



PRESS RELEASE

MVI and Crucell Announce Collaboration to test new Adenovirus-based Malaria Vaccine Approach

Partners seek to protect against deadliest malaria parasite using virus-based transport method to deliver malaria antigen

Leiden, The Netherlands (July 29, 2009) – The U.S.-based PATH Malaria Vaccine Initiative (MVI), the United States Agency for International Development (USAID) Malaria Vaccine Development Program (MVDP) and Dutch biopharmaceutical company Crucell N.V. (Euronext, Nasdaq: CRXL; Swiss Exchange: CRX) today announced a collaboration to accelerate development of a promising type of malaria vaccine. Through funding from the USAID MVDP, the partners will conduct studies to determine the effectiveness of Crucell's novel prime-boost vaccine approach against the malaria parasite, *Plasmodium falciparum*. This approach uses Crucell's proprietary recombinant adenoviruses (a type of virus associated with the common cold and other mild respiratory infections) to deliver a malaria antigen to the immune system.

Dr. Jaap Goudsmit, Chief Scientific Officer at Crucell commented: "This agreement is a strong validation of Crucell's malaria vaccine. We are excited to have the MVI as our partner and the support of USAID. The fact that MVI is backing our program testifies to the importance of our efforts to further progress the development of Crucell's malaria vaccine."

For MVI, this partnership adds to its existing portfolio a vaccine approach with the potential to elicit a more comprehensive immune response than has been seen to date from the circumsporozoite protein (CSP), the only antigen that has proven to be protective in controlled challenge studies and field studies. Using Crucell's AdVac[®] technology with two different adenovirus vectors - Ad35 and Ad26 - as delivery mechanisms, this approach seeks to elicit a protective immune response obtained from delivering the CSP. The safety, immunogenicity and efficacy data from these studies will advance the research forward in the further development of a safe and highly effective malaria vaccine.

Dr. Christian Loucq, Director at MVI said: "Adenoviruses are one of the most potent vaccine delivery systems tested to date in humans. We are excited about the potential of Crucell's adenovirus-based program and the novel Ad35/Ad26 approach. The prime-boost regimen may be a critical next step in malaria vaccine development and, if successful would move us toward our goal of having an 80% efficacious vaccine in use by 2025."

Crucell is developing a recombinant malaria vaccine, Ad35-CS, based on the company's AdVac[®] technology and PER.C6[®] manufacturing platform. The vaccine candidate is made by inserting the gene for the CSP from the *P. falciparum* malaria parasite into adenoviral vectors, which act as a 'vehicle' for vaccination delivery. This prime vaccine candidate is currently being tested in a phase I study in partnership with the National Institute of Allergy and Infectious Diseases



(NIAID). This new collaboration will make it possible to clinically develop the Ad26 boost component of the vaccine and allow Crucell to further strengthen and expedite its malaria development program.

Carter Diggs at the USAID MVDP said, "We are pleased to support this adenovirus approach, which could play a vital role in malaria vaccine development."

About AdVac[®] technology

AdVac[®] technology is a vaccine technology developed by Crucell and is considered to play an important role in the fight against emerging and re-emerging infectious diseases, and in biodefense. The technology supports the practice of inserting genetic material from the disease-causing virus or parasite into a 'vehicle' called a vector, which then delivers the immunogenic material directly to the immune system. Most vectors are based on an adenovirus, such as the virus that causes the common cold.

The AdVac[®] technology is specifically designed to manage the problem of pre-existing immunity in humans against the most commonly used recombinant vaccine vector, adenovirus serotype 5 (Ad5), without compromising large-scale production capabilities or the immunogenic properties of Ad5. AdVac[®] technology is based on adenoviruses that do not regularly occur in the human population, such as Ad26 and Ad35. In contrast to Ad26 and Ad35 antibodies, antibodies to Ad5 are widespread among people of all ages and are known to lower the immune response to Ad5-based vaccines, thereby impairing the efficacy of these vaccines. All vaccine candidates based on AdVac[®] are produced using Crucell's PER.C6[®] production technology.

About PER.C6[®] technology

Crucell's PER.C6[®] technology is a cell line developed for the large-scale manufacture of biopharmaceutical products including vaccines. The production scale potential of the PER.C6[®] cell line has been demonstrated in an unprecedented successful bioreactor run of 20,000 liters. Compared to conventional production technologies, the strengths of the PER.C6[®] technology lie in its excellent safety profile, scalability and productivity under serum-free culture conditions. These characteristics, combined with its ability to support the growth of both human and animal viruses, make PER.C6[®] technology the biopharmaceutical production technology of choice for Crucell's current and potential pharmaceutical and biotechnology partners.

About Malaria

Malaria is one of today's top three killers among communicable diseases. The disease currently represents one of the most prevalent infections in tropical and subtropical areas causing severe illness in approximately 250 million individuals worldwide and causing close to 900,000 deaths every year. Most of these deaths occur among children under the age of five and pregnant women in sub Saharan Africa. Unfortunately, mortality associated with severe or complicated malaria still exceeds 10-30 percent. Malaria is caused by the *Plasmodium* parasite and transmitted person-to-person through the bite of a female *Anopheles* mosquito. Although the overwhelming majority of illness and death associated with malaria occurs in the developing world, this disease also affects travellers.



About MVI

The PATH Malaria Vaccine Initiative is a focused vaccine development program created in 1999 through a grant from the Bill & Melinda Gates Foundation. MVI's mission is to accelerate the development of promising malaria vaccines and ensure their availability and accessibility in the developing world. PATH is an international, non profit organization that creates sustainable, culturally relevant solutions, enabling communities worldwide to break longstanding cycles of poor health. By collaborating with diverse public- and private-sector partners, PATH helps provide appropriate health technologies and vital strategies that change the way people think and act.

About the USAID MVDP

The MVDP is a unit of the Division of Infectious Diseases of the Office of Health, Nutrition, and Infectious Diseases of the USAID Global Health Bureau. The MVDP, which was initiated in 1965 in response to the end of the first malaria eradication era, has worked with a variety of partners to contribute early research on the Circumsporozoite Protein and more recently, development of blood stage vaccine approaches leading to many of the investigational malaria vaccines fielded in recent years. Its mission is congruent with that of MVI: to develop and introduce malaria vaccines to protect vulnerable populations in the developing world. For further information:

http://www.usaid.gov/our_work/global_health/id/malaria/techareas/vaccine.html

About Crucell

Crucell N.V. (Euronext, NASDAQ: CRXL; Swiss Exchange: CRX) is a global biopharmaceutical company focused on research development, production and marketing of vaccines, proteins and antibodies that prevent and/or treat infectious diseases. Its vaccines are sold in public and private markets worldwide. Crucell's core portfolio includes a vaccine against hepatitis B, a fully-liquid vaccine against five important childhood diseases and a virosome-adjuvanted vaccine against influenza. Crucell also markets travel vaccines, such as the only oral anti-typhoid vaccine, an oral cholera vaccine and the only aluminum-free hepatitis A vaccine on the market. The Company has a broad development pipeline, with several product candidates based on its unique PER.C6[®] production technology. The Company licenses its PER.C6[®] technology and other technologies to the biopharmaceutical industry. Important partners and licensees include DSM Biologics, sanofi-aventis, Novartis, Wyeth, GSK, CSL and Merck & Co. Crucell is headquartered in Leiden, the Netherlands, with subsidiaries in Switzerland, Spain, Italy, Sweden, Korea and the U.S. The Company employs over 1000 people. For more information, please visit www.crucell.com.

Forward-looking statements

This press release contains forward-looking statements that involve inherent risks and uncertainties. Crucell has identified certain important factors that may cause actual results to differ materially from those contained in such forward-looking statements. For information relating to these factors please refer to our Form 20-F, as filed with the U.S. Securities and Exchange Commission on April 22, 2009, in the section entitled 'Risk Factors'. The Company prepares its financial statements under International Financial Reporting Standards (IFRS).



For further information please contact:

Crucell N.V.

Oya Yavuz
Vice President
Corporate Communications &
Investor Relations
Tel. +3171 519 7064
ir@crucell.com
www.crucell.com

PATH Malaria Vaccine Initiative (MVI)

Preeti Singh
Burness Communications
Tel. +1 301 652 1558 ext. 5722
psingh@burnesscommunications.com
www.malariavaccine.org