Update by Sean Hosein

Wayne Davies of Allelix Biochemicals, and Alan Bernstein (head of the division of molecular and developmental biology) at Mount Sinai hospital in Toronto have devised a plan based on the following data: HIV only attacks cells that carry the CD4 receptor molecule, such as the IT4 white blood cell. The cells of the immune system develop from stem cells in the bone marrow. These stem cells do not have the CD4 receptor so they remain uninfected by HIV. Experiments on mice have revealed that a single stem cell can—by making many copies of itself—reconstitute the entire immune system. The scientists plan to alter the DNA of a human stem cell so that it would not let HIV replicate inside of it. The person's blood would then be blasted with radiation to kill all the HIV infected blood cells and then the genetically altered cells would be reintroduced in to the his/her body where they twould form the new immune system's cells. These cells should be able to survive attacks by HIV and entire they thus prevent AIDS. The Canadian Medical Research Council has given a \$240,000 grant to researchers in Toronto who are to investigate a method that may restore the immune systems of people infected with HIV. Sadhna Joshi and Wayne Davies of Allelix Biochemi-

to bring about the collapse of the mune system is by damaging thus prevent AIDS.

One of the ways HIV is thought im-the

without zinc, thymulin remains inache tive. Blood samples taken from the people with AIDS (PWAs) revealed it that they had almost no active from the thymulin, and very low levels of zinc but a lot of the inactive form of it thymulin. Tests on persons with the ARC/PLS/PGL showed that their elevels of thymulin and zinc were midway between those of PWAs and healthy controls, according to a letter to the Journal of the American Medical chastion from researchers in the Milan, Italy. It has been known for several years that persons suffering from HIV infection have much lower levels of zinc in their blood stream than uninfected persons. As a result of experiments they have conducted, the Italian scientists conclude that zinc supplementation should be able to convert the thymulin into its active of system of persons with HIV infection.

One of the few things that her in the that he system of persons with HIV infection. neck that releases hormones which help the immune system function properly, one such hormone is called thymulin. A crucial part of the thymulin molecule is the metal zinc; Thymus gland, a small gland l in the which

e One of the few things that has e remained constant about the AIDS depidemic is that we keep learning new things about the syndrome. At lack of an animal model for Human Immunodeficiency Virus makes it difficult to study and understand all

answered are: why is it that some people infected with the virus die while others remain symptom free?

Why does the virus stay latent for so long? Why do antibodies against the virus fail to stop it from infecting humans? Is there a co-factor involved? As to this last question, it has recently been shown that Herpes Simplex Virus type 2 (HSV-2), and cytomegalovirus (CMV), either circulated the body more vulnerable to attack by HIV. Yet none of these viruses has been proven to be that elusive cofactor. An article in the journal Nature reporting on the transmission of HIV in heterosexuals, notes that none of the sexual partners of infected spouses in this study had a history of any prior sexually transmitted diseases. The author concluded that HSV-2/EBV/CMV could all be ruled out as co-factors in this case. The amount of sexual encounters and yet remained antibody negative.

While research is just getting unterway against AIDS, studies on a similar disease in cats has been going on since the 1970's. FAIDS (Feline AIDS) infection in mature cats results in an asymptomatic period of force. when HIV infects humans. questions that still remain answered are: why is it that happen ns. Some lain

in an asymptomatic period of one or more years followed by symptoms which worsen until the animal dies. These symptoms include "persistent infection, diarrhea, progressive weight loss, reduced levels of white blood cells and opportunistic infections," according to a recent article in the American journal *Science*. In

there is a type of virus from those cats which does not cause disease. And they have also found another related virus which causes FAIDS but can only do so with the help of the first virus. This FAIDS causing virus, called the variant, could not make infected blood cells grown in special solutions in the lab. In the case of FAIDS however, the virus is easy to find in the tissues of infected cats. The researchers have discovered that human AIDS, as well monkey AIDS, called SAIDS, the virus is difficult to find and in order to study the virus ed to

copies of itself (replicate) without the other virus, called the helper. Only when both viruses are being produced can they co-infect and cause the lethal combination that results in FAIDS. This co-infection may take years to happen and is also thought to occur in birds suffering from infection by immunodeficiency viruses. The scientists note that the variant virus was not isolated from blood cells grown in the lab, from cats sick with FAIDS. Recently, it has been reported that when blood cells taken from monkeys infected with SIV were grown in the lab, the virus they produced was a weaker version of the original virus. The scientists suggest that there may be a whole group of HIVs which remain undiscovered because of current techniques in virus propagation. They also said that these other viruses may only be isolated if fresh tissue samples are resorted to the control of the co used. It is possible that a reaction between 2 or more of these (as yet undiscovered) viruses is what may trigger the collapse of the immune system which results in AIDS. The idea that there may be viruses which cause AIDS apart from HIV-1 and

Senegal, of PWAs who have found to lack antibodies to HIV HIV-2, according to an article in Scientist. In Finland, researche the University of Helsinki have nounced in a letter to the England Journal of Medicine that results on large numbers of gay there suggest the presence of an type of HIV. HIV-2 has been given a boost with the discovery in the

s had been kept in storage and in they were tested for HIV-1 antib along with hundreds of it samples from the same area results indicated that 5 people to positive in 1976, 3 of whom died diseases associated with AIDS. If survivors appeared healthy though one had reduced number 174 cells. The samples from 1980 a similar number of positive rear This situation contrasts sharply the results from large urban where between 1970 and 1980 areas of infection among presents. Meanwhile researchers in Central African country of Zaire ediscovered that HIV-1 was preserural Zaire at an incidence of under 1% in 1976 and 12 years the rate has remained at the level. In an article in the New Enfournal of Medicine, the resear tell of an outbreak of Ebola which struck the remote tov Yambuku in 1976, and durin women increased by a factor of is not clear why HIV has not be more widespread in rural Zair what aspect(s) of rural life carry risk for HIV infection. subsequent investigation over blood samples were collected. T

Talking In the past two months the Supreme Court of Ontario has rendered two **Politics** by George Smith-

denied a lesbian couple OHIP family coverage, and in February, Justices Brooke, Blair and Morden denied two gay men protection from video surveillance, and declared homosexuality to be grossly inimportant judgments concerning the rights of lesbians and gay men. In March Mr. Justice Nicholson McRae

The decision regarding OHIP family coverage centered on the definition of "spouse." Judge McRae insisted that "spouse" can only be used for opposite-sex partners, and therefore only opposite-sex partners can claim spousal benefits from OHIP. He defended his legal opinion by pointing out that this is how "spouse" is defined in various other

Ontario statutes.

The definition of "spouse," of I course, is what the case was about. If the terosexuals continue to insist that "spouse" refers to an opposite-sex partner, then, of course, the partners of gay men and lesbians will continue to be denied the full benefits of the law. Mr. Justice McRae's decision, in this sense, simply begs the question. What he does not seem to see is that his definition of "spouse" is heterosexist. The Ontario Government, in passing Bill 7, guaranteed lesbians and gay men, among other

Rights and Freedoms. What it now has to do is to bring provincial statutes into accord with the Human Rights Code. The place to begin seems to be with the definition of "spouse," not merely in the regula-tions governing OHIP, but in all areas

The facts of the second case are slightly more complex. Two gay men, in separate circumstances, were arrested for having sex in a public washroom. The evidence in each case depended on video surveillance. Both men were found guilty, one by a judge and the other in a jury trial. With the assistance of the Right to Privacy Committee, they jointly appealed their convictions to the Supreme Court of Ontario. There were two grounds of appeal: first, the gross indecency provisions of the Criminal Code are unconstitutionally by vague; and secondly, that video first curveillance is an infringement of

objectively," for conduct to amount to gross indecency it must be "...at marked departure from decent conduct expected of the average Canadian...."

Applications of the decent conduct expected of the average canadian...." privacy rights.

The issue of gross indecency has been overtaken by parliament who recently repealed Section 157 of the Criminal Code. Nonetheless, the arguments of the Court were virulently homophobic. In arguing that the gross indecency provisions of the Code are not unconstitutionally vague, the Court noted that, viewed "objectively," for conduct to amount

sexual. And a circular. How again, the argument is w can the rights of sexual included in the notion?" The answer

Homophobia in High Places

of "average Canadian?" The answer is, they cannot.
In this instance, however, the Court perhaps sensed the problem of its own heterosexism. It went on to

gross indecency (ss.157 and 158, and their judicial interpretation and application) would deter people from engaging in private in any form of sexual activity which does not involve the infliction of harm." Further, it said that as a practical matter the issue of regulating sexual behaviour was merely one of "common sense and ordinary decency".

In its deliberations, confined as it is to a realm organized entirely in documents, the court failed to see that in the real world of public washrooms, the distinction between public and private is not all that clear. Convictions in both cases, in fact, did not hinge on common sense as the basis of decency, but on the Code's official definition of public and private. In both cases, the gay men involved took such good precautions to protect their privacy and public decorum that the police claimed that is video surveillance was the only way. video surveillance was the only way they could get the evidence they needed for a conviction.

In one case, for example, lookouts were posted at the door of the washroom to warn of anyone approaching the facility who might be offended.

things, equal access to government services. It did this, in part, in order to make its Human Rights Code conform to the Canadian Charter

order

s The court described this common
l sense practice in a somewhat the paranoid way as the gay men in
r volved intending "to take over the public washroom as their meeting place." It went on later to say that the susing the Charter to defend this kind of common sense behaviour would see "to make a haven from search of a public place used for criminal conduct." The conduct is "criminal" be
d duct." The conduct is "criminal" be-

cause it is "indecent" and "in public." h
And this is because of the way the g
Code defines "indecent" and tl
"public," quite apart from whatever to common sense precautions gay men for might take.

In the meantime, parliament has the repealed the gross indecency section p
of the Code because it probably could go the court in this case pointed out, the the court in this case pointed out, the the charge of gross indecency, added to the Charter. As the charge of gross indecency, added to the cover persons."—clearly a heterosexual behaviour, gross indecency has virtually always been the decency has virtually always been the decency has virtually always been to used to suppress homosexuality.

What, however, remains of this is judgment and what is clearly disturbing is, first, that it attempts to lull it people into thinking that common is sense is the touchstone of public to morality, which is clearly not the large Coordity that gray moral loss.

case. Secondly, that gay me bians should depend on the of the police and the cou

than on the law, to ensure their to sexual freedom. And lastly gay and lesbian citizens can have a "reasonable" expectation slightest consideration for min

a rights.

This judgment leaves intace-criminality (i.e., indecency." homosexuality and the right of government to enforce the law. It is than anything else, it is this appear to homosexuality that is response to homosexuality that is response for the police view of gays an bians as a criminal minority-as the consequences this has in term police surveillance and protection striking feature of the facts in judgment is the amount of the ligence" the police were able to together about the men who quented the washroom in Silver of Park for sex. It appears as if the mention centre of the striking feature on homose at least in gradler urban centre. at least in smaller urban centre can be quickly collated for the pose of criminal prosecution.

Given the criminal charac

that the men who were arreste no "reasonable expectatio privacy. One can only expect p in a public washroom cubicle is involved in the "expected" homosexuality, might be looking in-quite leg

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