

Trait specific germplasm introduced in major crop groups/crops since 2008

Cereals:

Crop/EC No./Country	Specific Traits	Distribution
Barley (<i>Hordeum vulgare</i>)		
EC631731, USA	Variety Lentah-superior yield & test weight, most widely used as green feed	IGFRI, Jhansi
EC631732, USA	Variety Clearwater-hull less, low phytate and high available (CV 335) phosphorus concentrations in the grain, superior feed quality	IGFRI, Jhansi
EC631946, USA	Variety Tetonia-high yielding, resistance to spot blotch & net blotch	DWR, Karnal
EC634221-27, USA	Lines resistance to Russian wheat aphid, each line has a different source of resistance in malting barley cultivar backgrounds	DWR, Karnal
EC657889, Canada	High yielding for both grain and biomass, good grain quality for malting, resistant to the spot form of net blotch, surface borne smuts and spot blotch	DWR, Karnal
EC657888, Canada	Six rowed, hulled, smooth-awned, spring feed barley, lodging resistance, higher plump seed percentage, good resistance to covered smut and false loose smut.	DWR, Karnal
EC670538, Canada	Variety Bushy, two-rowed, rough-awned, feed barley, well adapted to the brown, black and grey soil, excellent disease resistance combined with good grain yield and feed quality, good lodging resistance and early maturing, low fibre content, resistant to the surface borne smut, and moderately resistant to the spot form of net blotch.	DWR, Karnal
EC698842, USA	Cv Sidneya Russian wheat aphid resistant spring, two rowed feed barley	DWR, Karnal
EC698843, USA	Cv. Otis a spring barely well adapted to the high dry plains, is susceptible to RWA	DWR, Karnal
EC698889-698895, USA	Germplasm STARS 0637B to 0643B, source of resistance resistance to Russian wheat aphid (<i>Diuraphis noxia</i> , (Mordvilko). They are comparable to their recurrent parents in yield, test weight, plant height, and heading date in the absence of RWA and superior in grain yield to their recurrent parents in the presence of RWA.	DWR, Karnal
EC836449-836745, Lebanon	germplasm for yellow rust screening from	ICARDA, Delhi
EC804982- 988, UK	Wild species	GCD, NBPGR

Maize (<i>Zea mays</i>)		
EC633803, USA	Resistance to western corn rootworm	DMR, New Delhi
EC659915-659917, Nigeria	Lower levels of aflatoxin, good agronomic traits and resistance to important diseases in the lowlands, including southern corn leaf blight., southern corn rust and ear rot	DMR, New Delhi
EC803523-803540, Mexico	new CIMMYT lines (CMLs) adapted to tropical/subtropical maize production environments with traits such as resistance to common mid altitude foliar diseases <i>Maize Streak Virus</i> (MSV), Turicum leaf blight (TLB), Gray leaf spot (GLS), <i>Phaeosphaeria</i> leaf spot (PLS), ear rot and common rust (PS); spotted stem borer (<i>Chilopartellus</i>) and African stem borer (<i>Busseolafusca</i>) ; white grained, excellent combining ability under low nitrogen and drought conditions	DMR NBPGR
EC808940-808969, Switzerland	Core Collection	DMR NBPGR
Paddy (<i>Oryza sativa</i>)		
EC634219-624220, USA	Mutant germplasm lines having improved resistance to sheath blight, bacterial panicle blight & narrow brown leaf spot	DRR, Hyderabad
EC659913-659914, USA	Improved resistance to sheath blight , bacterial panicle blight, and narrow brown leaf spot	NBPGR Regional Station, Cuttack
EC637984 Philippines	Submergence tolerant variety	Annamalai University, Annamalaiagar
EC638162- 638165, Philippines	Tungro tolerant lines	Rice Research Station, Chinsurah
EC659921, Vietnam	Drought tolerant variety	NBPGR Regional Station, Cuttack
EC668585-668791 Philippines	Lowland Advanced Yield trials	CRRI, Cuttack
EC670423- 670445, Philippines	Brown Plant Hopper (BPH) resistant lines	Punjab Agricultural University, Ludhiana
EC678586-678634, Philippines	Salt tolerant lines	Central Soil Salinity Research Institute (CSSRI), Karnal
EC681702-682902, Philippines	Heat tolerant lines	PAU, Ludhiana
EC685262, Philippines	Long grained variety with low amylose content and gelatinization	Annamalai University, Chidambaram

EC686407-686430, Philippines	F2 generation breeding materials for tolerance to salinity and submergence	Central Rice Research Institute (CRRRI), Cuttack
EC688321, USA	A long -grain Indica Rice resistant to all major races of blast disease, including to newly reported races TM2 and IB33 and five other rice diseases, high yield Potential	National Bureau of Plant Genetic Resources, Cuttack
EC695984, Philippines	Lines for heat tolerance screening	Tamil Nadu Rice Research Institute, Thanjavur
EC699258, Philippines	Submergence tolerant lines	Birsa Agricultural University, Ranchi
EC714174-176, Philippines	Salinity and submergence tolerant lines	DRR, Hyderabad
EC715643- 716353, Philippines	Mapping Populations	SVBPUAT, Meerut
EC720903-720904, Philippines	Thermogenic Male Sterile lines	KAU, Thrissur
EC699098-699257, Philippines	Salinity tolerant lines	CRRRI, Cuttack
EC725224- 725249, Philippines	Drought tolerant pyramiding lines, salinity tolerant, and low input tolerant	TNAU, Coimbatore
EC725250- 725252, Philippines	Submergence tolerant line	TNAU, Coimbatore
EC733828 – 733846, EC736365-736471, Philippines	Salinity tolerant lines	CRRRI, Cuttack
EC733948 - 733954, Philippines	Heat tolerant	IRRI India Office
EC734714 - 734788 EC739648 -739657, Philippines	Submergence tolerant lines	CRRRI, Cuttack
EC758366- 758368, USA	Resistance to Sheath Blight and Blast diseases	NGRC, NBPGR
EC792106-792118, Philippines	Multiparent advanced generation intercross (MAGIC) wild parents	TNAU, Coimbatore
EC801659- 801729, Philippines	new sources of resistance to biotic stresses derived from wild species introgression lines	DRR, Hyderabad
EC803403-803440, Philippines	resistant to blast	DRR, Hyderabad
EC804017-804356, Philippines	breeding lines with high Zinc content	ICRISAT
EC807584 – 807816, Philippines	breeding lines for drought tolerance	ICRISAT
EC814672-814673, Nepal	drought tolerant varieties	IRRI, Hyderabad
EC837459-	High Zinc content	ICRISAT,

837762,Philippines		Patancheru
EC850436-851005, Philippines	Breeding lines for drought and salinity	ICRISAT, Patancheru
EC862444-862445, Bangladesh	High Zinc content	ICRISAT, Patancheru
EC846939-846941, Philippines	Wild species- <i>O. longistaminata</i> , <i>O.meyeriana</i> , <i>O. ridleyi</i>	GCD, NBPGR
Wheat (<i>Triticumaestivum</i>)		
EC633777, Canada	Adapted to drier regions, source of resistance to races of loose smut	DWR, Karnal, Haryana
EC633778-633784, ICARDA, Syria	PBW343 new version lines carrying genes resistant to Ug 99 and yellow rust	DWR, Karnal, Haryana
EC634055, USA	Resistance to wheat <i>Soil borne mosaic virus</i> and <i>Spindle streak mosaic virus</i>	DWR, Karnal, Haryana
EC631734, USA	Translocation line carrying a segment of chromosome 5, including softness genes <i>Pin a</i> & <i>Pin b</i>	DWR, Karnal, Haryana
EC631987-632002, USA	Isogenic hard wheat lines differing for the presence of high grain protein gene GPC-B1	DWR, Karnal, Haryana
EC632017, USA	Germplasm resistant to biotypes 1 & 2 of Russian wheat aphid, semi dwarf, early maturing	DWR, Karnal, Haryana
EC631967-631986, USA	Near isogenic hard spring lines differing in puroindoline alleles, controlling grain hardness, useful to study the basis for texture & quality differences in hard wheat	DWR, Karnal
EC631987-632002, USA	Isogenic lines differing for presence of high grain protein gene Gpc B 1. May serve as a source of increased grain protein for hard red, white spring wheat breeding program and provide material to investigate the effect of Gpc B1 in high protein background.	DWR, Karnal
EC638278, USA	Alien Disomic addition line with resistance to fusarium head blight	DWR, Karnal
EC638314, USA	Winter wheat , white grained, excellent bread baking quality, good pre-harvest sprouting tolerance	DWR, Karnal
EC638315, USA	Good disease resistance and excellent yield potential	DWR, Karnal
EC641860, USA	Var. NEO16432, superior grain yield performance, winter hardy, resistant to fusarium head blight, stem rust, moderately resistant to leaf rust, stripe result and Hessian fly	DWR, Karnal
EC665054, UK	Winter type	Bidhan Chandra Krishi Viswavidyalaya, Kolkata

EC664600, Argentina	Hard red winter wheat, excellent grain yield potential, resistance to leaf rust, conferred mainly by the Lr 47 gene, and good bread making quality	DWR, Karnal
EC671601, USA	Variety Kelse, a semi-dwarf cultivar with exceptionally high grain protein content (GPC), resistance to stripe rust	DWR, Karnal
EC671602, USA	Variety Whit, a Semi-dwarf cultivar, early maturing, high grain yield potential, waxy variety with superior end use quality properties. Resistant to local races of stripe rust, the Hessian fly and high temperature.	DWR, Karnal
EC673058, USA	Variety Cataldo, possessing Novel Hessian fly resistance gene conferred by H 25 gene, early maturing, excellent end use quality for cookie and Asian noodles, resistant to stripe rust and high temperature	DWR, Karnal
EC673059, USA	Variety Allturas, semi dwarf, excellent yield and milling quality, resistant to stripe rust	DWR, Karnal
EC675838-675841, Australia	Variety Excalibur, Krichauff, Berkut and RAC875 - Pre-harvest sprouting tolerant (PHS) white wheat genotypes	CCS Meerut University, Meerut
EC675842, USA	Variety USG 3555, a soft red winter wheat, high yielding, early heading, semi-dwarf, resistant to powdery mildew, stripe rust and stem rust	NBPGR Regional Station, Bhowali
EC675843, USA	Broadly adapted, high yielding, semi-dwarf, very good milling and pastry baking quality, resistant to powdery mildew, leaf rust and stripe rust	NBPGR Regional Station, Bhowali
EC675844, USA	Variety Shirley, a very high yield potential, good milling and pastry baking qualities, notably resistant to leaf rust, stem rust and powdery mildew	NBPGR Regional Station, Bhowali
EC675845, USA	Variety Jamestown, a short statured, early heading, semi-dwarf, resistant to the predominant insect and pests (hessian fly, stripe rust and fusarium head blight), lower sucrose retention capacity	NBPGR Regional Station, Bhowali
EC675846, USA	High yield potential, good winter hardiness, resistant to powdery mildew and good pastry baking quality	NBPGR Regional Station, Bhowali
EC676671, USA	Variety Camelot, a hard red winter wheat, superior grain yield performance, tolerant to Fusarium Head Blight (scab), late maturing, well adapted to most rainfed wheat production, disease resistance to stem, leaf and stripe rust, superior end-use quality	DWR, Karnal
EC678585, USA	Variety SQ1 a pre-harvest sprouting tolerant white wheat genotype: SQ1 (PHST)	CCS Meerut University,

		Meerut
EC686203-04, USA	Genetic stocks to improve grain protein content	CCS Haryana Agricultural University, Hissar
EC692009, Australia EC693905, Canada	Tolerant to Pre Harvest Sprouting	CCS Meerut University, Meerut
EC689087-689118, Israel	Recombinant inbred and double haploids	National Agri-Food Biotechnology Institute, Mohali
EC693905, Canada	PHS tolerant white wheat	CCSMU, Meerut
EC721736, Nepal	Variety Vijay (BL 3063) having good resistance against variants of Ug99, and impressive agronomic performance under both normal and late sown conditions in the Terai region of Nepal, is believed to have terminal heat tolerance. Bold seeded amber colored grains, high protein content (12.5%), and good quality for baking industries	GED, NBPGR IARI, New Delhi
EC699417-418, USA	Colored germplasm	National Agri. - Food Biotechnology Institute, Mohali
EC721309-721684, UK	Core Collection	PAU, Ludhiana DWR, Karnal
EC731579 -731636, USA	Nullisomic/ tetrasomic/ monosomic Chinese spring wheat lines	DWR, Karnal GCD, NBPGR
EC732856, USA	Winter variety Anton with enhanced end - use quality and low levels of polyphenol oxidase (PPO)	NBPGR RS, Bhowali
EC736143-736162, USA	Substitution/deletion/aneuploid lines	GCD, NBPGR
EC755279, USA	Wheat genetic stock with ph 1b mutant allele into an adapted Kansas winter wheat, GS -170 , PI 663870, which will accelerate the evaluation and utilization of wheat alien recombinants in cultivar improvement	NGRC, NBPGR
EC758755, USA	Alien disomic substitution 1E(1A) line DGE-2 in wheat (Reg. No. GS-171, PI 663216), a unique chromosomal constitution and a unique allele Glu-E1b, DGE-2 may be useful in basic research	DWR, Karnal GCD, NBPGR
EC758756, USA	Good yield potential, grain protein levels similar to other hard red spring wheat cultivars and acceptable milling and baking characteristics	DWR, Karnal GCD, NBPGR
EC759227, Australia	Drought tolerant higher yielding and early	GCD, NBPGR

	maturing variety' Waagan'	
EC762316-762317, USA	Registered lines provide spring wheat and winter wheat breeding programs with access to genes from elite cultivars possessing the alternate growth habit	DWR, Karnal GCD, NBPGR
EC753236, Canada	Registered cultivar 'Fieldstar'-combination of high yield, resistance to wheat midge, leaf rust and stem rust	DWR, Karnal GCD, NBPGR
EC762391-762695, Mexico	Spot blotch mapping population	BHU, Varanasi
EC787007-787013, UK	Amphidiploid lines in durum wheat	DWR, Karnal
EC786580, USA	Alien disomic substitution 1E (1B) line in durum wheat	DWR, Karnal
EC787007- 787015, UK	Aneuploid lines with durum wheat homologues replaced D-genome chromosomes, of hexaploid wheat. Can be used for cytogenetic studies of gene linkages, and chromosomal translocations.	DWR, Karnal
EC799617- 799754, CIMMYT, Mexico	Genetic stocks for analysis of pathotypes in rusts, powdery mildew pathogen, stem rust, brown/leaf rust, yellow rust genes from different wild species wheat and improved varieties	IARI RS, Wellington
EC804989- 804990, UK	wild species	GCD, NBPGR
EC831784-832948, CIMMYT, Mexico	Mexican core set	DGR, NBPGR
EC832949-833193, CIMMYT, Mexico	Iranian core set	DGR, NBPGR
EC836759, Mexico	heat tolerant line	CIMMYT, Delhi
EC841152-841165 Mexico	Near –Isogenic lines carrying genes Lr34, Lr46, Lr67, Lr68.	IARI RS, Indore
EC841516, USA	Large kernel size and superior yielding ability, resistance to diseases, prevalent in Oklahoma and surroundings states, favourable dough strength, exceptional recovery of isolated gluten fractions from compressive deformation.	GED, NBPGR
EC870177-870247, USA	Source for improvement of heat tolerance	DGR, NBPGR

Millets:

Crop/EC No., Country	Specific Traits	Distribution
Pearlmillet (<i>Pennisetum glaucum</i>)		
EC802313, USA	Genetic male sterile (ms3) stock NM-10H,	AICPMIP Jodhpur

Sorghum (<i>Sorghum bicolor</i>)		
EC750258-750459, Japan	Core set	TNAU, Coimbatore GCD

Oilseeds:

Crop/EC No., Country	Specific Traits	Distribution
Castor (<i>Ricinus communis</i>)		
EC736481, USA	Low toxin ricin variety	IIR, Hyderabad
EC768483, USA	A low toxin ricin variety	IIR, Hyderabad
Groundnut (<i>Arachis hypogaea</i>)		
EC675806, USA	To be used as a field marker to separate experiments, for confirmation of correct planting order, or to fill plots for which seed was insufficient. TaAG-8 has semi erect lateral branches, a tan testa and maturity is variable	IIR, Hyderabad
Rapeseed mustard (<i>Brassica napus</i>)		
EC763819- EC764472, UK	Resistant and susceptible lines for wheat rust	DRMR, Bharatpur
Mustard (<i>Brassica juncea</i>)		
EC764472- EC766024, UK	Resistant and susceptible lines for wheat rust	DRMR, Bharatpur
Oil palm (<i>Elaeis guineensis</i>)		
EC869395-869414, Malaysia	Short rachis with small crown. High carotene content, drought tolerant. Considerably low level of Free Fatty Acid (FFA)	IOPR, Paedavegi
Safflower (<i>Carthamus tinctorius</i>)		
EC675847-48, USA	Cytoplasmic male sterile (CMS) lines	Nimbkar Agricultural Research Institute (NARI), Phaltan, Maharashtra
EC755659 to EC755688, Mexico	Breeding lines with high oleic acid content	IIR, Hyderabad
Soybean (<i>Glycine max</i>)		
EC638228, USA	Excellent yield potential. Resistant to soybean mosaic virus, stem canker, bacterial pustule and frogeye leaf spot	NRC Soybean, Indore
EC638229, USA	Resistant to <i>Soybean mosaic virus</i> and peanut root knot nematode, frogeye leaf spot and bacterial pustule	NRC Soybean, Indore
EC644409, USA	Small seeded, 100 seed weight is 7.3g, resistant to shattering, <i>Soybean mosaic virus</i> , frog eye leaf spot and bacterial pustule	NRC Soybean, Indore
EC644410,	Variety N 8001 has purple flowers, gray	NRC Soybean,

USA	pubescence, tan pod wall color at maturity, and shiny yellow seeds with imperfect black hila. Resistant to <i>Soybean mosaic virus</i> and stem canker	Indore
EC656640, USA	High yield potential and broad resistance to soybean cyst nematode, southern root knot nematode and reniform nematode.	NRC Soybean, Indore
EC656641, USA	High yield potential, broad resistance to soybean cyst nematode southern root knot nematode and sudden death syndrome	NRC Soybean, Indore
EC656642, USA	High yield potential, higher seed protein and resistance to root knot nematode.	NRC Soybean, Indore
EC656643, USA	High yield potential and disease resistant type	NRC Soybean, Indore
EC771144- 771240/ Taiwan	Core set	IIHR, Bangalore
Sunflower (<i>Helianthus annuus</i>)		
EC634078-80, USA	Source of resistance to races of loose smut	IIOR, Hyderabad
EC676027- 133, USA	Recombinant inbred lines (RILs)WA8649090/Precoz)	CSK HPKV, Himachal Pradesh
EC699721,USA	Rust resistant line	IIOR, Hyderabad
EC699730- 31, 738, 740, 742, 762, 770-71 EC699816, USA	High oil content	IIOR, Hyderabad
EC699748-50, 753-758, USA	Downy mildew resistant	IIOR, Hyderabad
EC699735-36, 756, USA	High oleic acid content	IIOR, Hyderabad
EC699765,67,69, USA	CMS lines	IIOR, Hyderabad
EC699746-47,USA	Orobanche resistant	IIOR, Hyderabad
EC699732,760-761 EC699764, 774, USA	Dwarf types	IIOR, Hyderabad
EC816178, USA	male fertility restorer and resistant to sunflower rust	IIOR, Hyderabad
EC838641,USA	Variety HA 342 High oleic acid content (85.0%)	IIOR, Hyderabad
EC838643, USA	Restorer line with high oleic acid content (86.3%), resistant to race 2 of downy mildew.	IIOR, Hyderabad
EC838654, USA	CM601, Resistant to rust and Verticillium wilt	IIOR, Hyderabad
EC838794, USA	HA 413 with high linoleic acid content	IIOR, Hyderabad

Grain legumes:

Crop/EC No., Country	Specific Traits	Distribution
Cowpea (<i>Vigna unguiculata</i>)		
EC738076- EC738278, Italy	Core Collection	IIPR, Kanpur
French bean (<i>Phaseolus vulgaris</i>)		
EC771628, USA	High level of resistance to common bacterial blight	IIPR, Kanpur
EC769259-276, Taiwan	Core Set	IIHR, Bangalore
Lentil (<i>Lens culinaris</i>)		
EC631332, Turkey	High yielding and high level of winter hardiness	IIPR, Kanpur
EC666214-952, 5016- 5052, Syria	Early maturing lines	International Crop Research Institute for Semi-arid Tropics, Patancheru
EC723645-725372, Nigeria	Core Collection	IIPR, Kanpur

Vegetable crops:

Crop/EC No., Country	Specific Traits	Distribution
Bottle gourd (<i>Lagenaria siceraria</i>)		
EC800995- EC800998, USA	Resistant to powdery mildew, fusarium wilt and anthracnose	IARI, New Delhi
Chilli (<i>Capsicum annuum</i>)		
EC611331-611364, Taiwan	Tolerant to aphids	IIHR, Bangalore ,
EC612322, Vietnam	Very hot, 55-60 days maturity, extremely prolific, tolerant to <i>Phytophthora</i> , TMV & bacterial wilt	IIVR, Varanasi,
EC628891-920 EC631683-687, Taiwan	Lines resistant to <i>Chili veinal mottled virus</i> , <i>Poty virus</i> Y and bacterial wilt	BCKV, Kalyani , WB
EC637341-42, Taiwan	Male sterile lines	College of Horticulture, KAU
EC668798- EC668816 EC692278- EC692281, Taiwan	Maintainers and restorer lines	Bidhan Chandra Krishi Vishwavidyalaya (BCKV), Kalyani, WB
EC771549-771554, Taiwan	CMS lines	IIHR, Bangalore
EC771555, Taiwan	Virus resistant line	IIHR, Bangalore
EC771558-771560,	Phytophthora resistant lines	IIHR, Bangalore

Taiwan		
EC769368-769448, Taiwan	Core set	IIHR, Bangalore
Lablab bean (<i>Lablab purpureus</i>)		
EC769277-769311, Taiwan	Core set	IIHR, Bangalore
Leek (<i>Allium ampeloprasum</i>)		
EC675804- 805, Germany	Great Headed Garlic Group	Directorate of Onion and Garlic Research, Pune, Maharashtra
Lettuce (<i>Lactuca sativa</i>)		
EC612126, Vietnam	Variety Minetto, crisp headed, iceberg type medium small size, black seeded variety, resistant to heat and humidity, tolerant to tip burn	IARI, New Delhi; IIVR, Varanasi, UP
EC612127, Vietnam	Fast fall, mid early variety, black seeded, loose leaf type	IARI, New Delhi; IIVR, Varanasi, UP
EC612128, Vietnam	Butter head type major variety for heavy lettuce production. Recommended for winter and autumn production in temperate areas and tolerant to <i>Bremia</i>	IARI, New Delhi; IIVR, Varanasi, UP
Lima bean (<i>Phaseolus lunatus</i>)		
EC769259- 769276, AVRDC, Taiwan	Core set	IIHR, Bangalore
Musk melon (<i>Cucumis melo</i>)		
EC612132, Vietnam	Arkanga hybrid melon variety, fruits have a Netted skin, light green crispy flesh, strong tolerance to fusarium blight strains 0 & 1	IARI, New Delhi; IIVR, Varanasi
EC612133, Vietnam	Very vigorous hybrid variety Alien tolerant to both powdery and downy mildew. Prolific, medium early, can be harvested within 40-45 days weighing about 1.2-1.3 kg/fruit. Green flesh, juicy and sweet	IARI, New Delhi; IIVR, Varanasi
EC612134, Vietnam	Yellow skinned with oblong shape and cream colored flesh, weight approximately 2.5 kg/fruit	IARI, New Delhi; IIVR, Varanasi
EC802405- EC802415, USA	resistant to powdery mildew, fusarium wilt, anthracnose	IARI, New Delhi
Onion (<i>Allium sativum</i>)		
EC794410-794416, Taiwan	High yielding, early maturing and good shelf life	IIVR, Varanasi
Snap melon (<i>Cucumis melo momordica</i>)		
EC766817 to 766833, USA	Fusarium wilt resistant and Gummy stem blight resistant lines	IIHR, Bangalore
Tomato (<i>Lycopersicon esculentum</i> / <i>Solanum lycopersicum</i>)		
EC631955-963,	Resistant to root knot nematode	PAU, Ludhiana

Taiwan		
EC632003-21, Taiwan	Lines tolerant to bacterial wilt, <i>Tomato mosaic virus</i> , fusarium wilt and gray leaf spot	College of Agriculture, Dharwad , Karnataka
EC635523-27, Taiwan	Resistance to <i>Tomato leaf curl virus</i>	College of Horticulture, KAU, Kerala
EC635528-33, Taiwan	Resistant to Bacterial wilt	College of Horticulture , KAU, Kerala
EC611883-891, Taiwan	Heat tolerant lines	TNAU, Periyakulam , TN
EC664585-88, Canada	Early maturing lines	Defence Agriculture Research Laboratory-DRDO, Pithoragarh
EC664589-599, Canada	Cold resistant lines	Defence Agriculture Research Laboratory-DRDO, Pithoragarh
EC654694-99, Taiwan	Heat tolerant tomato	PAU, Ludhiana
EC654678-86, Taiwan	Lines resistant to bacterial wilt, fusarium wilt and <i>Tomato mosaic virus</i>	PAU, Ludhiana
EC677032-677130, Taiwan	Advance generation lines for drought and heat trial	International Crop Research Institute for Semi- Arid Tropics, Patancheru
EC687094- EC687098, Taiwan	Resistant to <i>Tomato yellow leaf curl virus</i> , shape oblong, size medium to medium large, determinate types	IIHR, Bangalore
EC687099- EC687103, Taiwan	Semi determinate, red coloured fruit, oblong fruit shape, resistant to Ty2-TMV, F1	IIHR, Bangalore
EC687104 EC687105, Taiwan	Indeterminate, red coloured fruit, oblong fruit shape, resistant to Ty2,TMV, F1	IIHR, Bangalore
EC687106, EC687107, Taiwan	Semi determinate, orange coloured fruit, resistant to TMV, BW, F1	IIHR, Bangalore
EC687108, Taiwan	Indeterminate orange coloured fruit, oblong fruit shape, resistant to TMV, BW, F1	IIHR, Bangalore
EC798219- EC798220, Taiwan	lines resistant to <i>Tomato yellow leaf curl virus</i> , bacterial wilt and fusarium wilt. oblong fruit and joint less pedicel	CARI, A&N
EC802554-802562, Taiwan	early maturing, heat tolerant	Uttarakhand University of Horticulture & Forestry, UK
Water melon (<i>Citrullus lanatus</i>)		
EC800999-	Resistant to bud necrosis virus	IARI, New Delhi

EC801022/ USA		
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Fruit crops:

Crop/EC No., Country	Specific Traits	Distribution
Apple (<i>Malus domestica/ Malus sieversii</i>)		
EC612824-612825, USA	Resistant to fire blight	NBPGR, RS Shimla, HP
EC860918-860923, USA	Improved varieties Succary, Eechnoff, Dorsett golden, early to mid-early types, high yielding	Dr YSPUHF, Solan
EC860917, USA	Variety Anna resistant to apple scab, powdery mildew, cedar apple rust and fire blight	Dr YSPUHF, Solan
EC612822-23, USA	Resistant to apple scab	NBPGR, RS Shimla, HP
Avocado (<i>Perseaamericana</i>)		
EC632072, USA	Variety Pollock with low oil, early type, very large fruits weighing 750gms	CHES, Chettalli
EC632073, USA	Variety Pinkerton with long pear shaped fruits, excellent peeling characteristics	CHES, Chettalli
Grapes (<i>Vitisvinifera</i>)		
EC840350-840362, USA	Varieties Cayuga white, Landott 4511, Othello, Joyous, Tetra, Mars-resistant to cracking, downy mildew, drought, insect and black rot	NRC Grapes, Pune
Papaya (<i>Vasconcellea spp.</i>)		
EC815412, EC816070- 71, Australia	Wild germplasm having <i>Papaya ringspot virus</i> resistance gene	Indian Agricultural Research Institute , Pune
Pomegranate (<i>Punicagranatum</i>)		
EC844202-844207, USA	Ornamental varieties double red white, double red , orange and hakubatan	IIHR, Bengaluru

Tuber crop:

Crop/EC No., Country	Specific Traits	Distribution
Potato (<i>Solanum tuberosum</i>)		
EC670754, EC670756, EC670759. EC670760.	Medium to late maturing, high yielding, good frying chip color	CPRI, Shimla

USA		
EC670757, USA	Late vine maturity, medium height, semi-erect, bruise resistance, low sugars	CPRI, Shimla
EC670758, USA	Medium maturity, olive green foliage, large leaves, good vine vigor, spreading habit, no hollow heart, resistance to late blight and Pythium leak	CPRI, Shimla
EC670761, EC670762, USA	Medium vine maturity, open canopy, resistant to early and late blight, good for processing	CPRI, Shimla
EC670763, USA	Mid-season maturity, medium to tall, semi erect plant type, with good potential for early yield, resistant to Pythium leak	CPRI, Shimla
EC670764, USA	Open canopy, medium height, spreading habit, excellent chip color, resistant to tuber and foliar late blight	CPRI, Shimla
EC806225-EC806238, Germany	Germplasm with high dry matter and resistance to late blight	CPRI, Shimla

New plant species

African potato (<i>Hypoxis hemerocallidea</i>)		
EC717953, Swaziland	A medicinal plant native to South Africa, efficacious in treatment of benign prostatic hyperplasia, commonly known as African potato or African star grass	Jamia Hamdard, New Delhi PQD, NBPGR
Siraitia (<i>Siraitia grosvenorii</i>)		
EC697455, USA	Best known for its fruit, fruit extract is nearly 300 times sweeter than sugar and has been used as a natural sweetener in China for nearly a millennium, also used in traditional Chinese medicine from USA	NBPGR, Regional Station, Shimla and Bhowali