OU biologist studies sperm cell's activity

Novocaine, a common pain killer in the dentist's office, has gone to the blology lab to help study sperm cell activity.

"The basic research could have important long-term implications in solving problems ranging from reproduction or contraception to emphysema," said Charles Lindemann, an Oakhand University cell biologist. Novocaine (procaine) has been found to "mimic" the action that takes place within the female tract, said Lindemann. The pain killer sets off a tumbling or hyperactive motion of the sperm — important in fertilization.

LINDEMANN HAS received a three-year grant of \$145,000 from the Natiolnal Science Foundation (NSF) to continue his research on sperm cell mobility.

sperm cell mobility.

He was the first to demonstrate that a cellular protein and another cell compound, cyclic adenosine monophosphate, are keys to the control of sperm cell activity.

Lindemann announced that finding in 1985 in the Journal Cell Mottlity.

"Actively swimming sperm are essential for fertilization", Lindemann said. It is now known that, in addition to the swimming motion, the sperm cells undergo a change: They fold

their whiplike talls and begin a tum-biling or hyperactivated state prior to fertilization. Researchers know it happens, they know it is important — but they don't understand why. Lindermann

don't understand why, Lindemann saild.

THE NSF grant will support:
1) Lindemann's continuing study of how to control the swimming setivity of the sperm.
2) Attempts to use blochemistry to dissect the cell in an effort to understand what changes take place to set off the tumbling action.
"I am studying basic cellular functions, and it may make it more interesting because I am using sperm cells," he said. "But the poln is that when you learn something about how these cells function, you learn something about there cells as well."
"When those cells don't function properly in the reproductive tract, you have fertility problems. And when they don't function properly in the respiratory tract, you can find humans suffering from chronic bronchial problems like emplysema.

NOVOCAINE (grocatine) was dis-

NOVOCAINE (procaline) was dis-covered in the 1960s to create a tum-biling or hyperactive motion in sperm. But at the time it was consid-ered an odd phenomenon.



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State aid to OCC hiked 6.6%

Oakland Community College would get a 6.6 per-cent boost in state aid under Gov. James J. Blanch-ard's proposed budget for (Iscal 1987. "It's good. It's the highest you could get," said Anthony Jaron, business vice president of the 24,000-student college. Blanchard saked for a 5.5 percent increase in state funding for all levels of education plus a sec-ond year of capital grants for the 29 two-year col-leges. The state's 1987 (Iscal year begins next Oct. 1.

FOR COMMUNITY colleges, Blanchard proposed a total of \$20.6 million compared to \$19.1 million for the current fiscal year. Increases for individual colleges range from 4 to 6.6 percent.

OCC's share will be \$12.6 million, up 6.6 percent from the current year's \$11.8 million, The college's total budget for operating four campuses is \$41.6 million.

million.

But OCC still ranks at the bottom of the list in per capita state aid, Jarson said. While the boost looks good on paper, it's based in part on enrollment,

'It's good. It's the highest you could get.'

- Anthony Jarson business vice president

which has been growing at OCC.
"That 6.6 is misteading. It's formula-driven," he said. On a per-student basis, OCC will get \$871 in state funds, "still the lowest in the state," he said. Monroe Community College gets \$921 per student, and all the other colleges are above \$1,100. State average is \$1,343. Wayne County Community College, serving mainly Detroit, is slated for \$2,415.

12.415.

Community colleges operate on revenue from three sources: state aid, local property taxes and student tuillons.

"THE STATE is starting to grant capital outlay money to community colleges," Jarson went on. Blanchard is recommending \$1.25 million for maintenance and \$3 million for capital projects. Colleges must list their projects and apply for the

money. Specific projects aren't listed in the governor's budget.

"It's a far cry from what the universities get,"
said Jarson, "but it's a very important step for community colleges."
Until the 1978 as:-limitation amendment to the
state constitution was passed, community colleges
taken and the property of the property
have had to go to the voters, who go on the brakes
during the tax revoil and recession.

Last year, Blanchard came up with \$3 million for
community college capital, Jarson said.

OCC WILL be able to hold the line on tuition this
year, Jarson predicted.

OCC darges \$28 for in-district students after
from the state butwe're below average." Jarson said, pointing to Macomb \$32.50, Wayne's \$28 and Henry Ford's \$30.

He said OCC is destined for at least an \$80,000
share of a \$4 million for tertaining fund in the new
state budget, and perhaps more if it qualifies, "Last
year we got \$240,000, We can't complain," he said.





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