



# Biotech Daily

Thursday August 20, 2009

*Daily news on ASX-listed biotechnology companies*

## **\* EURO-DATA-SET BACKS BIOPHARMICA ALGORITHM FOR ANAESTHESIA**

### **BIOPHARMICA**

Biopharmica says Cortical Dynamics' brain anaesthesia response technology can differentiate between the effects of the analgesic remifentanil and the hypnotic propofol. Biopharmica said the analysis of a comprehensive data set from European clinical researchers, using Cortical Dynamics brain anaesthesia response (BAR) analysis methodology, was promising (BD: June 26, 2009).

Biopharmica and its shareholders hold a majority stake in Cortical Dynamics.

Biopharmica chairman David Breeze said that the results showed "the potential of the BAR methodology to separately monitor hypnotic and analgesic state using brain electrical activity recorded during surgery".

The company said that the data was provided by Prof Michel Struys from the Department of Anaesthesia at Belgium's Ghent University Hospital and Prof Tarmo Lipping from Finland's Tampere University as part of their original study involving the behavior of brain electrical activity during propofol induced sedation (*Anesthesiology* 2007; 106: 696-706.)

Biopharmica said data was recorded from 45 patients undergoing target controlled propofol anaesthesia in the presence of differing levels of the synthetic opioid remifentanil. It was hypothesized that the BAR analysis method would be able to differentiate the effects of the potent analgesic remifentanil and the potent hypnotic propofol on the patterns of brain electrical activity recorded.

The company said that objectively monitoring hypnotic and analgesic state would lead to improved anaesthetic and surgical outcomes.

Biopharmica said Cortical Dynamics was developing depth of anaesthesia monitoring for use in surgery based on electroencephalogram analysis using an algorithm, developed by Swinburne University of Technology's Prof David Liley in Melbourne.

Biopharmica was up two cents or 13.3 percent to 17 cents with 1.5 million shares traded.