

Human Genetics Society of Australasia

WEST AUSTRALIAN BRANCH

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"Legal Issues Arising From the New Genetics"

Justice Michael D Kirby

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ustice Michael Kirby:

am very grateful to the HGSA, WA Branch for bringing me to Perth. Last night I was in Sydney to Macquarie University giving an address on drug law reform. There was a great mass of people here who were stirring and anxious. I could not understand why they all wanted to leave discussion of such a fascinating topic. But of course it was the State of Origin match which was on last night! am glad that I don't have any such competition over here in Perth tonight.

When I was a little boy at the Summer Hill Opportunity School on the far side of this continent, I remember a day vividly in about 1950 when two grey coated departmental officials came to the class foom, handed us out little documents and in them we were asked, "what do you want to be when you grow up?" After deep thought at the age of 10 I write, "I wish to be either a Judge or a Bishop" (one way or the other I was determined to spend my working day in fancy dress). Well, you've had a Bishop, indeed an Archbishop in this Lecture Series. Tonight I'm here as a Judge and citizen, yet I want to start in the manner of a Bishop with a number of texts. Let me start first of all with the following extract from The Australian which is headed, "Gene Debate Highjacked by Hysteria". "Illusionary fears of Frankenstein's laboratory have highjacked the debate over the use of genetic technology, clouding the positive aspects of gene therapy in the cure of disease, leading scientists told a technology forum this week". The Director of the Walter and Eliza Hall Institute of Medical Research and President of the Australian Academy of Science, Professor Sir Gustav Nossal said, "interference in genetic make up of humans existed only in the imagination". "It's all fiction, it's not reality, not in any lab in the world" Professor Nossal said. "Let's keep this debate on what is possible now and will be possible in the next 30 years. Let's not allow the debate to get highjacked by people raising illusory fears, much of which can't happen". "I believe the gene therapy era is going to be something of huge benefit to humankind and something not to be portrayed to the lay public as holding any terrors. I think there's a lot of mistrust in some sections of the community but I think it's misplaced, scientists have a lot of constraints on them. It's quite a regulated industry", he said. Professor Sir Gustav Nossal is President of the Australian Academy of Science. He is a most distinguished Australian. He is a friend.

Along the same lines have been comments in <u>Nature</u> by John Maddocks in an article, "New Genetics Means No New Ethics". Dr Maddocks in <u>Nature</u> in July 1983 expressed the view that there was no need to be alarmed. That there were no substantial dangers. That "it is usual for Hitler to be thrown into this debate". Yet he says at the end of his statement, "Geneticists are fond of saying, "it will never touch the germline"! But that is unwise.

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n our own National Health and Medical Research Council Guidelines, which are part of the tatement on Human Experimentation, supplementary note number 7, Rule No. 2. It says all ittempts to introduce pieces of DNA or RNA into human cells should be considered to be experimental and subject to the statement by the NHMRC, "Human Experimentation and Supplementary Notes". It further states in one of the instructions that as to the technique of insertion in the germline experiments in animals is a pre requisite. It is necessary in humans to confine the insertion of DNA and RNA into intended somatic cells without entry into germ cells. This is supplementary note No. 7 titled: "Somatic cell gene therapy and other forms of experimental introduction DNA and RNA into human subjects".

When I was in New York for the presentation of my report as the Special representative of the Secretary General for Human Rights in Cambodia I was sitting at breakfast one morning on the 22 November 1994 and opened my New York Times to find on the front page a story about a report which had been presented the day before to the American Academy of Sciences by a Dr Ralph Brinster, a Researcher at the University of Pennsylvania. Dr Brinster has focused on a group of early stage sperm cells called stem cells which arise in the testes and are the source of sperm that males produce. Sperm cells can divide to form more stem cells. They can then divide to perform more differentiated cells which will continue along a developmental path and will lead to the production of sperm. Dr Brinster is experimenting on mice. Since the stem cells are the genetic source of all sperm cells, genes inserted into the stem cells will appear in all the sperm derived from them and those genes in turn will appear in every cell of the animal's offspring, altering its lineage. Dr Brinster and his colleagues found that they could gather stem cells from the testes of mice, that had marker genes in all their cells. They could then inject the sperm stem cells into the testes of other animals and see the marker genes effects upon the next generation. The commentator who worked with Dr Brinster said that this could have far reaching clinical consequences for testing infertility and genetic disorders. I don't think he was considering only mice.

I have four capacities in which I have some relevance to speak to you tonight. The first is as a Judge. I was sitting in Court today dealing with the memo and articles and association of a shopping centre and I will be going back tomorrow to deal with three appeals in Sydney. Our legal system is a very interesting one. When I go to a country like Cambodia I see the great difference between a country like ours that can boast a continuous legal tradition of 800 years and a country that can't. In our country, in our legal system, the common law, there is never a gap. If ever there is no law it's left to people like me to develop the law by analogyus from earlier cases. That's the doctrine of precedent: expanding and developing old cases to meet new circumstances. If in any of the problems that I mention tonight there is no law and Parliament doesn't make a law, then it's left to the Judges to develop the law by analogy to past principles of the common law. That is a way in which we have a fail-safe system in our sort of society against having gaps in the law and silences about important matters. So that is my first relevance to comment upon the issues of human genetic developments, human genetic research and the problems that it presents to our society and the law.

My second relevance arises out of my work for nearly ten years as Chairman of the Australian Law Reform Commission. That Commission had the task, on projects which were assigned to it by the Federal Attorney General, to develop the law in areas which were often at the frontier of law making. For example one of the first tasks which was given to the Law Reform Commission was to develop the law on tissue transplantation which was then becoming an important feature of medical science. The law on that subject had been pretty imperfect and often silent. Rather than leaving it to the chance that Judges would develop it and do it in a sensible and informed way, the Law Reform Commission was given the task to develop the principles. So it did. Those principles became the basis of the law on tissue transplants throughout our country.

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he way in which the Law Reform Commission achieved that success in a country that really cannot bast many laws which are uniform I'll mention in a moment. It has quite important lessons, I think, for the way in which we have to tackle in this country the problems that are presented to us by tuman genetic developments.

the third relevant capacity relates to the fact that, at the moment, I am the Chairman of the executive of the International Commission of Jurists (ICJ). The ICJ is based in Geneva. It's a worldwide body. It's commitment is to three things. Two of these are the protection of human lights and the rule of law. Both of those are very relevant to what I'm here to talk about tonight to far as the rule of law is concerned, you can't have the rule of law if on important matters which ouch essential features important to society, the law is silent. Although in theory the Judges can levelop the law, if the law is silent because the democratic legislature hasn't attended to the levelopment of the law then we don't really have the rule of law. We have the rule of silence. The international Commission of Jurists a year ago was looking into the next century and trying to decide what would be the important issues for human rights in the next century. One of the issues which it but on its agenda as one of the important questions for human rights in the century to come, was benetics, the Human Genome Project and its relevance to the human rights of people everywhere.

It is the fourth capacity which really brings me to speak to you tonight. It arises out of the fact that because of the three capacities that I earlier mentioned, I was invited exactly two years ago to attend a conference in Bilbao, Spain, on the subject of the Human Genome Project. I went there with the relative ignorance of the Human Genome Project that probably most lawyers have. In a sense, my eyes were opened to the tremendous importance of this project for humanity, for science, for medical research, for medical assistance, indeed for all of us. I was really rather alarmed at the lack of knowledge in my own profession, the law, and of the lack of debate in my own country about the implications of the Human Genome Project and the genetic research technology which it signals and which it facilitates.

At the conference there were four Nobel laureates, Carleton Gajdusek who is the Nobel laureate for 1976 in medicine, Jean Dausset, Nobel laureate in medicine, Sir Ervin Klug, Nobel laureate in chemistry. Dr Hamilton Smith, Nobel laureate in medicine. There were other people from different legal traditions. Of course there were a lot of Spanish jurists and scientists. But one of the most important people there was a member of the French Constitutional Council, Madam Noelle Lenoir who is now, the Chair of the UNESCO Committee which is looking at the legal and ethical implications of the Human Genome Project and of genetic research.

The occasion was the 40th anniversary of the famous letter by Watson and Crick to Nature in April 1953. It was in April 1953 that they wrote their letter in which they indicated that genetic messages, important for our genetic composition, were to be found in the DNA. They defined the ways in which the DNA could be unravelled. They indicated its importance in terms of the future of life sciences. The human genes which Watson and Crick disclosed number approximately 100,000. Since their discovery the Human Genome Project has been developed as probably the most remarkable international cooperative scientific endeavour, certainly in the life sciences and probably of this century. Its purpose is to map the human genome. Many analogies were drawn between the great Spanish cartographers who had mapped the then known world and the cartographers of today who, turning inward upon the human genome, are mapping the whole of the human genome by a cooperative endeavour across the continents involving scientists in all parts of the world.

in the development of pigs, chickens, super cows and the perfect lamb. However, in terms of the uman genome and human genomic research, the research has already led to the discovery and tentification of important markers for very serious human medical conditions. Huntingtons, huscular dystrophy, cystic fibrosis, sickle cell anaemia, "Fragile X" syndrome, various forms of helanoma, various forms of breast cancer, colon cancer, Alzheimers, Parkinsons. The search is on for that marker which identifies all such conditions. The issue which was examined at the conference in Bilbao was what implications this had for the legal system and for the principles of thics which underlie the development of any legal system. What implications did it have for the evelopment of the law. What should we, as lawyers, know about it? What should we do about it?

buring the course of the debates by participants from various parts of the world and different legal raditions, a number of issues were identified as critically important. Over arching them all was the sue of democracy itself. How in a society of parliamentary democracy, do we ensure that our epresentatives in parliament face up to the growing number of problems and issues for the law which are presented by the Human Genome Project and the human genomic research technology that oes on around it. Various ways in which this should be done were identified and discussed. Various degrees to which it should be done or not done were discussed. Whether the development should be left entirely to self regulations, as Sir Gustav Nossal had suggested, was hotly debated. Whether, at least in certain areas, the law should step in and set the standards was a matter for inxious concern.

A second issue which was over arching was the question of human rights. How do we identify the tuman for the purpose of human rights. How do we ensure that the human rights respect the undamental integrity of each human being and preserve and protect for each human being the right of knowledgable informed consent about medical procedures which affect him or her. The whole principle of human rights is founded on the integrity of the individual. In the last month or so we've seen seeing the shocking pictures of the opening up of the camps at Auchwitz and Dachau fifty years go. We can see how sometimes in human history, evil people and gangsters get control even of ivilised societies. They present a warning to us which we ignore at our peril.

Much of the time in the conference was addressed to issues which were specifically lawyers' issues, elevant to human genetics and new genetics. For example, the question of confidentiality. At the very time that privacy is becoming such an important issue in societies such as our own, along comes means of intruding into the very being of individuals and finding out aspects of the individual's genetic make up which will provide markers which will provide accurate predictors as to the future nedical history of the individual. Should the individual have an absolute right to prevent others having access to such information? What principle should govern the right of access to the information? Should a person for example, sometimes be under some legal obligation to provide it? Siven that we can now get this data to inform a future spouse or partner of the data, as being elevant to the future development of the person and their children. What risks of genetic discrimination exist? What if a person doesn't want to know the genetic markers? Should such information only be provided to the individual at that individual's knowing informed request? Or re there some circumstances where at the request of others, for example members of the family, such information should be able to be obtained? What are the principles of consent and authority of aw that should provide for access to such information? The importance of confidentiality was generally acknowledged. The importance of informed consent in undergoing genetic testing was also acknowledged. But the way in which these principles of a general character would be worked out in particular cases was accepted as presenting issues of great complexity and difficulty.

coinciderable length was the issue of culpability. Criminal law works very much on the principle of free will. That is to say that those who do social acts have a free will to determine whether they will do an antisocial act or not do so. Yet he face of genetic markers, for example a genetic marker which might identify some cause for ression in a particular person is the notion of free will still a viable motion on which to build our linal law? Can we really assume that people voluntarily, and with the evil intent that the criminal postulates, commit crimes against society? Or at least in some cases will the individual be simply victim of the genetic messages? I think nowadays we're noticing, especially with ADD, the ention Deficit Disorder, that there are some children who by reason of this condition are mitting antisocial conduct. Whether this is of a genetic origin or simply determined by their fromment, I am not competent to say. But certainly some people, by predisposition, appear much te likely than others to commit antisocial conduct and to end up in courts before people like self.

appose the hottest debate at the Bilbao conference and in much of the literature relates to patents. in patents that can be found the economic incentive for much of the research which is taking In the United States there are 35,000 applications for patents pending at the moment in pect of genetic research. In Europe 13,000 are at the European Patent Office in Munich. The elopment of the law of intellectual property has not kept pace with the development of genetic earch. It's an interesting thing to reflect upon the fact that Watson, when he wrote his famous ter, took no steps, back in 1953, to seek any form of patent or any other protection for his covery He simply provided it as part of the common scientific information of humanity. At the nference in Bilbao there was a great deal of criticism, especially for developing countries, at the ssure that was in place in the United States of America, in particular, to secure patents. These re criticised as being an endeavour to introduce a form of neo-colonialism of a new variety hereby American corporations would have effective control over the development and access to ach of the product from research upon genes which, it was said, were the common property of all manity. Far from promoting access to such benefits it was likely, so many of the contributors from untries such as Argentina and the like felt, that these countries would not have ready access, nor buld their scientists be able to pursue the research. If genetic discoveries were patented, they buld be closed off from that form of research.

surance was also a matter which was extremely hotly contested because the conference came at a the when a report had just been produced in the United States of America on the relevant rules that ould govern the insurance industry of that country. Whether there should be any limits upon cess by insurers to genetic data was disputed. Some people said, "Of course there should be cess to such information. We permit insurers to get raw data at the moment about whether a rson smokes or doesn't smoke". Those of the contrary view pointed out that the whole object of surance, was to spread the risk of health conditions and life threatening conditions, so that amongst e policy holders the policy holders were paying into a pool which would be provided to spread the sk in a way that was based on the best possible available information. There were many critics ho said that if the principle of access were pushed into the field of genetic markers, people could be proced without proper genetic counselling into securing information on their health and on their parkers which they didn't particularly want to know which would burden them with information that hey didn't particularly need to get and which would prevent their getting access to insurance, or duce their access or increase their premiums in a way which, in their former state of ignorance, ould not have occurred. Is this something that should be permitted? Or is it something that hould be restricted? What principles should govern access to such markers, information about parkers and an obligation of the policy holder to undergo such tests? All of this was the subject of very hot debate which was informed by the report of the United States committee.

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ere are many other issues that were discussed. They included the question of identification dence, DNA evidence and the like. But the general feeling at the end of the conference was one optimism. It was generally believed that we should look forward to the benefits of human genetic earch. That we should remember the importance of diversity. That we should not seek to bmote or even permit a monochrome uniformity. And that when issues of the future arose as to tether parents would be able to insist upon children of a particular height, or a particular skin lour, or eye colour, then that was something upon which the law could draw a line. The most ling moment came at the end of the conference when the four Nobel laureates made what for them is an impassioned plea. They said the one thing we must not do is to permit scientists to touch the rm cells because we don't know enough about this area of research now and we don't know ough to set into the future the unpredictable developments that would occur if we now permitted, the our present state of knowledge, the manipulation of human germ cells.

we can believe the statement of the President of the Australian Academy of Scientists, then that is problem which we don't have to worry about for 30 years. Yet if we can look at the research of Ralph Brinster at the University of Pennsylvania where already he is dealing with the early stage ferm cells of mice and sending into future generations of mice, developments of a genetic character id tracing them through the progeny of the mice over future generations, I think the question is sutely posed, "Is this something that can be translated into the human species? There being no ientific reason or technological reason why it cannot, what is stopping it?"

Vell, what is stopping it at the moment is self regulation instructions such as are produced in fustralia by the National Health and Medical Research Council. It may be that there are also ertain contractual obligations, in particular laboratories. It may be even that there are trust bligations. There may be employment duties. But society, at least in Australia, on this matter has ot spoken. It has certainly not spoken through its Parliament. Therefore, the question is I think resented to us, whether or not it is safe "for 30 years" simply to allow this matter to proceed in boratories around the world. Or whether there may not be many Ralph Brinsters who, looking at he development, are seeking to pursue their intellectual curiosity and not only their intellectual uriosity but their economic advantage or that of their institution? It's notable that Dr Brinster innounced that steps had been taken by his laboratory to seek a patent on the development which he as pursuing. It was explained to me during my attendance at the conference in Bilbao, why so many imerican scientists are breaking with the traditions of the past and had pursued patents. The answer really quite simple. About 10 years ago the Congress at the United States enacted a law that proses a duty on institutions that receive Federal funds in the United States to protect, by itellectual property protections, the novel developments, the inventions that they make. If they on't, they run the risk of losing the Federal funding that they receive. Therefore, there is acute ressure upon those institutions to pursue the protection of the intellectual property. nce that pressure was applied and it was soon seen that there were very large profits to be made out f the commercial exploitation of the biotechnological developments, the pressure which was at first hat of the Federal Act in the United States became a commercial pressure. It's the combination of hese two things that has led to the 35,000 applications for patents in biotechnological developments n the United States which are pending at this time.

On the 4th March 1995 a development occurred in the European Parliament which is important to sall to your notice. The European Parliament had before it a draft Directive from the Commission of the European Union, the organisation we used to call the European Economic Community. The Directive was the result of six years of work amongst the bureaucrats consulting the industry groups and consulting other bureaucrats. The matter went through the process of consultation which was aid down by the Maastricht Treaty. It went up to the European Parliament for formal ratification. But it was rejected by a vote of 240 to 186 with 23 abstentions.

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te rejection was unexpected. It was the first time the European Parliament with new powers to ject Directives from the Commission of the European Union exercised its powers.

he pressure against adoption of the Directive came largely from the environmental groups, cluding the Greens. But ultimately they were joined by a large section of the socialists in the propean Parliament. Contrary to all expectations the Directive was rejected. I think there's a sson for us in Australia and in other Western countries of this development. It indicates that you in have the consensus of industry, the agreement of the bureaucrats, the wise nodding approbation the lawyers, but ultimately, in a democratic society, you have to bring developments on the issue the law as it touches genetic research, to the representatives of ordinary members of the mmunity. That's as it should be. That is the rule of law. The Directive was concerned with a ovision which would have permitted the patenting of life forms. The environmentalists said that at was an insult to humanity. That this was an offence to the common property of humanity. That bu can patent a particular invention such as a particular drug, but you can't patent the actual arkers. You can't patent part of the genome itself. That you can patent your invention that will frect the genetic makeup of the human being. But you shouldn't be able to actually patent the farker or the genome because that belongs to nature. It belongs to humanity. It doesn't belong to by particular scientist or any particular research institute. Still less does it belong to any particular prporation. That the corporations have a right to be protected for their investment in the eventions. But they don't have a right to patent part of the genome itself.

he <u>Times</u> newspaper made the point that I've just made to you. Without proper thorough public beate you're not going to be able to get legislatures, which are responsive to the anxieties of the find that were mentioned in the European Parliament to agree to Directives of the kind that the jureaucrats and the experts in intellectual property law had developed. Not everybody took the bisolutist stance that the environmentalists did. Some just didn't like the particular measure that ad been developed. Others said that what was needed was some form of intellectual property rotection which was different in quality from the patent. They felt that a patent was too complete a protection for too long and that you needed something which would not prevent other researchers etting at the basic core of the human genome for the development of research, for the benefit of the umanity. But whatever the reason for the dispute, the Directive failed. It came as something of a jurprise to a lot of bureaucrats after six years of work on it.

What can be done about that problem that is presented in microcosm by the experience of the European unionunity, but which will, if we in Australia address issues of the kind that I've mentioned, present themselves to us as well? When I spoke at the conference in Bilbao I suggested hat the answer was to be found in procedures such as the Australian Law Reform Commission had dopted in its work on the highly controversial issues of human tissue transplants back in 1977. rocedures included were not unlike this meeting tonight: the use of consultation with experts, with he community, the use of the media. But there is more. The use of the discussion papers, the rafting of legislation, thorough debate, carrying the community and identifying the controversial reas. Should we have an opt in or an opt out system for tissue donation? Should you have to ctually volunteer that your organs will be available or should you be deemed to be a donor unless to have opted out of the system? Should there be a provision for somebody to give consent for hildren? Should there be access to cadaver body parts for use for the development of serum? should there be a system of paying or not paying for body parts? All of these issues were identified, debated, discussed. Within the Law Reform Commission there are often disagreements. But they were presented clearly. The political process was helped to resolve many of the issues. We got, at he end of the day, a uniform law which is still in force in this country.

nce the work of the Law Reform Commission something that has come upon the world whilst we ere dealing with issues such as corneas and kidneys and body parts. Since then we've had the evelopment of IVF and the transplantation of life itself. This raises issues that are, in many ways, nerically different from the issue of transplanting a cornea. The Canadians set up a Royal ommission in 1988 to look at the issues that were presented to the Canadian society by birth The result was a tremendous disagreement within the initial Commission. even initial Commissioners four came to the conclusion that the Commission was not approaching e matter in a proper way. They went first of all to the Privy Council Office in Canada. They sked what they could do to stop the other Commissioners from reporting. The Privy Council Office id that there was no way the government could interfere with the running of the Commission and it fould just have to be left to them. Subsequently, the government sacked four of the ommissioners. It appointed new Commissioners. The result was tremendous controversy in the anadian community and the production of a report which has been very severely criticised. So I on't underestimate the difficulty, especially in a matter as controversial as genomic research, of onsulting the community meaningfully and getting an informed opinion from the community as istinct from immediate reactions.

but not to take a step is to make a decision. Not to take a step is simply to leave it entirely to self egulation. This is to accept the fact that the Dr Ralph Brinsters of this world in their laboratories, vorking with their imagination and in the hope of the economic advantages that will come from the intellectual property protections that they can secure, will go ahead anyway. They will do what they hink is right. Now there may be some who will say, "Well, that's something we have to tolerate", and that, in effect, genetic research is in the mind of human beings. It is simply the next stage of the evelopment of science which is itself a product of the human species. In this sense the human species is itself not capable of stopping a dynamic process so important, so radical, so universal, so lobal. That may, in the end, be the conclusion that we reach. But if it is a conclusion let us reach trationally after a full appreciation of its implications, both for individuals and for our society and or our species. That really is what I came to say to you tonight. Before I complete I would like to give you a little poem which will be in my mind as I cross this continent again tonight. It is by the great Australian Aboriginal poet, Oogeroo, Kath Walker. It's relevant to our topic:

Let no-one say the past is dead the past is all about us and within haunted by tribal memories, I know this little now this accidental present is not the all of me whose long making is so much of the past.

No walls about me, the stars over me
the tall surrounding trees that stir the wind,
making their own music
Soft cries of the night coming to us there,
where we are one with all old nature's lives
known and unknown
A thousand thousand campfires in the forest are in my blood

Let no-one tell me the past is wholly gone now is so small a part of time so small a part of all the race years that have moulded me Each individual, each one of us is the product of all those race years that have moulded us

four Nobel laureates explained their opposition to interference with the germ line by saying that way in which humanity had survived the many assaults on it, of pestilence and plague, was ause of its variety. We just have to be very careful that we don't embark upon manipulation at st at the germ line without very great forethought. It would be prudent, said the four laureates, to touch the germ line. I think that's an important lesson which we should reflect upon. It is which I support.

Ian Walpole:

tice Kirby has agreed to take questions and we've left quite a bit of time for questions because we tred late. There is a roving microphone and because the proceedings are being taped we would a you to wait until the microphone comes and then state your name and if you're representing an anisation, if you could state the name of the organisation please. Any questions?

ona Stanley, Institute of Child Health Research

fank you very much for a very erudite talk. I have two questions. The first, I just wonder what fur opinion is of how we've done in other areas of medical endeavour? Are there parallels which can call upon? How do we rank in the past as to how we've managed to control ourselves and hat research has done. In your opinion. I'm sure others have theirs. The second question arose of myour interesting talk about the meeting in Bilbao and I wondered how much the differences tween countries in their legal systems and ethical and cultural differences played in your scussions. I'm interested in the current litigation and how much more litigious the American stem seems to be and how it drives decisions in medical science and in public health. I think there is some frightening and concerning issues there for us who are trying to get good debate I guess to timportant decisions in medicine and when you have the fear of the individual litigation ferriding the public good, then I think that there are messages there not just for genetic research it for much research. I'm just interested in those two areas.

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hank you very much for those two questions. First, analogies. I've given one analogy and that is human tissue transplants. I think there are some lessons to be learned in that rather less entroversial, much more self contained, smaller and identifiable problem area. Another area that I ink has a lot of lessons for the way in which we deal with the provision of information and the ovision of counselling is in connection with HIV. After all that involves the introduction of a rus into a human being. It presents some of the same problems as are presented by the new netics. For example should we test or not? If a person doesn't want to know their status, is it interheless important for them that they know their status? Is it important for them so that they can get the best possible treatment hich is available to mitigate, though not at the moment to cure the condition as it develops? Is it iportant that they have the test so that their family can be informed or so that steps can be taken for preparation of the development of the condition? What counselling do we give before the test is idertaken? What counselling do we give a person immediately after the test is taken?

were some absolutely heartless stories in the early days of the epidemic. I hope it doesn't e were some They involve people simply being told in a brutal way the results of their HIV test if re positive and having to bear that burden without assistance, advice, counselling, support, mation. There have been cases for example in Sydney, I hope this isn't repeated, where family friends coming to visit a particular prisoner have been told, "Oh, yes, he's over in the AIDS They learn in that way for the first time that the person is HIV positive. I think generally iking we in Australia have done well in coping with the AIDs epidemic. I suspect that's because had at a critical moment in our history in the early 1980s two people in Federal Parliament who I rd as princes among politicians, Neal Blewett and Peter Baume. It just happened that we had on opposite sides of the Parliament at a critical moment, two people who were willing to take a tion which was above party politics in support of our community and in support of the people were infected. That's the sort of analogies that I would draw. I would hope that we can find lar leaders who will, take an interest in this issue. I don't see many of them around at the ment. I hope that this Series, which is really a remarkable Series, which is so thoroughly pirable that needs to be replicated in all parts of our country dealing with the greatest issue of the han health sciences of this century, will promote a public debate. It should engage people from tion, like the Archbishop of Perth and jurists, medical scientists. It's a wonderful thing that this eing done here. It's what got me to come over here tonight.

u raised the question of the different cultures. That's a very important issue because I have to that the people who gathered in Bilbao were basically people of the Western tradition. There te a very small number from Japan. Overwhelmingly they were people, as one might expect m a conference in Spain, from the Spanish speaking countries of Latin America and from the ited States, Canada, Europe and Australia. It's very important that we do engage the other fimunities in the world. There can be little doubt that the countries of East Asia which have such Its in this sort of area, will very soon enter in a very big way, the issue of genomic research and innological development flowing from it. Then it will be more difficult to gain a consensus as to ral principles. At least we in the West begin from the position of a generally shared moral follection of principles of a common religion. In terms of other communities, whether they are iddhist or Confucian or Islamic or just people who don't have any religion at all, who are manists, it's not at all certain that it will be easy to secure a common approach to the sort of bblems that I have presented. For example, in many of the Asian communities I think they might Il wonder what all the fuss is about in terms of confidentiality and privacy. Notions of individual vacy are not as important in those traditions generally as they have been in ours. No doubt there some matters that are more important in their tradition than are in our tradition. Their concerns d perspectives will be different. But ultimately we all come together in a common human species th a common human genome which is completely undifferentiating and undiscriminating and which esents in the new genetic research a challenge to the whole of humanity. That's why bodies such UNESCO have set up committees to look at the legal and ethical and social implications. pfortunately HUGO, the Human Genome Organisation, despite lots of prodding from people like is really just basically scientific. They're not really interested in and they don't have the money r, and they don't have the expertise in the legal, ethical, moral questions. It will be a tragedy if the entists rush ahead because the net result of it, at least in societies like ours, is what's happened in prope. The scientists and the bureaucrats will be able to agree. Industry will smile. But it will t to the point of the people in their legislatures and it will be stopped. That, I think is the peril of hich I must warn in the light of the development in March in the European Parliament.

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e in Australia ought to do better. We ought to have the legitimacy that our voice can be lifted in debate by being an important country in the new genetic research. If we're simply raising our ice in the ethical and legal debate and not doing very much of the research, then people will say, tho are you to speak on this subject"? They won't then pay much attention to our voice. Let us we legitimacy in the research and in the application of the research. But let us share the problems d issues with our community so that we can develop principles which are laid down by the whole four society and hopefully reflect universal values. Whether our societies were Islamic, Confucian, iddhist, Christian or simply humanist there would be consensus, for example that there can be no bssing of a human and animal species. There would be probably consensus that certain velopments n the human species should not be permitted, but where do we draw the line. search in England in the last couple of years has shown that the number of parents who said they ould like to know if their child had a marker for alcoholism rose in the space of two years from 5% 12% and therefore if that is possible, what is next? A marker for fair hair? A marker for to obesity? Five percent of parents asked the question said, "yes, we would like to have lowledge of a marker for good looks". Whether there is such a marker or not, the fact that 5% of arents have said yes to that question is an indication of the sort of peril that lies ahead and the fficult mind drawing that will be presented to society of what is permitted and what is not ermitted and who will draw those lines. Is it to be left entirely to scientists? Or will there be stitutional arrangements in our society to help the scientists provide principled answers?

ack Goldblatt, Genetic Services of W.A.

there any legal forum in the country when these issues are being proactively debated or are test ases awaited?

ustice Kirby

there is a test case in the Federal Court at the moment which is the Australian reflection of litigation think it's by the Shiron Corporation in respect of the Hepatitis C vaccine which they are seeking to revent others from invading as they say, their patent. So there are test cases of that kind rincipally in the area of intellectual property law, protection of patents. That's where, if I can be excused for saying it, the big bucks are. As to whether there's a legal debate in the community I hink I have to say to you that there isn't. When I came back from Bilbao I felt it to be my moral bbligation to do something about it. So I wrote an essay which was published in the <u>Australian Law</u> ournal. It drew a lot of attention. In fact, a lot of people commented on how important and complex the matters were. But then they went on to the articles of association of shopping centres which are rather more easier to cope with and to solve. It is important that we raise the debate in the legal profession. I'll keep on going away and stumping the country to try and get not only the egal profession, but the community generally and the scientific community to engage in debates such as we're having here tonight. We need that going on all over the country. This is the greatest development in the health sciences, the human sciences this century. It has legal implications.

Brenda McGibbon, Student, Murdoch University

What I was wanting to know was whether you think that the law in Australia with respect to abortion is adequately equipped to deal with the increasing diagnostic and prognostic abilities in the medical field because it seems that the prohibition against abortion is in our criminal law but it's developing in case law at different rates in different jurisdictions. Do you think that's an adequate system to deal with it?

ice Kirby give that question an answer with two points. First, I'm an old stager who's been around for ears in public office. You would realise that that's a matter upon which there are very strong nunity differences about which as a Judge has to be a little cautious. Secondly, as it happens I reserved at the moment in my Court, an appeal from a Judge who held that a woman who was informed of facilities for abortion had no cause of action. Therefore, that is a matter on which I have to give a judgement and I think if I started talking about the subject now, people might say, ell, maybe one day he'll share his views with us in the judgement. But why did he go over to th to talk about the case?" If you would like to give me your name I'll send you a copy of the tement when it comes down which will be in a few weeks time. I've just got to be a little ious on some topics. You're absolutely right of course that the issue of abortion, termination of nancies is very much raised by this research. I think there would be a general consensus in the tralian community that in terms of gross brain damage of a fetus demonstrated by amniocentesis, that was an understandable instance of termination of pregnancy. There would of course be y very sincere people in our community who would say that, even then, the termination of enancy was a moral offence and not permitted. However, the overwhelming majority of the firalian community would, I think, accept such a case. Then you go down the line to the point of d looks. That's where people would say, "well, that is completely unacceptable". Where on line we draw the boundary is the controversy that's presented in the field of abortion by the new letics. Of course, the critics of abortion say, "well this is the slippery slope". Do we permit it the alcohol marker? No. Do we permit it for Huntingtons? Possibly. Do we permit it for ness or proneness to obesity? No. Do our institutions permit a change of view on the bortance of particular topics over time?

ere would be many who would say we should just hold the line and say, "No" absolutely. But it is a matter which is not yet fully thought out. The point I've come here to make tonight is that simply don't have the institutions, unless it be the Judges, to sort those problems out. I suggest you that it's better that they be sorted out by Parliaments, representative of our community, than the judiciary doing the best they can. The limited material that's presented in a typical case to solve such delicate and heartfelt controversies makes it better to solve these problems in an open sy, involving the whole interested community.

Ian Walpole

think you would like me to thank Justice Kirby for his very erudite presentation. I won't speak too ing in trying to summarise that but I would assure him that we want to make the most of his visit id certainly to put his words into print along with those of the other people who have participated id to distribute them as widely as possible to try and promote the sort of discussion that he's beaking of. I would like to thank him very much for his tremendous effort in getting here this sening and he did express a wish as he came in for one of those marvellous T shirts, which I would be to present to him.