SUMMARY: Plant-TEC List September 2025



Non-confidential list for non-subscribers to the PBL TEC Scheme. To discuss subscribing to the TEC Scheme and find out what your company is missing, please contact info@pbltechnology.com.

New or updated technologies are listed in RED. Technologies currently in the TEC exclusivity period are listed in BLUE. RFI FASE SOURCE **TECH ID TECHNOLOGY DESCRIPTION** DATE **ORGANISATION** CROP PERFORMANCE TECHNOLOGY **DEVELOPMENT AND YIELD** 07-Jan-08 07.436 Gene controlling plant seed and organ size, and plant biomass UK 12.546 26-Mar-13 UK / China Gene for enhanced yield and nitrogen use 13.561 Increased seed size, plant growth and grain yield 18-Sep-13 UK / China 16.613 Genome editing for increasing yield in oil crops 11-Jan-17 UK 17.625 Increased yield in a wide range of crops 11-.lul-17 China 19.657 Enhanced root architecture 07-Oct-19 UK 19.659 Increased seed size and protein content 09-Sep-19 China 30-Mar-20 20.663 Control of grain size and number China 27-Oct-21 20.670 China Increased nitrogen efficiency and increased crop yield 20.671 14-Dec-20 UK Stomatal density 20.672 Increased seed number in grain crops 13-Jan-21 China STRESS RESISTANCE AND YIELD 19.651 UK Enhanced photosynthesis and growth while preserving water status 02-Apr-19 20.665 Enhanced photosynthesis and growth while preserving water status 02-Mar-22 UK 23.700 24.710 Stress tolerant crops 25-Feb-25 IJK **CROP NUTRIENT USE** 12.546 26-Mar-13 Gene for enhanced yield and nitrogen use China 20.670 Increased nitrogen efficiency and increased crop yield 27-Oct-21 China **CROP COMPOSITION AND QUALITY** 10.508 Oilseed rape mutants with increased mono-unsaturated fatty acid content 02-Mar-11 UK High phytase wheat: novel wheat germplasm with seed phytase levels 5-8x the levels commonly seen 12.533 11-May-12 Denmark in wheat Novel Wheat Starch: mutant wheat lines with altered starch granule profile. Multiple high value 18.638 15-Oct-18 UK applications 22.696 Wheat and barley starch with reduced B-granule content 12-Sep-23 UK 22.698 Increased starch granule size, by simple mutation 17-Apr-23 UK

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TECH ID			
TECHTD	TECHNOLOGY DESCRIPTION	RELEASE DATE	SOURCE ORGANISATION
PEST / DISEASE RESISTANCE AND CROP PROTECTION TECHNOLOGY			
07.425 07.426	Late blight resistance genes from wild potato species	01-Mar-10	UK
21.684	A novel disease resistance mechanism	10-Jun-25	Denmark
21.689	Insect resistance	08-Dec-21	Canada
22.692	Novel, natural agent to control insects on plants	12-Oct-22	China
24.711	Breakthrough approach for broad plant pathogen resistance	25-Feb-25	China
PLANT	BREEDING TECHNOLOGY		
21.691	Enhanced plant regeneration	08-Jun-22	China
24.704	Hybrid Seed Breeding and Production	25-Jun-24	China
ENABL	ING TECHNOLOGY		
PROMOT	ERS & SELECTABLE MARKERS		
04.345	High expression monocot promoter	01-Jun-04	USA
SILENCIN	IG CONTRACTOR OF THE CONTRACTO	T	
21.689	Insect resistance	08-Dec-21	Canada
EXPRES	SION SYSTEMS		
07.439	Mutagenesis of CPMV expression system results in heterologous protein production of up to 30% of total soluble protein	07-Jan-08	UK
PLANT T	SSUE CULTURE		
21.678	Plant tissue culture	29-Nov-22	UK
21.691	Enhanced plant regeneration	08-Jun-22	China
ENVIRO	DNMENTAL		
21.690	Biological phosphorous clean-up and recycling	08-Jun-22	China
CROP I	PROTECTION / BIOSTIMULANTS		
NON-TEC	TECHNOLOGIES		
16.605	Plant activator protein	19-Apr-18	China
22.692	Novel, natural agent to control insects on plants	12-Oct-22	China
24.708	AOX inhibitors as plant protection agents	25-Jun-24	UK
24.710	A next-generation biostimulant	09-Sep-25	UK