Directorate of Intelligence

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## Science and Weapons Daily Review

Thursday 28 February 1985

**Top Secret** 

SW SWDR 85-037C

28 February 1985

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1	USSR: RESEARCH ON AIDS-LIKE VIRUS	2
	A reliable source reported that in 1981 the Soviets were conducting research to develop a vaccine for an AIDS-like virus to protect military personnel. We believe that Soviet scientists obtained the virus in African countries where it occurs naturally.	2
3	INDONESIA: SUHARTO ENDORSES DEVELOPMENT OF BIOCHEMICAL WARFARE INDUSTRY	2
	Initially, Indonesia probably will concentrate on developing the capability to produce detection and protective equipment to provide a defensive capability against the threat of chemical/biological warfare—a threat it perceives is growing in the region	2
4	KEY JUDGMENTS: WESTERN EUROPE: TRENDS IN BIOTECHNOLOGY COMMERCIALIZATION	2
	The industrial commercialization of biotechnology is being supported by governmental and industrial programs in many West European countries. Within six to eight years, we expect major multinational corporations in these countries to compete with Japan and the United States for markets in the pharmaceutical, agricultural, chemical, and energy-related	
	industries industries	2

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Science and V	Veapons	
Daily Review		
JSSR: RESEARCH ON A	IDS-LIKE VIRUS	25
	eported that in 1981 a Moscow facility had developed a developed the human immune system. Research was	
	op a vaccine for the protection of Soviet military	
personnel.		25
	The viral effects	25
reported closely ma	atch those of acquired immune deficiency syndrome (AIDS).	25
		20
into the United Sta	was transmitted to Haiti, from which it was introduced tes. Originally described as a disease of homosexuals cases are now being reported in the general US	25
Comment:		
point source (Haiti) related research on resulted from a nat warfare (BW) agent BW agent because development of an	rently was introduced into the United States from a single and the Soviets reportedly have been doing military— an AIDS-like virus, we have investigated whether AIDS cural disease outbreak or an incident of biological dissemination. We believe AIDS is an unlikely candidate the variability of the virus would seriously hinder the effective protective vaccine for the user. We conclude nited States almost certainly resulted from a natural	
disease outbreak	and otates annost containly resulted from a natural	25
	ere in Uganda and Zaire between 1975 and 1979, and it is y transported the AIDS virus to the USSR for research	
		25
	28 FEBRUARY 1985 1 SW SWDR 85-037C	20

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as opposed to the Soviets having developed it via genetic engineering or other advanced biotechnical methods

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INE	OONESIA: SUHARTO ENDORSES DEVELOPMENT OF BIOCHEMICAL WARFARE INDUSTRY
	The Indonesian press reports that President Suharto has endorsed a request from the Army Chief of Staff for the development of a biochemical warfare industry "because other parties are already using poisonous gas."
	Comment:
	Since 1980 Indonesia has demonstrated a heightened interest in acquiring defensive chemical/biological warfare (CBW) capabilities. The reported development of a biochemical warfare industry probably pertains to the production of detection and/or protective equipment because Indonesia has almost no capability to defend itself against a CBW threat. Indonesia perceives the use of chemical warfare in conflicts in Southeast Asia and the acquisition of chemical warfare capabilities by neighboring states as a growing threat to the region
	Indonesian actions taken in response to the threat include establishing a nuclear, biological, and chemical (NBC) warfare center at Bogor, West Java; training officers in West German military schools as NBC specialists; training NBC officers domestically; announcing tenders for the purchase of gas masks for the police and armed forces; and participating actively in the negotiations on a chemical weapons ban at the Conference on Disarmament in Geneva
	Although Indonesia probably will not initiate efforts in the near future to acquire an offensive CBW capability, the developing pattern of CBW-related actions put it among the nations with a long-range potential for CBW proliferation.

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EY JUDGMENTS: WE	STERN EUROPE: TRENDS IN	BIOTECHNOLOGY COMMERCIALIZATION	25)
Although Western Europe currently lags the United States and Japan in biotechnology applications, we believe that recent governmental and industrial programs to promote biotechnology will enable Western Europe to become a strong worldwide competitor in health care and agricultural markets within six to eight years. West European countries having the strongest competitive positions are West Germany, the United Kingdom, Sweden, Switzerland, and France. We believe West European companies will develop significant strengths in marketing products to Third World countries.  Although many West European firms are pursuing wide-ranging biotechnology interests, we expect competition mainly from large multimational companies in markets in which they have been traditionally strong. These markets include the four top areas for biotechnology applications: pharmaceuticals, agricultural products. large-scale process technology, and energy-related applications.  Forecasts of annual worldwide markets for biotechnology-related products by the year 2000 range from 15 billion dollars to over 100 billion dollars in total product sales. This market projection is of the same magnitude as the current world semiconductor market, which is approximately 25 billion dollars. Better market predictions are not yet possible. because the critical technical, economic, and political factors affecting future markets are not yet well understood or defined.  At present the West European countries generally have some top quality basic research foundations and some industries and engineering institutes	25)		
biotechnology ap industrial program become a strong markets within si strongest compet Sweden, Switzerla develop significar	plications, we believe that one to promote biotechnology worldwide competitor in his to eight years. West Europetitive positions are West Geand, and France. We believe	recent governmental and gy will enable Western Europe to ealth care and agricultural opean countries having the ermany, the United Kingdom, we West European companies will	
countries.			25)
interests, we exp- in markets in whi include the four t agricultural produ	ect competition mainly fron ich they have been tradition top areas for biotechnology	n large multinational companies nally strong. These markets applications: pharmaceuticals,	25)
аррисанона.			237
the year 2000 rar total product sale the current world dollars. The esti 500 million dollar because the critic	nge from 15 billion dollars to es. This market projection I semiconductor market, wh mate of the 1983 worldwide rs. Better market prediction cal technical, economic, and	to over 100 billion dollars in is of the same magnitude as nich is approximately 25 billion e biotechnology market is about are not yet possible, d political factors affecting	25)
At present the W basic research fo	est European countries ger oundations and some indust	nerally have some top quality tries and engineering institutes	
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~	-	ation. Nevertheless, urope have been hampered by several	
research, de	qualified personnel to development, and enginee of scientists and engine		
Difficult trar	nsitions from the laborat	tory to the market place.	
Relatively fe	ew firms engaged in inno	ovative research.	
Lack of coo	peration within the Euro	pean Community.	25X1
particular, their su	pport for applied biotecl past three years. Effor	g to overcome these deficiencies; in hnology research has increased its to promote biotechnology in	
expenditure	s and that is intended to s well as encourage sup	valent to Japanese public o help stem emigration of oport for commercial	
Financial inc	centives for small applie	d research firms.	
establishing	cooperative ventures by technology parks and c it, and in investing funds		
Programs to	o develop trained manpo	ower.	
Internationa	l development agreemer	nts.	
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