RESUMING 11.40 A.M.	ā
MR BORICK: I hope I've correctly identified the	2
issue where the jury, in the light of the new material,	,
might have a reasonable doubt about proof of the element	Î
of the crime charged.	ļ
I think basically when I read my friend's outline	9
overnight and this morning that's the issue for your	
Honour.	3
HIS HONOUR: I'm sorry, the issue for me?	1
MR BORICK: Is whether a jury, in the light of the	1
new material, may have a reasonable doubt about the	1
proof of the elements of the crime charged.	12
And the second major proposition we have advanced is	1
that the issue of expertise is to be decided according	1
to the relevant legal principles which are well-known to	1
all of us, and that that does not depend on the	1
resolution of the scientific controversy. In other	1
words, I'm submitting to your Honour that you can't go	1
through a process of resolving the scientific	1
controversy and then go to the legal principles. You go	20
to whether they have achieved that by their training	2
study and experience.	2
That's all I really want to say about that because	2.
the principles are clear, and your Honour knows what the	2
issues are. My friend is arguing that they are not	2.
experts and we say they are.	2
HIS HONOUR: Do you say I can't consider their	2
evidence in determining whether they are experts?	2
MR BORICK: You consider their evidence. They are	2
claiming that, because of their scientific -	3
particularly Eleni Papadopulos, because of her	3
background as a physicist, she has an understanding of	33
the basic sciences involved in this case and that she is	3.
able to develop an opinion and provide an opinion to the	3
court on the issue of pathogenesis; that is, not only	3.
the cause of AIDS, if you like, but the issue as to	3
whether HIV has ever been isolated or purified. I'm	3
sure I don't need to take your Honour through that.	3

It's very clear what the difference between them is.

Our submission is that they have established themselves as an expert, that there is a scientific controversy and that that controversy can't be settled by your Honour accepting that the other seven or eight witnesses called all say that in their opinion Papadopulos and Turner are not experts.

HIS HONOUR: And in their opinion there is no controversy as I understand it.

MR BORICK: That's so. If you accepted those experts, then there is that controversy. Going back to the first point, it would then be a matter that could be put to a jury.

I think, your Honour, probably we are just looking from a practical point of view as lawyers. If there were to be a retrial then the prosecution would be put on notice that they have to prove that HIV exists and it causes AIDS. Professor McDonald would be called to give his evidence and Professor Gordon would have to be called. Professor McDonald would be cross-examined in much the way he was this morning and that would be before the jury. And if defence counsel were addressing the jury they would say 'Ladies and gentlemen, on the question of HIV causing AIDS that's our case and it's for you, not for his Honour or anybody else, you the jury will decide this'.

Obviously it would have to be put to Professor
McDonald in cross-examination what the views of the
Perth group were. Depending upon his answers, but I
would envisage then that the defence would call the
Perth group, they may call others like Duesberg or
Mullis, it's hard to look ahead, but at the end of the
day in the jury trial the jury would have been made very
well aware that there is a controversy, they would be
made very well aware of other experts, the prosecution
witnesses would say they shouldn't take any notice of
the Perth group. Fundamentally that's an issue for the
jury not for your Honour. That's why my starting point

is whether it could make a difference, the jury deliberating is an important one.

The dissident views I've summarised by Professor McDonald at pages 1376-1377. I'm not going to read them out. The two major ones are the very strict view held by the Perth group; the purification issue and the view held by Mullis and Duesberg that HIV does not cause AIDS. They are not contradictory because the Perth group and those who support them are saying you can't say that HIV causes AIDS because you haven't scientifically isolated HIV.

By the way I make this clear now: we are not saying, as I understand it, HIV does not exist. The position has always been HIV has not been scientifically proven to exist.

So they are the various dissident views. I want to come now to some of the ways in which it is said that one can prove that retrovirus known as HIV exists. I think the best way for me to present my argument on this is to take you to Dr Gallo's evidence in relation to two specific matters.

At p.1293 he is in cross-examination and I take you to line 30:

'To take the first four points that you made in your report to the court in combination ... 119 patients that we -'

Then I went to p.1294:

'How many was it. A. Well, I think we isolated in almost every patient with AIDS that ... than the healthy population.'

He went on to say at 1302:

'It depends on the ratio of the virus to the cells -'
I've moved to a different topic there. Can I take you
back to his evidence in relation to the denominator.

Has your Honour got his various papers there?

HIS HONOUR: Yes. Give me the exhibit numbers, yes. 36
MR BORICK: If your Honour could have the papers in 37
front of you. 38

HIS HONOUR:	Which ones are we talking?	1
MR BORICK:	The Gallo papers.	2
HIS HONOUR:	Do they have an exhibit number? That	3
would help me.	P86.	4
MR BORICK:	P86. If you go to p.502 of the second	5
science paper.	The number tested adds up to 48.	6
HIS HONOUR:	18 -	7
MR BORICK:	3, 3, 13, 10 and 1. That's where you get	8
the 48 from, a	nd the number tested is the next column	9
which gives yo	u 119. Now the figures down the bottom -	10
HIS HONOUR:	Where do you get the figure? By adding	11
them up?		12
MR BORICK:	Yes. So the clinically normal	13
heterosexual g	roup, that's where you get that figure.	14
That produces	the figure of 40.3% which we put to him.	15
We were right	in what we put to Dr Gallo. And his	16
response was t	ypical of him, he was aggressive, that's	17
his style but	he was very aggressive and this is his	18
papers and he	couldn't accept that the denominator which	19
we were referr	ing to was correct. Quite what he meant	20
at p.1294 when	he said:	21
'You are right	, judge, I don't accept the denominator	22
wouldn't s	ave the cause.'	23
I don't know w	hat your Honour reads into that what he	24
meant. But if	he is meaning to say it doesn't represent	25
an argument th	at HIV causes AIDS, which would really	26
represent our	position - so, that's his evidence in	27
relation to the	e actual figures. And then we turn to his	28
evidence about	the electron micrographs. If your Honour	29
goes to p.1302	at line 23:	30
'In May 1984 d	id the group that you were with to	31
publish any el	ectron micrographs.'	32
Over the page,	I'll take you to 1304, line 20:	33
'In the first	of the two papers that I've taken you to	34
that there	was a laboratory contamination.'	35
If you look at	the papers again, if you go to p.504 of	36
the document P	86.	37
HIS HONOUR:	Yes.	38

MŘ	BORICK:		It'	s ca	lled	figure	÷ 4	and	the	top rov	v is
	HTLV1,	the	second	row	is H	TLV2 an	ıd t	then	the	third,	
	that's	the	bottom	row,	is	patient	s	descr	ibed	as	
	present	ing	with Al	DS.							
CON	TINUED										

MS MCDONALD: Those three photographs, which are not photographs but he was claiming them to be, and subsequently you had understood him to be saying well, there was only one mistake, but in fact it was the three, and it was those three that he was referring to.

Now associated with that I took you through the evidence where we said we published electron micrographs of RF, RF as a person and he was using those photographs, as I understand him, to prove his case. RF as a patient is mentioned only in the fourth paper at 497 to 500. Table 2 on p.499 of the text on detection, isolation and continuous production of psychopathic retroviruses, HTL VL3, from patients with AIDS and pre AIDS. That table shows the column headed 'Electron microscopy' and the entry for RF is ND.

HIS HONOUR: Which page are you looking at now?

MR BORICK: P.499. ND is not defined in the legend in table 2 but in the legend in table 1, p.498, about eight lines up from the bottom, ND means not done. So if ND in this paper means not done, then RF, electron microscopy, was not done. I will take you back to his evidence at 1302:

'We also published electron micrographs of RF' And further down, at 25:

'Did you listen to anything I said? Are you listening ... at RF, look at the paper, you will see RF.'
Further down at 32 we showed electron micrographs. I suppose I was listening to him but I didn't know then, when he was in a sense yelling at me, that RF - photograph, but that's the fact of the matter.

So what I'm putting to your Honour is, those two examples I have given you about Dr Gallo you should treat him with the greatest of caution. He didn't give you straight answers in relation to the inquiry that went on for nine years, bullying his way throughout, his way of doing things.

I know your Honour may well have a different view about his approach to the oath but that proved very

strongly that he knew that the oath was important, whether he would swear or affirm. He must have known in giving his background knowledge that there is nothing different between the United States or anywhere else as to taking of the oath. It was, at the very least, a demonstration of a cavalier approach and when you combine that with the examples I've just given you where he has just got it wrong, Gallo should be treated with the greatest of caution, and that of course means that when you look at the issue of Gallo you are really looking at the person who is supposed, with Montagnier, and they thought about that between themselves, but he is the founder of all this and you see people continually going back to say 'Well here's the start and here's what we are relying on'. A passage in Dr Dax's evidence, which she did, she specifically relied on Montagnier and, by implication, on Gallo, and I, of course, am acutely aware that some of the witnesses have said 'times have changed, things have moved on' and all the rest of it, but the foundation for the whole of what Professor McDonald described this morning as the notion - I underline that word, it's his word - the notion that HIV causes AIDS, stems from the work of Montagnier and if Gallo and the foundation was flawed then the people who come along now and over the years who have argued that it should be looked at much more carefully, in other words there is a controversy, well then they should be taken seriously, in my submission. I mentioned Dr Elizabeth Dax and Dr Dax did not

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claim expertise in any area other than tests for HIV, that was at transcript 855, she said that there were very few ELISA's used in Australia any more, transcript 856. That statement is inconsistent with the evidence of all the other witnesses and just for example, Professor French at 793. All of them said that the ELIZA is still being used. Obviously it was still being used in 1997 when Parenzee was being tested, and the surprising proposition put to you by Dr Dax, who is

regarded as the expert in this area, is that very few ELISA's are used in Australia any more, and that is of significance when you find that the prosecution experts are not all speaking with one voice on a very important issue.

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One would have thought that if the Perth Group of Australia were out of touch, so out of line with all scientific thinking that it would be been very easy to dispose of them with almost one voice but it didn't. I know my friend says that she called all these people because there are different areas of expertise involved but certainly they did, each of them, from time to time say they are not experts, for example they all said they were not experts in electron microscopy, for that matter so did the defence experts. And there's a submission I want to make on microscopy, while I'm thinking about it now, that is you really haven't got any evidence at all on electron microscopy.

People have told you about photographs, we should go back to what would happen if this were a homicide trial and you were looking at photographs of a deceased, it would be an absolute requirement of any photograph that came along that you would need to have explained who took it, when it was taken, what it was taken of, and you'd look for what I call, in a broad sense, the source. Not one single photograph that has been put to your Honour has the source identified. Dr Dax you will recall said she couldn't remember whether she had seen it, Dr Dwyer said he could remember seeing some words from Semens but he couldn't remember where he had seen them, but overall you ought not to, in my submission, as the judge in this case or any of us as lawyers, try to interpret these photographs that were put before you because we haven't got any evidence, we don't know what they are supposed to mean.

Professor Cooper, he did not claim expertise in either virology or the HIV test kit results. Professor Kaldor, his evidence depends upon the accuracy of the

various test kits that were used over the relevant period of time, and Professor French acknowledged that AIDS is caused by factors in addition to HIV and those factors have not been established.

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I refer to the mathematical proposition that I put to Professor McDonald this morning, H plus X equals A, where H means HIV and A can mean CD4 cell depletion or AIDS. There can be no doubt on the evidence from the Rodriguez Study that X equals - if you took 100 as the mean - X equals 95. So as a matter of putting a case to a jury, if your Honour were to put yourself in the position of defence counsel and you had that sort of concept you could put it to the jury as something they could easily understand. You've got all these factors which can cause AIDS but 95 of them you don't know what they are. It's just supposition. And to go on from there to make the statement that 'In my opinion' - put in inverted commas - 'In my opinion, HIV causes AIDS', without knowing how or why, is an issue which would be put to a jury and a jury would have to make their assessment of that and could make an assessment of that. They are not being asked there, in that situation, to look at some of the very complex issues we have had to try to get our heads around in this case. They can look at something that's very straightforward and very easy to grasp.

I'm not going to take your Honour through the comparative study -

It's your chart, comparative chart. HIS HONOUR: MR BORICK: Yes, chart. It speaks for itself, and we have highlighted some of the differences, but there is just one answer I'd take you to, it's p.13, item 31 'It was determined ... and all other RNA's.' And that was accepted by French. But it was Gallo's answer which is interesting, further to my submission to you about treading carefully. His answer was: 'Well, you do do that but the answer is really ... want it very much but of course the answer is no.'

That's at p.1291. That's basically one of the most unscientific answers I've heard from a scientist, ever.

The diagnosis of HIV in 1997, and we have got the specific example of our client in this case, it was the positive ELISA, a Western Blot indicating a reaction, the IMSV print-out that your Honour is familiar with, that's the Higgins document, viral load and CD4 cell counts. You've heard enough to know precisely what our position on ELISA and Western Blot are and therefore I don't need to go through that now. You know what our position is on CD4 cell counts and you know what our position is on viral load and your Honour will recall the figures that we put to each of the witnesses, that Turner referred to, showing they are just all over the place. So you know our position on all of those and in our submission no unique genetic sequence has ever been produced to this court.

What I am going to do now, without reading out a lot, is to just give you references to where the various witnesses have referred to genetic sequence, and I'm going to refer to just some passages in it but I'll be able to provide you later today with a copy of the document I'm holding where I have pulled the relevant pages together. I'm sorry I just didn't have it ready before.

Cooper, at 706, was cross-examined about the gene bank at Los Alamos and it was put to him that the director, Mr Foley, said that the HIV genome is a Tly (a) RNA which originated from material which was not purified, and he said 'I'm not aware of that'.

Professor French at p.789 says:

'In my mind it has definitely been resolved, HIV is a ... to the virus that don't occur in any other virus.' P.791 he has referred to:

'The RNA is the sequence of the viral RNA known to measure the amount of viral RNA.'
And at the same page, line 15:

'We can also use that complementary DNA to seek	1
parts of the viral genome.'	2
A bit further down the page at 28:	3
'So we are interested transcriptase enzymer.'	4
Dax at p.897 said:	5
'You take that virus, treat it and sequence it	6
related to other viruses.'	7
And at 918 she said:	8
'I have read this several times over, this gold standard	9
call it isolation of the virus, the gold standard.'	10
CONTINUED	11
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HIS	HONOUR:	What page is that?	-
MR	BORICK:	P.919. She says there:	2
	'I think the g	old standard these days is the genomic	5
	sequence.'		4
	Certainly she	didn't understand the gold standard, now	Ę
	she says she th	hinks it was the genomic sequence.	6
	Dr Dwyer,	at p.959, mentioned the genetic sequences.	7
	At line 25, he	said:	8
	'Rather than de	etecting the whole that is unique to	Ž
	the virus.'		10
	At p.960, it wa	as referred to him the genomes are stored	11
	in a database a	at Los Alamos. At that page also, he was	12
	asked:		1.3
	'With a HIV gen	nome, are there it certainly is	14
	complex.'		15
	At p.961:		16
	'If you go acre	oss the whole genetic material	17
	and the virus o	can be taken very quickly.'	18
	Further down the	hat page:	19
	'It can vary w	ithin one person. Even within the cell of	20
	a person you ca	an see different HIV strains.'	21
	At p.972,	cross-examination, I put to him:	22
	'You referred t	to a number of occasions but there are	23
	two separate se	equences.'	24
	Further down th	hat page, he said he was not aware of p24	25
	being found in	breast cancer:	26
	'I'm aware of H	HIV-like sequences being found in breast	27
	cancer.'		28
	Then Profes	ssor Gordon, at p.1027, said:	29
	'We know that r	not every HIV virus has exactly the same	30
	sequence.'		31
	At p.1036:		32
	'So, for exampl	le, some endogenous retrovirus	33
	that's in the I	literature.'	34
	At p.1092, I as	sked him:	35
	'Can we look at	a sequence. Can we see it on paper	36
	look at any art	ticle you are referring to.'	37
	At p.1093:		38