1. Potato cultivars and lines studied by AFLP analysis

Accession number	Cultivar/Line	Ripening (year of entry to the State Register)	Tuber skin/flesh color	Golden potato o rostochiensis	cyst nematode; Globodera		Potato Virus Y; PVY	
				resistant/susceptible	genes of resistance (by markers) H1, Gro1-4, Grp1 [24, 25, 28]	Late blight; Phytophthora	resistant/susceptible	genes of resistance (by markers): Ryadg; R Rychc [24, 26-28]
	Solanum stoloniferum W 4x (Mexico)	Allotetraploid wild species, sourc of a number of genes valuable fo breeding (CGN 17606, Centre fo Genetic Resources,	r	Resistant*	Grp1 [24, 23, 26]	Resistant *	Resistant*	Nyene [24, 20-26]
	Avrora ¹	the Netherlands) Mid-season (2006)	Red/Creamy	Resistant	H1	Moderately susceptible for haulm and tubers	No data	Not found
	Antonina ^{4, 5}	Early (2005)	Yellow/LightYellow	Susceptible	***	Moderately susceptible for haulm and tubers	No data	N C
	Arlekin ²⁰ Babushka ^{4, 20}	Mid-early Mid-early (2018)	Yellow/White Red/LightYellow	No data Susceptible	H1 H1	No data Moderately susceptible for haulm and susceptible for tubers	No data Resistant	Not found Not found
	Bravo ^{14, 15}	Mid-early (2015)	Red/LightYellow	Resistant	H1	Medium resistant	Resistant	Not found
	Bylina Sibiri ²¹	Mid-season (2018)	Light beige/White	Susceptible		Moderately susceptible for haulm and tubers	No data	
	Vasilek ⁴ Velikan ⁴	Mid-early (2014) Mid-season (2013)	Blue-violet/Creamy Light beige/Creamy	Susceptible Susceptible		Relatively resistant for haulm and tubers Relatively resistant for haulm and tubers	Medium resistant Relatively resistant	
	Virazh ¹⁹	Mid-early (2018)	Yellow/LightYellow	Resistant	H1	Susceptible for haulm and moderately susceptible for tubers	Medium resistant	Not found
	Vympel ^{4, 13} Gala ⁹	Mid-season (2016) Mid-early (2008	Yellow/LightYellow Yellow/DarkYellow	Resistant Resistant	H1	Moderately susceptible No data	No data No data	Not found
	Golubizna ⁴ , 13	Mid-season (1993)	Light beige/Creamy	No data		Moderately susceptible for haulm and tubers	No data	Ryadg (highly resistant)
	Gornyak ¹⁵	Mid-early (2015)	Yellow/LightYellow	Susceptible		Medium resistant	Resistant	, ,
	Gulliver ^{4, 13} Gusar ²⁴	Early ripe (2018) Mid-season (2017)	Light beige/Creamy Yellow/LightYellow	Resistant Resistant		Moderately susceptible for haulm and susceptible for tubers Moderately susceptible for haulm and tubers	Medium resistant Resistant	Rysto
	Elizaveta ¹ , ²	Mid-early (1996)	Light beige/White	No data		Moderately susceptible, but in the years of epiphytoties it is strongly affected, tubers weakly	No data	1930
	Zhigulevskii ⁴ , 11 Zhkovskii rannii ⁴	Mid-season (2006) Very early (1993)	Yellow/LightYellow Pink/White	Susceptible Resistant	H1	Susceptible for haulm and moderately susceptible for tubers Susceptible for haulm and tubers	No data No data	Not found, highly resistant Not found
	Zlatka ²²	Mid-season (2017)	Yellow/LightYellow	Susceptible	П	Moderately susceptible for haulm and moderately susceptible for tubers	Resistant	Not found
	Il'inskii ⁴	Mid-early (1999)	Red/White	Susceptible		Susceptible	No data	Rysto
	Impala ^{10, 14} Irbitskii ¹⁵	Early ripe (1995) Mid-season (2012)	Yellow/LightYellow Red/LightYellow	Resistant Resistant	H1 H1	Susceptible Medium resistant	Weakly affected Resistant	Not found
	Kemerovchanin ⁵	Mid-early (2013)	Yellow/Yellow	Resistant	H1	Relatively resistant	No data	Not found
	Kolobok ⁴	Mid-season (2005)	Yellow/Yellow	Susceptible		Moderately susceptible for haulm and susceptible for tubers	No data	Rysto (highly resistant)
	Kortni ^{4, 17} Krasavchik ^{4, 14}	Mid-early (2016) Mid-early (2009)	Yellow/LightYellow Red/Creamy	Resistant Susceptible	H1	Moderately susceptible for haulm and tubers Resistant for tubers and medium resistant for haulm	Resistant Resistant	Not found, highly resista
	Krasavenik ⁴ , ¹⁴ Krepysh ⁴	Early (2005)	Yellow/Creamy	Resistant	H1	Moderately susceptible for haulm and tubers	No data	Not found
	Kuznechanka ⁵	Mid-early (2009)	Red/Creamy	Susceptible		No data	No data	Not found, highly resista
	Lady Clair ⁷ Lina ²²	Very early до раннего (2005) Mid-early (1998)	Yellow/LightYellow Yellow/White	Resistant Susceptible		Susceptible for haulm and moderately susceptible for tubers Resistant for haulm and tubers	No data No data	
	Lomonosovskii ²	Early ripe (2011)	Light beige/LightYellow	Susceptible		Moderately susceptible	Resistant	
	Lyubava ^{4, 5}	Early ripe (2003)	Red/White	Susceptible	77.1	Susceptible for haulm and moderately resistant for tubers	No data	Not found, highly resista
	Lyuks ^{14, 15} Matushka ^{4, 20}	Early ripe (2016) Early ripe (2013)	Red/Yellow Red/Creamy	Resistant Susceptible	H1	Moderately susceptible for haulm and susceptible for tubers Resistant	Resistant Resistant	Not found Not found
	Meteor ⁴	Very early (2013)	Yellow/LightYellow	Resistant	H1	Relatively resistant for leaves and highly resistant for tubers	Medium resistant	Ry_{sto} , Ry_{chc} (highly resist
	Nakra ^{4,5}	Mid-season (2000)	Red/LightYellow	Susceptible		Moderately susceptible for haulm and tubers	No data	Rysto (highly resistant)
	Nevskii ² Newton ⁶	Mid-early (1982) Early ripe (2011)	Light beige/White Light beige/Yellow	No data Resistant		Moderately susceptible for haulm and tubers Resistant	No data No data	
	Pamyati Rogacheva ^{4, 5}	Mid-early (2005)	Yellow/LightYellow	Weakly affected		Moderately susceptible for haulm and moderately resistant for tubers	No data	
	Reggi ¹⁸	Early ripe (2016)	Yellow/LightYellow	Susceptible		Moderately susceptible for haulm and tubers	Resistant	N -4 C 4
	Red Scarlett ⁸ Russkij suvenir ⁴ , ²⁰	Early ripe (2000) Mid-early (2005)	Red/Yellow Yellow/Creamy	Resistant Susceptible		Susceptible for haulm and moderately susceptible for tubers Resistant for haulm and moderately resistant for tubers	No data No data	Not found <i>Rychc</i>
	Samba ⁴ , 18	Mid-early (2019)	Yellow/LightYellow	Susceptible	H1, Gro1-4	Susceptible for haulm and moderately susceptible for tubers	Resistant	Not found
	Sarovskii ^{4, 5} Saturna ¹⁰	Early ripe (2014)	Red/Yellow	Resistant	H1	Moderately susceptible	Resistant	Not found
	Safo ²²	Mid late (2005) Mid-early (2009)	Yellow/LightYellow Light beige/Creamy	Resistant Resistant		Moderately susceptible for haulm and moderately resistant for tubers No data	No data Resistant	
	Solnechnyi ^{4, 5}	Mid-season (2006)	Yellow/ Yellow	Weakly affected		No data	No data	
	Start ¹⁶ Sudarynya ²	Mid-season Mid-early (2009)	Yellow/White Yellow/LightYellow	No data Resistant	H1 H1, Gro1-4	Resistant ** Resistant in field conditions***	Resistant ** Not affected by severe viral infection ***	Not found <i>Rysto</i>
	Tanai ⁵	Mid-early (2009)	Yellow/ Yellow	Resistant	H1, Gr01-4	Medium resistant	Medium resistant	Rysto
	Tango ¹⁸	Late ripening	Red/Yellow	No data		Resistant	No data	Not found
	Tuleevskii ^{4, 5} Udacha ⁴	Mid-season (2006) Early ripe (1994)	Yellow/ Yellow Light beige/White	Susceptible No data		Moderately resistant for haulm and moderately susceptible for tubers Moderately susceptible for haulm and moderately resistant for tubers	No data No data	
	Favorit ⁴ , 12	Mid-season (2014)	Red/Creamy	Resistant		Relatively resistant	Relatively resistant	Not found
	Fioletovii ⁴	Mid late (2014)	Blue-violet/Blue-violet	Susceptible		Relatively resistant for leaves and tubers	Relatively resistant	Not found
	Fritella ^{4, 13} Charodej ^{2, 3}	Mid-season (2016) Mid-early (2000)	Light beige/Creamy Yellow/White	Susceptible Susceptible	Grp 1	Moderately susceptible for haulm and tubers Moderately resistant	No data No data	Ryadg
	Charoit ^{2, 24}	Very early (2014)	Yellow/LightYellow	Susceptible	Gip1	Medium resistant	Medium resistant	
	Yugana ^{4, 5}	Mid-season (2011)	Yellow/LightYellow	Susceptible		Resistant	No data	
	Yuna ²² 21/8516 ²	Early ripe (2014) Mid-early	Light beige/Yellow No data	Resistant No data		No data No data	Resistant No data	
	25/861 ²	Mid-early	No data	No data		No data	No data	
	3-43-2 ¹⁸	No data	No data	No data		No data	No data	
	C-112-03 ²³ 3-43-6 ¹⁸	No data No data	No data No data	No data No data		No data No data	No data No data	
d (or g ding to ording cording ators o	genetic) type of resistance is a o R. Machido-Hirano, 2015 to FRC All-Russian Resear	meant rather than the field (horizor [34]. ch Institute of Agricultural Econom rch Institute of Agriculture "Belogo	ntal or non-specific) type. For so			F, 2020; http://reestr.gossortrf.ru/reestr/culture/159.html). The type of resistance to pat I nematode are given according to other sources (24-28).	hogens is not indicated in the State Register. Pro	ssumably, in the case of late
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