Panacea Biotec
Innovation in support of life

PacliALL
Paclitaxel (Albumin-Bound nano particles) for Inj.

Panacea Biotec adds another feather to its cap

Indigenously developed PacliALL grabbed Best Product of the Year Award

Reaffirming its mission – "Innovation in Support of Life", PacliALL – an indigenously developed Albumin bound Paclitaxel Particles formulation by Panacea Biotec has won the prestigious BioSpectrum Product of the year Award 2011 at Bangalore on 16th December 2011.

The award was received by Dr. Rajesh Jain, Joint Managing Director from Mr. Abraham Mathew Chief Editor of BioSpectrum during the 9th BioSpectrum Award ceremony held at Bangalore recently, which was attended by the crème de la crème of Indian biotech industry

Caption – Dr. Rajesh Jain, JMD, Panacea Biotec Ltd receiving the "Best Product of the Year Award - 2011" from Mr. Abraham Mathew Chief Editor, BioSpectrum at 9th BioSpectrum Awards at Bangalore.

(L-R) – Mr. Sarabjit Singh, VP, Pharmaceutical Research, PBL, Mrs. Meena Jain, Dr. Rajesh Jain, JMD, Panacea Biotec Ltd, Mr. Abraham Mathew, Chief Editor, BioSpectrum, Dr. Naveen Jain, GM, Biology Research, PBL and Dr. Mahalaxmi Andheria, VP, IPR, PBL

Dr. Rajesh Jain, Joint Managing Director, Panacea Biotec Ltd said "There couldn't be any other way to say good bye to year 2011. We are delighted to receive such a prestigious award. This award is a reflection and recognition of the hard work put in by our employees particularly the R&D Team at GRAND, without their dedication this honour would not have been possible."

The indigenously developed PacliALL from Panacea Biotec is a formulation of albumin-bound Paclitaxel particles. The product is more affordable than the innovator and safer than the conventional formulations of Paclitaxel as a chemotherapeutic agent for the treatment of breast cancer

PacliALL was launched by Panacea Biotec on Feb 12, 2011 at the Indian Cancer Congress at Bhubaneswar, Orissa, India. The indigenously developed PacliALL uses one of the world's most advanced particle size optimization technology to reduce serious adverse effects, including severe anaphylaxis and sensory neuropathy associated with conventional Paclitaxel formulations. This product also offers several patient convenience aspects like shorter infusion time and elimination of the need for premedication. The product is available at a price that is approximately 50 percent less than the imported one in domestic and global markets.

The uniqueness of PacliALL is that it is three times more efficacious than conventional, solvent based, Paclitaxel, in terms of response rate. It is free from the undesirable side effects of chremophore like anaphylaxis shock/skin reaction and higher grade of neutropenia among others. Also, the patients need not to be treated with pre-medication, containing steroids. Drug related neuropathy is reversible unlike the conventional, solvent based, Paclitaxel.

Due to the above advantages of PacliALL over conventional Solvent based Paclitaxel, a higher dosage of approximately 1.5 times can be given to patients, without the risk of increasing side effects. The intra tumor concentration of drug is also very high when compared with the conventional one because of targeted delivery.

Panacea Biotec sees great potential for the product in the rest of world. Keeping this in mind, Panacea Biotec is setting up a new manufacturing facility with an investment of Rs. 55 crore at Baddi, Himachal Pradesh, India in order to cater to the growing demand in India, & also to the international market. This facility is expected to begin commercial production by March 2012. In the next three years, the product will be globalized and PacliALL will be introduced to several RoW markets, key EU markets and US market.

From Idea to Market

The research on the project started almost six years ago with the objective of bringing the latest, state-of-the-art safe and effective medication to the country. These areas included the nano-particles, microparticles and liposomes. At that time, the company was already into novel drug delivery system with an R&D center located at Lalru, Punjab, with focus on oral drug delivery.

Narrating the idea behind the product, Dr Jain, says, "We decided to move away from conventional technology and develop something that was upcoming at that time. We hired a core team of scientists to look into this area of advanced drug delivery system and found that nano-particle technology could help treat breast cancer patients with fewer side effects and efficaciously."

In 2005, the company hired some space on the premises of SNDT Women's College, Mumbai, and started research on nano-particles. They also started work on the R&D Center, which is now known as global research and development (GRAND), Navi Mumbai. The work at the center, inaugurated on February, 11, 2008, was conceptualized over four core areas of advanced drug delivery through especially programmable oral drug delivery system.

A team of about 15 scientists from India and abroad worked dedicatedly to make this product a market reality. The technology involved emulsion-solvent evaporation and is based on the principle of high pressure homogenization. Paclitaxel and albumin are in intimate mixture and of a controlled particle size of less than 150 nm. The final product is stabilized by lyophilization. Without giving the exact amount of investment to develop this product, Dr Jain points out that the process of investments is still on.

To know more about PacliALL, please contact

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Note on Breast Cancer

Worldwide, Female Breast Cancer comprises 10.4% of all cancer incidences among women, making it the most common type of non-skin cancer in women and the fifth most common cause of cancer death. According to WHO, Female Breast Cancer is one of the major challenges where almost 1 out of 8 women is going to have this dreaded disease by 2020 across the Globe. In India around 80000+ patients are diagnosed with breast cancer every year. Though science has made significant progress in the treatment of breast cancer but the benefit is restricted to very few as the treatment costs are highly unaffordable by majority of by suffering population.