



PBL NEWS



PBL News - Issue 27 - Jan 2014

Inventor recognised with MIT Technology Review Award



Julieta Cabello, inventor of two technologies managed by PBL: HaHB1 (08.465 / 12.531) and HaHB11 (12.550) - has been named Argentina and Uruguay's Young Innovator of the Year 2013 in the MIT Technology Review Awards. This is a richly deserved recognition for Julieta's excellent work in identifying and characterising two very promising technologies for crop improvement. Julieta's co-inventor, Raquel Chan heads the CONICET-funded laboratory in the [Universidad Nacional Del Litoral](#), where the research has been carried out.

Please click the links for the full article in [English](#) or [Spanish](#).

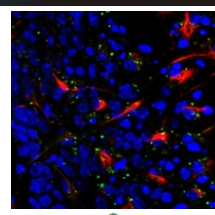
For more information, please contact Dr Jan Chojecki (ajsc@pbltechnology.com).

PBL Tech ID: [08.465/12.531](#) & [12.550](#)



Evaluation Licence signed for Neural Stem Cell technology

A company involved with the development of stem-cell technologies has signed an agreement to test PBL's "Oligodendrocyte differentiation" technology in its in-house systems. The technology originated from the [University of Coimbra](#) in Portugal, where scientists led by Prof João José Malva had shown that small peptide fragments of the haemoglobin protein family (termed haemopressins) could stimulate neural stem cells to develop along the oligodendrocyte (ODC) lineage. ODCs are critical to neural signalling, particularly in the peripheral nervous system and are the major target of attack in Multiple Sclerosis. The ability to produce new ODCs could be of critical importance in the future treatment of MS and other neurodegenerative diseases.



For more information, please contact Dr Martin Stocks (martin@pbltechnology.com).

PBL Tech ID: [11.519](#)



PBL has entered into a Commercial Licence Agreement with Mahyco for Virus Resistance technology

[Maharashtra Hybrid Seeds Co Ltd \(Mahyco\)](#) and PBL have signed a commercial licence agreement to allow Mahyco the development of virus resistant crops using PBL technology. Mahyco is the leading provider of seeds and biotechnology to the Indian farmer. The virus resistance technology was developed by Professor Linda Hanley-Bowdoin and co-workers at [North Carolina State University](#).

For more information, please contact Dr Lars von Borcke (lars@pbltechnology.com).

PBL Tech ID: [05.395](#)



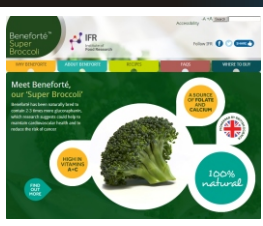
Beneforté Broccoli

Beneforté recognised in top European technology transfer Impact showcase

The Beneforté story has been selected amongst the 14 top technology transfer stories in Europe and is showcased in the special ASTP 2013 "Impact Report for Europe". ASTP (www.astp.net) is the European Association of Technology Transfer Professionals and principal association for public sector TT in Europe. Its Europe-wide survey highlighted outstanding examples of products made possible by European public research, and which have the potential to dramatically alter lives of people for the better. The Beneforté story is one of just 14 selected as the top examples, and is included in the new report.



Please click [here](#) for the Beneforté story, or [here](#) to buy the full report.



New website for Beneforté SUPERBROCCOLI www.superbroccoli.info

A new website is now live providing everything you ever wanted to know about Beneforté broccoli and glucoraphanin in the diet. The site contains information about how Beneforté was developed, where you can buy it, the large body of scientific research on glucoraphanin and even recipe ideas from leading chefs. Please click [here](#) to visit the website.

For more information, please contact Dr Jan Chojecki (ajsc@pbltechnology.com).

PBL Tech ID: [95.059](#)



Innovation in life sciences

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IP protection

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PBL NEWS



Licensing success for Drought Tolerance technology from IBMCP, Valencia

PBL is marketing an exciting new technology developed by Pedro Rodriguez in the CSIC-funded Institute of Biotechnology and Molecular and Cellular Physiology at the [Universidad Politecnica da Valencia](#), Spain. Mutations in an ABA receptor PYL4 confer excellent tolerance to drought, and the findings have been published in Plant Physiology ([Rodriguez PL The PYL4 A194T mutant uncovers a key role of PYL4-PP2CA interaction for ABA signaling and plant drought resistance. Plant Physiology \(2013\) DOI:10.1104/pp.113.224162](#)).

The technology has generated a great deal of commercial interest and PBL has already granted commercial rights for use in several agriculturally important crop species.

For more information, please contact Dr Jan Chojecki (ajsc@pbltechnology.com).

PBL Tech ID: 13.554



IP protection

Novel plant growth control technology published in Developmental Cell

[Dr Ari Sadanandom](#) has now published his exciting innovation for enhancing plant growth. The SUMO-modification technology allows a wide range of important plant developmental pathways to be modified to improve crop plant productivity. Please click [here](#) for the news release.



The technology is available for licensing from PBL.

Ref: Small Ubiquitin-like Modifier Protein SUMO enables plants to control growth independently of the phytohormone Gibberellin, Conti, L, et al. *Developmental Cell*, Volume 28, Issue 1, Manuscript 2850, DOI: 10.1016/.

For more information, please contact Dr Jan Chojecki (ajsc@pbltechnology.com).

PBL Tech ID: 12.540

Funds and manages patent filing and prosecution

Builds complementary technology packages

Seed Treatment contributes further example of impact



[Lancaster University's](#) jasmonic acid (JA) seed treatment technology, which is licensed by PBL to Becker Underwood (now part of [BASF](#)), is used on a substantial acreage of soybeans in the US, is now also sold in Latin America and soon will be introduced in Europe. The seed treatment enhances the plant's ability to withstand attacks by herbivores and thus contributes to increase yield. The commercial success of the technology demonstrates its considerable impact in increasing agricultural production.

Lancaster University has selected the JA story as one its Impact Case Studies submitted for the [REF 2014](#) exercise. See the article in Lancaster University's [Business Partnerships And Enterprise Annual Report 2012-2013](#).

For more information, please contact Dr Lars von Borcke (lars@pbltechnology.com).

PBL Tech ID: [07.430](#)

Markets technology to commercial users

Concludes and monitors technology licences

Patent News

Commensal Bacteria Drug Delivery - PBL Tech ID: [09.490](#)

Grant of Korean patent extends coverage of PBL's "Ovatus" probiotic delivery technology. Granted patents now include US, Europe, Japan and Korea. The technology has also attracted a £1M+ translational grant from the BBSRC's Follow-on Fund, work on which started this month and will run for 2 years.

Contact: Dr Martin Stocks (martin@pbltechnology.com).

Root Hair Enhancement - PBL Tech ID: [00.244](#)

Australian patent number 2008252710 granted 28 November 2013.

Contact: Dr Jan Chojecki (ajsc@pbltechnology.com).

Jasmonic Acid Seed Treatment - PBL Tech ID: [07.430](#)

Patents granted in 2013: Australia 2007274083 on 4 April 2013; Europe 2066176 on 29 May 2013; Japan 5322931 on 26 July 2013; US 8,507,756 on 13 August 2013; Canada 2657057 on 17 September 2013.

Contact: Dr Lars von Borcke (lars@pbltechnology.com).

HaHb1 Plant Stress Tolerance - PBL Tech ID: [08.465](#)

Australian patent grants January 2014.

Contact: Dr Jan Chojecki (ajsc@pbltechnology.com).

CPMV - "HyperTrans" Plant Molecular Production Technology - PBL Tech ID: [07.439](#)

US patent grants January 2014.

Contact: Dr Lars von Borcke (lars@pbltechnology.com).

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