

PublisherInfo		
PublisherName	:	BioMed Central
PublisherLocation	:	London
PublisherImprintName	:	BioMed Central

## Origin of AIDS: debate intensifies

ArticleInfo		
ArticleID	:	3765
ArticleDOI	:	10.1186/gb-spotlight-20000914-01
ArticleCitationID	:	spotlight-20000914-01
ArticleSequenceNumber	:	202
ArticleCategory	:	Research news
ArticleFirstPage	:	1
ArticleLastPage	:	4
ArticleHistory	:	RegistrationDate : 2000-09-14 OnlineDate : 2000-09-14
ArticleCopyright	:	BioMed Central Ltd2000
ArticleGrants	:	
ArticleContext	:	130591111

**Robert Walgate**

**Email:** [walgate@scienceanalysed.com](mailto:walgate@scienceanalysed.com)

---

LONDON, September 12 (*Science Analysed*). Yesterday the [Royal Society of London](#), bravely attempting to inject some scientific order into a debate on the origin of AIDS, found itself in the midst of one of its hottest conflicts yet.

"We are being accused of lying" said Stanley Plotkin, of the University of Pennsylvania. Plotkin has spent a year with writer Ed Hooper's book, *The River*, investigating its argument that trials of an oral polio vaccine, CHAT, transmitted the chimpanzee virus SIV to the world in the Congo in 1957-59, thereby launching the AIDS epidemic when SIV evolved into HIV in the human population. "After a year's work, I'm satisfied the things alleged never happened."

Ed Hooper, also on the podium at the end of the first of two days of presentations on the hypothesis, said "I have been deeply unimpressed by what Plotkin and Koprowski [Hilary Koprowski of Thomas Jefferson University, with Plotkin the creator of CHAT] said today," said Hooper. "I have heard no substantial answer to any of the central tenets in *The River*."

So the key protagonists stated their positions at the end of the first day of presentations on the CHAT hypothesis even more firmly, it seems, than they would have done at the beginning.

The problem has been that, until yesterday, the direct evidence on either side seemed to be contradictory reports of statements by scientists and technicians about whether chimpanzee kidneys were ever used as a substrate to create CHAT, and if that was used in the vaccination of a million or so Africans, some 100,000 of whom might have been over five years old.

It is agreed that HIV was a zoonosis, and that HIV-1-M, the major HIV strain, is most closely related to chimpanzee SIV, but there all agreement ends.

But why didn't yesterday's announcement by the Wistar Institute, where Plotkin and Koprowski worked, that three independent laboratories had found "no AIDS-related viruses or chimpanzee DNA ... in 1950s-era polio vaccine," and that the mitochondrial DNA present was of macaques, not chimpanzees, stop Ed Hooper in his tracks?

In the Wistar press release Claudio Basilio of the New York Medical Center, head of the Wistar external AIDS/Poliovirus Advisory Committee that organized the testing, says that "there is nothing in the results from these tests to support the theory that HIV entered the human population during the late 1950s poliovirus clinical trials in Africa."

But, Hooper claimed to [BioMed Central](#), these few millilitres of seven samples of CHAT vaccine held in the fridges at Wistar "were of unknown provenance. I don't know if they were used in Africa." Documentation was poor, he said. Even Claudio Basilio, speaking with *BioMed Central* yesterday, described the 1950s vaccine work as having been done with a certain "disinvolto - as we say in Italian." (Translated into English the word means 'carefree'.) "But after all this was 40 years ago" said *BioMed Central*. "Yes, but not 400," said Basilio.

Hooper, Plotkin and Koprowski agree that one of the samples, labelled CHAT-13, was used in Africa. But according to Hooper it was also used in Poland, and was the fridge sample the Polish version? Hooper claims the same pool of vaccines was passaged through different substrates in different laboratories - something Plotkin claims would be "crazy." Hooper also claims the Wistar results to be irrelevant, because some of the CHAT vaccine used in Africa may have been made in Africa and Belgium on chimpanzee substrates, something Plotkin and Koprowski vehemently deny - they say they used monkeys from the Philippines and India, and made the vaccine in America.

At the press conference, Koprowski said that while the vaccine used in Africa "was used up", as Hooper had claimed, the samples tested at Wistar were the remnants of a seed lot. Were they the same as what was used in Africa, Koprowski was asked? "Exactly" he said. And he pleaded: "You know at that time an aggressive attack on polio was mandatory. It was considered like AIDS is now."

So the debate rolls on. 'Scientific facts' that will close this case seem extremely hard to come by, and the argument continually falls back on claim and denial; but the Royal Society meeting is certainly struggling to find what science it can.

Apart from the purely verbal claims and counterclaims, of which there are legion, other potentially testable matters so far being discussed at the meeting, and all contested by Hooper either factually or for their relevance are:

- that the chimpanzee SIVs most closely related to HIV come from a West Central African species, not the Eastern African species most likely to have been used (if at all) for CHAT; - that SIV does not culture in kidney cells, and would be destroyed by the vaccine production process; - that tracing the common point of origin of the many HIV varieties points to a date of divergence between 1910 and 1940, and according to one study, to a date earlier than 1950 with 95% confidence; - that Hooper's map of the geographic and temporal coincidence of the first cases of AIDS and the delivery of CHAT is mistaken and statistically insignificant (for example, says Plotkin, there were cases in Katanga province where no vaccine was given).

However, when *BioMed Central* asked Ed Hooper if there was any evidence that he would accept as destroying his claim, so ending the debate, he said just one thing would do: "finding HIV-1 M in a human sample prior to 1955."

## References

1. The Royal Society, [<http://www.royalsoc.ac.uk/>]
2. BioMed Central, [<http://www.biomedcentral.com>]

