

## **HK Air Purification Technology Rated 100% Efficient in Removal of Airborne Viruses Including H5N1, H1N1 and SARS by Beijing University Study**

**(Hong Kong, September 21, 2011)** - As the city confirms its first case of bird flu since 2003, Oxyvital, Hong Kong's leading air purification company released results from Beijing University of Technology (BJUT) that conclude its air purifiers have 100% efficiency in the removal of airborne viruses including H5N1, H1N1 and SARS after 120 minutes in operation. The results state that Oxyvital air purifiers have a ONE-PASS or FIRST-PASS viral disinfection rate of 99.93%. That means, for every cycle of air that passes through the Oxyvital machines, 99.93% of the airborne viruses are reduced per cycle. Each cycle takes approximately 12 seconds.

The Oxyvital study was conducted by the College of Life Science and Bio-Medical Engineering at BJUT and was endorsed by one of China's leading virologists Prof Dr Zeng Yi, the Dean of the College of Life Science and Bio-Medical Engineering, BJUT. Prof Dr Zeng Yi is also the Dean of "Research Center for Academicians" in the National Institute for Viral Disease Control and Prevention in China.

The Bacteriophage (phage) used in this test was  $\phi$ X174. *"This virus was chosen precisely because at 27 nm (nanometer) the results can be directly inferred to be equally effective against the larger sized and more common rhinovirus and coronavirus e.g. common cold and SARS, and flu virus e.g. H1N1, H5N1",* says Oxyvital CEO Siew Kiat Wang.

The German-made Oxyvital air purifiers have been certified by the Hong Kong University of Science and Technology to be the only air purification technology yet tested that meets the stipulations of the World Health Organization (WHO) guidelines as adopted by the Hong Kong EPD for all indoor air quality (IAQ) pollutants.

### **How Does It Work?**

When air passes through the Oxyvital air purifier, it goes through a multi-stage pre-filtration process including a preliminary coarse pre-filter, a fine pre-filter and a HEPA pre-filter. These pre-filters remove dust and larger particles before the air is forced through a medical grade compressor and then into a patented ZeoSieve™ system.

The ZeoSieve™ system instigates a catalytic process that inactivates viruses and breaks down other airborne bacterial contaminants, some of which are smaller than 5 Angstroms (1 Angstrom = 1/10,000 micrometer). *"This is up to 2,000 times smaller than what most other air purifiers can process",* says Ilse Massenbauer-Strafe, Founder, Oxyvital. *"Other air-purifiers commonly rely on HEPA filters to provide a clean air solution, whereas Oxyvital uses the HEPA filter as part of the pre-filtration process only",* she adds.

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## **About Oxyvital**

[www.oxyvital.com](http://www.oxyvital.com)

Oxyvital is currently patented in U.S., Europe, China and select Asian countries. It obtained accreditation and certification from the Hong Kong University of Science and Technology (HKUST). It is also a German TUV certified medical device, and is recognised internationally for its stringent quality. The Oxyvital technology is currently widely used in Europe, America, China, Hong Kong and South East Asia. It is installed in government buildings, commercial and residential spaces, schools, fitness centers, medical institutions and more.

## **Beijing University of Technology Study**

For further information about the study, please find supporting documents attached in the following link: <http://www.oxyvital.com/test/2010oct-ChinaVirusTest/BJUT-Report-Combined-ChiEng.pdf>

## **Prof Dr Zeng Yi**

Prof Dr Zeng Li is the Dean of the College of Life Science and Bio-Medical Engineering, Beijing University of Technology (BJUT). Other honorary positions include:

- Virologist and Academician of Chinese Academy of Science in China
- Foreign member of Russian Academy of Medical Sciences
- Dean of "Research Center for Academicians" in National Institute for Viral Disease Control and Prevention in China
- Foreign member of French National Academy of Medical Sciences
- Member of Steering Committee, Asia Pacific Leadership Forum on HIV/AIDS and Development (APLF)
- Honorary President, US-China AIDS Alliance Foundation
- Honorary President, Chinese Association of Preventive Medicine
- Member of WHO Advisory Panel on Cancer