a significant error, because you're basically condemning a human being."

HARI AND HIS students have tested the technique on two plant viruses, the human herpes virus and one produced in human food poisoning. In all cases, the technique worked beautifully. Through the electron microscope, the gold-tipped antibodies delected the presence of the virus. "They just lit up." Hari said. "It looks like a very promising system. There's no reason its houldn't work with any virus, including the AIDS virus," he said.

metallurgical engineering depart-ment.

Gold-attached antibodies are nothing new. They have been used in virus location, Hari said, but not in viral infection diagnosis.

HARI SAID he would like to make the technique more accessible to the medical profession. Although major hospitals have electron microscopes, "We want to carry this from the electron microscope to the light mi-croscope."

"What we need is money from private or public sources to fund the development of this technique." Hart said. "We would also like to investigate the possibility of transferring this technology to private industry."

paying their fair share for water treatment.

treatment.

Salley, a Detroit resident, said that the staff training will be completed by the end of December and the program fully operational "in the next couple of months."

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New device tracks industrial polluters

Two Wayne State University edu-cators have developed a computer program to help trace industrial pol-tultion violators in the metropolitan Detroit water and sewer system.

The system is "far more compre-hensive" than those being used in

Diabetes, baby classes next month

es for expectant parents and diabetics will be offered free next month by the Oakland County health division's south office at 27725 Greenfield Road, Southfield. -- Exectant parent classes run 7-9 , p.m. on six Tuesdays beginning Jan. 10. Public health nurses teach nutri-

six Thursdays beginning Jan. 19. A public health nurse and a dictitian cover the nature of the disease, dictary magement, medications and coping with every day problems.

ment.

EMPLOYEES at the Detroit Water and Sewerage Department are being trained to operate the computer program.

The system will cover 700 industries that send waste into the city's treatment plant. It will keep track of each company's volume and alert operators to ordinance infractions. In addition to enforcement of ordinances and tracing violators, Kummiter said the system also would assure the customers that they are THE PROJECT was initiated with seed money from WSU's Institute of Chemical Toxicology.

The cost was underwritten by the U.S. Environmental Protection Agency, the Detroit Water and Sever Department and the Michigan Department of Natural Resources.

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