

New Microscope May Give Scientists View Of Inside of Cells

San Francisco — Scientists may soon be peering into the inside of living cells, thanks to an X-ray microscope which can magnify an object 10,000 times.

This possibility was raised Wednesday by Dr. Albert V. Baez, of the University of Redlands, now a visiting professor at Stanford. He spoke to the California Division of the American Cancer Society.

The new microscope lies between the best visible light microscopes, which magnify up to 2,000 times, and electron microscopes, which can magnify 20,000 times.

May Penetrate Hard Shells
But neither visible light nor electron beams can penetrate hard shells and bony structures, nor can they reveal the inner structure of metals. This is where the X-ray microscope may come in handy, Baez said.

With a collaborating group of researchers in England, Stanford scientists have X-rayed the innards of earthworms, fruit flies, aphids, grasshoppers, blood cells, frogs' kidneys, and plant leaves.

Baez and his colleagues have perfected a method of hooking up a camera to the apparatus so that movement within a cell can be followed.

The interest of the American Cancer Society stems from the fact that cancer is a wild and uncontrolled expansion of what were once normal cells. The X-ray microscope may someday let scientists see the actual means by which a normal cell becomes malignant.

Can't Predict Discoveries
"After less than 10 years of work we cannot yet predict the eventual discoveries which can be made with X-ray microscopy," Baez said. "But the prospects are exciting."

X-ray microscopy, he said began only about nine years ago, with the pioneering developments of Dr. Paul Kirpatrick and his associates at Stanford, and Drs. V. E. Cosslett and W. C. Nixon of the Cavendish Laboratory at Cambridge University.



SUFFERING FROM BENDS, Norman Ream (right) is helped into speedboat at Catalina Island, Cal., after setting unofficial world's record of 370 feet skin diving. Glenn McCall is safety man assisting him. (International)

Three of French Quintuplets Die; Two in Incubator

Toulon, France — Three of the Christophe quintuplets died Wednesday night and early today leaving only a tiny boy and girl struggling for life in incubators at the Foch hospital.

Two doctors and several nurses maintained a 24-hour vigil over the remaining two in hopes of preserving the fragile lives for their parents who had been childless for eight years.

The hospital reported the mother, Mrs. Camille Christophe, 28, was doing fine.

Mrs. Christophe gave birth to the quint—three girls and two boys—at St. Michael clinic on Wednesday. The babies, weighing about two pounds each, were rushed to Foch hospital and placed in incubators.

Mrs. Christophe, a small woman who once was told she was sterile, had expected twins. The babies were three months premature.

Doctors refused to predict the chances for survival of the remaining two babies.

Mrs. Christophe and her husband, Laurence, 33, had been childless for the eight years of their marriage. Both have been

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working in the Social Security administration at Toulon, Mediterranean home of the French Navy. She quit three months ago.

Part of Christophe's job is paying benefits to persons who have children. If all their children had survived, the Christophes, who made about \$200 a month together, would have gotten another \$85 a month from the government.

The only survivors of quintuplets in the world are the Diligents in Argentina — three girls and two boys, and the four Dionne sisters in Canada.

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