SUMMARY: Plant-TEC List November 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.					
TECH ID	TECHNOLOGY DESCRIPTION	RELEASE DATE	SOURCE ORGANISATION		
CROP PERFORMANCE TECHNOLOGY					
DEVELO	PMENT AND YIELD				
07.436	Gene controlling plant seed and organ size, and plant biomass	07-Jan-08	UK		
12.546	Gene for enhanced yield and nitrogen use	26-Mar-13	UK / China		
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-Jul-17	China		
19.657	Enhanced root architecture	07-Oct-19	UK		
19.659	Increased seed size and protein content	09-Sep-19	China		
20.663	Control of grain size and number	30-Mar-20	China		
20.670	Increased nitrogen efficiency and increased crop yield	27-Oct-21	China		
20.671	Stomatal density	14-Dec-20	UK		
20.672	Increased seed number in grain crops	13-Jan-21	China		
STRESS	RESISTANCE AND YIELD				
19.651	Enhanced photosynthesis and growth while preserving water status	02-Apr-19	UK		
20.665 23.700	Enhanced photosynthesis and growth while preserving water status	02-Mar-22	UK		
24.710	Stress tolerant crops	25-Feb-25	UK		
25.714	Biostimulant Seed Coating for Enhanced Yield	25-Nov-25	China		
CROP NU	TRIENT USE				
12.546	Gene for enhanced yield and nitrogen use	26-Mar-13	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		
12.533	High phytase wheat: novel wheat germplasm with seed phytase levels 5-8x the levels commonly seen in wheat	11-May-12	Denmark		
18.638	Novel Wheat Starch: mutant wheat lines with altered starch granule profile. Multiple high value applications	15-Oct-18	UK		
		40.0	UK		
22.696	Wheat and barley starch with reduced B-granule content	12-Sep-23	UK		

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TECH ID	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	
SILENCII	NG			
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	ISSUE CULTURE	I		
21.678	Plant tissue culture	29-Nov-22	UK	
21.691	Enhanced plant regeneration	08-Jun-22	China	
ENVIR	ONMENTAL			
21.690	Biological phosphorous clean-up and recycling	08-Jun-22	China	
CROP	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	