

Analysis of variability and phylogeny in pisum (*Pisum spp.*) using digital phenotyping and morphological traits

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Supplementary Table 1. Common name, classification and source of 92 accessions studied

| <i>P. fulvum</i> | | <i>P. elatius</i> | | <i>P. sativum</i> subsp. <i>jomardii</i> | |
|---|--------------|-------------------|---------------------|--|---------------------|
| P. fulvum | JI 224* | Vir2524E27 | USDA 15008 | JIC 250 | JIC 250 |
| JI 1006 | JI 1006 | Vir3115 | USDA 639973 | <i>P. abyssinicum</i> | |
| <i>P. sativum</i> subsp. <i>transcaucasicum</i> | | Vir2521 | USDA 15007 | B54757 | USDA 15041 |
| B1448 | USDA 639982+ | CE-1 | JI 2629 | B808 | USDA 639983 |
| Virk2376 | USDA 639971 | | | B1897 | USDA 639986 |
| <i>P. sativum</i> subsp. <i>Sativum</i> | | | | | |
| Aa38 | USDA 269862 | Explorer | commercial cultivar | Spring Pea | commercial cultivar |
| Acacia | JI 3502 | Extra Rapid | JI 16 | Sprut | commercial cultivar |
| Afila | JI 3509 | Facón-Cobri | commercial cultivar | Thirty days | commercial cultivar |
| Alaska WR | USDA 12620 | Frisson | JI 2453 | Turf | commercial cultivar |

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|--------------------------|---------------------|-------------------|---------------------|------------------|---------------------|
| Amarilla | commercial cultivar | Hoheinheimer PF | USDA180693 | Viper | commercial cultivar |
| Aparecida | commercial cultivar | Ilca5073 | USDA 505109 | Winter Hardy | JI 808 |
| Arveja Blanca de Sogamso | JI1054 | Ilca5075 | USDA 505111 | Wonder marrowfat | USDA206868 |
| Arvejas Amarillas | USDA 109865 | Ilca5115 | USDA 505144 | Zavalla1 | breeding line |
| Arveja Verde | USDA 109866 | Improved Campbell | JI 2013 | Zavalla2 | breeding line |
| B22718 | USDA 343987 | Inca | commercial cultivar | Zavalla5 | breeding line |
| B338[22] | USDA 113368 | King Tut PurpPod | USDA 635206 | Zavalla9 | breeding line |
| B4476 | USDA 119794 | Marina | commercial cultivar | Zavalla10 | breeding line |
| B826a lisa | USDA 3674 | Mattar | USDA 116843 | Zavalla11 | breeding line |
| B826a moteada | USDA 3674 | Mattar color | USDA 116843 | Zavalla14 | breeding line |
| CanadáA | commercial cultivar | Miranda | USDA 600943 | Zavalla15 | breeding line |
| CanadáB | commercial cultivar | Moshong | USDA 116944 | Zavalla16 | breeding line |
| Chinese Purple | USDA 137118 | NGB | USDA 101017 | Zavalla17 | breeding line |
| Cobri | JI 411 | NN16 | commercial cultivar | Zavalla18 | breeding line |
| Cometodo | commercial cultivar | Axiphium | JI 2581 | Zavalla19 | breeding line |
| Cuarentinas | USDA 162557 | Pai Wan Tou | JI 1922 | Zavalla20 | breeding line |
| DDR11 | commercial cultivar | Patani | USDA 123246 | Zavalla21 | breeding line |
| DDR14 | commercial cultivar | Patani color | USDA 123246 | Zavalla22 | breeding line |

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|-------------------|---------------------|--------------------------|---------------------|-----------|---------------|
| DMR7 | commercial cultivar | Piscello Piccolo Provenz | commercial cultivar | Zavalla23 | breeding line |
| Early thirty days | JI 466 | Pleven2 | USDA 12723 | Zavalla4 | breeding line |
| EI | commercial cultivar | Rois des Conserves | JI 350 | Zavalla24 | breeding line |
| Erick2 | commercial cultivar | Romack | USDA 613277 | Zavalla26 | breeding line |
| Ervilha T Flor R | USDA 117998 | Shandil | USDA 121976 | | |

*JI: John Innes Centre, Norwich, UK. <http://www.jic.ac.uk/GERMPLAS/pisum>

+USDA: Plant Germplasm Introduction and Testing, USA. <http://www.ars-grin.gov>