

## References of *Cicer L.*

Genus ID : A-140.084

1. Ohri D, Pal M. 1991. The origin of chickpea (*Cicer arietinum* L.): karyotype and nuclear DNA amount. *Heredity*. 66. 367 - 372.
2. Ruperao P, Chan CKK, Azam S, Karafiatova M, Hayashi S, Cizkova J, Saxena RK, Simkova H, Song C, Vrana J, Chitkineni A, Visendi P, Gaur PM, Millan T, Singh KB, Taran B, Wang J, Batley J, Dolezel J, Varshney RK, Edwards D. 2014. A chromosomal genomics approach to assess and validate the desi and kabuli draft chickpea genome assemblies. *Plant Biotechnology Journal* . 12. 778 - 786 .
3. Bennett MD, Smith JB. 1976. Nuclear DNA Amounts in Angiosperms. *Philosophical Transactions of The Royal Society B. Biological Sciences* . 274. 227 - 274.
4. Galasso I, Pignone D, Frediani M, Maggiani M, Cremonini R. 1996. Chromatin characterization by banding techniques, in situ hybridization, and nuclear DNA content in *Cicer L.* (Leguminosae). *Genome* . 39. 258 - 265.
5. Vlacilova D, Ohri D, Vrana J, Cihalikova J, Kubalakova M, Kahl G, Dolezel J . 2002. Development of flow cytogenetics and physical genome mapping in chickpea (*Cicer arietinum* L.). *Chromosome Research*. 10. 695 - 706.
6. Ahmad F, Hymowitz T. 1993. The fine structure of chickpea (*Cicer arietinum* L.) chromosomes as revealed by pachytene analysis. *Theoretical and Applied Genetics* . 86. 637 - 641.
8. Dixit PD . 1932. Studies in Indian pulses. A note on the cytology of 'Kabuli' and 'Desi' gram types. *Indian Journal of Agricultural Sciences* . 2. 335 - 390.
9. Dombrowskaia-Slutskaia L. 1927. La cinesse somatique der *C. arietinum*. *Jour. Soc. Bot. Russie*. 12. 163 - 172.
10. Furnkranz D. 1968. Beitrage zur Systematik und Karyologie der Gattung *Cicer* I. Die europaischen Arten. *Osterreichische Botanische Zeitschrift*. 115. 400 - 410.
11. Mercy ST, Kakar SN, Chowdhury JB. 1974. Cytological Studies in Three Species of the Genus *Cicer*. *Cytologia*. 39. 383 - 390 .
12. Ahmad S, Godward MBE. 1980. Cytological studies on the cultivars of *Cicer arietinum* L. from Pakistan. *Caryologia* . 33. 55 - 68 .
13. Kutarekar DR, Wanjari KB . 1983. Karyomorphological studies in some of the varieties of bengal gram (*Cicer arietinum*, Linn.). *Cytologia*. 48. 699 - 705.
14. Akter S, Alam SS. 2005. Differential fluorescent banding pattern in three varieties of *Cicer arietinum* L. (Fabaceae). *Cytologia* . 70. 441 - 445.
15. Mukherjee S, Sharma AK. 1987. Structure and behaviour of chromosomes in the strains of *Cicer arietinum* L. *Cytologia* . 52. 707 - 713.

16. Khattak GSS, Wolny E, Saeed I. 2007. Detection of ribosomal DNA sites in chickpea (*Cicer arietinum* L.) and mungbean (*Vigna radiata* (L.) wilczek) by fluorescence in situ hybridization. *Pakistan Journal of Botany* .39.1511 - 1515.
17. Venora G, Ocampo B, Singh KB, Saccardo F .1995. Karyotype of the kabuli-type chickpea (*Cicer arietinum* L.) by image analysis system. *Caryologia*.48.147 - 155.
18. Ahmad F, Chen Q. 2000. Meiosis in *Cicer* L. Species: The relationship between chiasma frequency and genome length. *Cytologia*.65.161 - 166.
19. Kordi FM, Majd A, Valizadeh M, Sheida M, Sabaghpourm H. 2006. A comparative study of chromosome morphology among some genotypes of *Cicer arietinum* L. *Pakistan Journal of Biological Sciences*.9.1225 - 1230.
20. Valarik M, Bartos J, Kovarova P, Kubalaková M, De Jong JH, Dolezel J .2004. High-resolution FISH on super-stretched flow-sorted plant chromosomes. *The Plant Journal* .37.940 - 950.
21. Phadnis BA, Narkhede MN. 1972. Chromosome behaviour in colchicine induced autotetraploids of *Cicer arietinum* L. *Cytologia*.37.415 - 421.
22. Wani AA, Anis M. 2013. Spectrum and frequency of meiotic aberrations induced by gamma rays and EMS in *Cicer arietinum* L. *Chromosome Science* .16.11 - 16.
23. Ladizinsky G, Adler A .1976a. The origin of chickpea (*Cicer arietinum* L.). *Euphytica*.25.211 - 217.
24. Ladizinsky G, Adler A. 1976b. Genetic relationships among annual species of *Cicer* L. *Theoretical and Applied Genetics*.48.197 - 203.
25. Sharma PC, Gupta PK .1983. Cytological studies in the genus *Cicer* L. In: Proceedings of the XV International Congress of Genetics. Oxford and IBH Publishing Company New Delhi. India.
26. Ahmad F, Slinkard AE, Scoles GJ .1987. Karyotypic analysis of annual *Cicer* L. species. *The Genetics Society of Canada Bulletin* .18.130.
27. Abbo S, Miller TE, Reader SM, Dunford RP, King IP .1994. Detection of ribosomal DNA sites in lentil and chickpea by fluorescent in situ hybridization. *Genome* .37.713 - 716.
28. Galasso I, Pignone D. 1992. Characterization of chickpea chromosomes by banding techniques. *Genetic Resources and Crop Evolution*.39.115 - 119.
29. Staginnus C, Winter P, Desel C, Schmidt T, Kahl G. 1999. Molecular structure and chromosomal localization of major repetitive DNA families in the chickpea (*Cicer arietinum* L.) genome. *Plant Molecular Biology* .39.1037 - 1050.
30. Ahmad FA. 2000. Comparative study of chromosome morphology among the nine annual species of *Cicer* L. *Cytobios* .101.37 - 53.

31. Dixit PD.1932.Studies in Indian pulses.A case of gigantism in gram (*C.arietinum*).Indian Journal of Agricultural Sciences.2.391 - 408.
- 32.Iyengar NK .1939.Cytological Investigations on the Genus *Cicer*.Annals of Botany .3.271 - 305.
- 33.Meenakshi G, Subramaniam MK.1962.55.15 - 23.Variations in the satellited chromosomes of *Cicer arietinum* Linn.Proceedings of the Indian Academy of Sciences - Section B.
- 34.Meenakshi G, Subramaniam MK.1960.Tandem satellites in *Cicer arietinum* L.Current Science.29.438 - 439.
- 35.Gortner G, Nenno M, Weising K, Zink D, Nagl W, Kahl G.1998.Chromosomal localization and distribution of simple sequence repeats and the Arabidopsis-type telomere sequence in the genome of *Cicer arietinum* L.Chromosome Research.6.97 - 104.
- 36.Ocampo B, Venora G, Errico A, Singh KB, Saccardo F.1992.Karyotype analysis in the genus *Cicer*.Journal of Genetics and Breeding.46.229 - 240.
- 37.Tayyar RI, Lukaszewski AJ, Waines JG.1994.Chromosome banding patterns in the annual species of *Cicer*.Genome .37.656 - 663.
- 38.Staginnus C, Desel C, Schmidt T, Kahl G.2010.Assembling a puzzle of dispersed retrotransposable sequences in the genome of chickpea (*Cicer arietinum* L.).Genome .53.1090 - 1102.
- 39.Meenakshi G, Subramaniam MK.1966.Triploidy in *Cicer arietinum* L.Caryologia.19.163 - 166.
- 40.Kabir G, Singh RM.1991.Meiotic studies in two species of *Cicer* and their hybrids.Cytologia.56.577 - 585.
- 41.Mannan MA, Kabir G, Shaheen NN, Akhter FN.1991.Meiotic studies in seven pulse crops of Bangladesh.Cytologia.56.511 - 515 .
- 42.Lavania UC, Lavania S.1982.Chromosome banding patterns in some Indian pulses.Annals of Botany .49.235 - 239.
- 43.Zatloukalova P, Hribova E, Kubalaková M, Suchanková P, Simková H, Adoracion C, Kahl G, Millan T, Dolezel J.2011.Integration of genetic and physical maps of the chickpea (*Cicer arietinum* L.) genome using flow-sorted chromosomes.Chromosome Research.19.729 - 739.
- 44.Javadi F, Yamaguchi H.2004.RAPD and seed coat morphology variation in annual and perennial species of the genus *Cicer* L.Genetic Resources and Crop Evolution.51.783 - 794.
- 45.Singh A, Devarumath RM, Rao S.R.Singh VP, Raina SN.2008.Assessment of genetic diversity and phylogenetic relationships based on ribosomal DNA repeat unit length variation and Internal Transcribed Spacer (ITS) sequences in chickpea (*Cicer arietinum*) cultivars and its wild species.Genetic Resources and Crop Evolution .55.65 - 79.

46. Ahmad F. 1999. Random amplified polymorphic DNA (RAPD) analysis reveals genetic relationships among the annual *Cicer* species. *Theoretical and Applied Genetics*. 98. 657- 663.
47. Sharma PC, Winter P, Burger T, Huttel B, Weigand F, Weising K, Kahl G. 1995. Abundance and polymorphism of di-tri-and tetra-nucleotide tandem repeats in chickpea (*Cicer arietinum* L.). *Theoretical and Applied Genetics* .90. 90 - 96.
48. Patil PB, Vrinten PL, Scoles GJ, Slinkard AE. 1995. Variation in the ribosomal RNA units of the genera *Lens* and *Cicer*. *Euphytica*. 83. 33 - 42.
49. Rajesh PN, Sant VJ, Gupta VS, Muehlbauer FJ, Ranjekar PK. 2002. Genetic relationships among annual and perennial wild species of *Cicer* using inter simple sequence repeat (ISSR) polymorphism. *Euphytica*. 129. 15 - 23.
50. Rheenens HA van. 1992. Biotechnology and chickpea breeding. *International Chickpea News Letter*. 26. 14 - 17.
51. Bhagyawant SS, Srivastava N. 2008. Genetic fingerprinting of chickpea (*Cicer arietinum* L.) germplasm using ISSR markers and their relationships. *African Journal of Biotechnology* .7. 4428 - 4431.
52. Talebi R, Jelodar NAB, Mardi M, Fayaz F, Furman BJ, Bagheri NA. 2009. Phylogenetic diversity and relationship among annual *Cicer* species using random amplified polymorphic DNA markers. *General and applied plant physiology*. 35. 3 - 12.
53. Rao LS, Usha RP, Deshmukh PS, Kumar PA, Panguluri SK. 2007. RAPD and ISSR fingerprinting in cultivated chickpea (*Cicer arietinum* L.) and its wild progenitor *Cicer reticulatum* Ladizinsky. *Genetic Resources and Crop Evolution* .54. 1235 - 1244 .
54. Bharadwaj C, Chauhan SK, Rajguru G, Srivastava R, Tara SC, Yadav S, Rizvi AH, Kumar J, Solanki RK. 2010. Diversity analysis of chickpea (*Cicer arietinum* L.) cultivars using STMS markers. *Indian Journal of Agricultural Sciences* .80. 947 - 951.
55. Choudhary S, Sethy NK, Bhatiya S. 2006. Development of sequence-tagged microsatellites site markers for chickpea (*Cicer arietinum* L.). *Molecular Ecology Notes*. 6. 93 - 95.
56. Sethy NK, Shokeen B, Edwards KJ, Bhatiya S. 2006. Development of microsatellite markers and analysis of intraspecific genetic variability in chickpea (*Cicer arietinum* L.). *Theoretical and Applied Genetics*. 112. 1416 - 1428.
57. Winter P, Pfaff T, Udupa SM, Huttel B, Sharma PC, Sahi S, Arreguin-Espinoza R, Weigand F, Muehlbauer FJ, Kahl G. 1999. Characterization and mapping of sequence tagged microsatellite sites in the chickpea (*Cicer arietinum* L.) genome. *Molecular Genetics* .262. 90 - 101.
58. Choudhary CK, Abhishek D. 2010. Interspecific detection of polymorphism using sequence tagged microsatellites (STMS) in chickpea. *Electronic Journal of Plant Breeding* .1. 484 - 488 .

59. Aggarwal H, Rao A, Kumar A, Singh J, Rana JS, Naik PK, Chhokar V. 2015. Assessment of genetic diversity among 125 cultivars of chickpea (*Cicer arietinum* L.) of Indian origin using ISSR markers. *Turkish Journal of Botany*. 39.218 - 226.
60. Aggarwal H, Rao A, Kumar A, Singh J, Rana JS, Naik PK, Chhokar V. 2015. Evaluation of genetic divergence and phylogenetic relationship using sequence-tagged microsatellite (STMS) sequences in Chickpea (*Cicer arietinum* L.) genotypes. *African Journal of Biotechnology*. 14.3051 - 3061.
61. Castro P, Millan T, Gil J, Merida J, Garcia ML, Rubio J, Fernandez Romero MD. 2011. Identification of chickpea cultivars by microsatellite markers. *Journal of Agricultural Science* .149.451 - 460.
62. Choudhary S, Sethy NK, Shokeen B, Bhatia S. 2009. Development of chickpea EST-SSR markers and analysis of allelic variation across related species. *Theoretical and Applied Genetics* .118.591 - 608.
63. Sefera T, Abebie B, Gaur PM, Assefa K, Varshney RK. 2011. Characterisation and genetic diversity analysis of selected chickpea cultivars of nine countries using simple sequence repeat (SSR) markers. *Crop and Pasture Science*. 62.177 - 187.
64. Choumane W, Winter P, Weigand F, Kahl G. 2000. Conservation and variability of sequence-tagged microsatellite sites (STMS) from chickpea (*Cicer arietinum* L.) within the genus *Cicer*. *Theoretical and Applied Genetics* .101.269 - 278.
65. Huttel B, Winter P, Weising K, Choumane W, Weigand F, Kahl G. 1999. Sequence-tagged microsatellite markers for chickpea (*Cicer arietinum* L.). *Genomics*. 42.210 - 217.
66. Iruela M, Rubio J, Cubero JI, Gil J, Milan T. 2002. Phylogenetic analysis in the genus *Cicer* and cultivated chickpea using RAPD and ISSR markers. *Theoretical Applied and Genetics* .104.643 - 651.
67. Kumar M, Chhokar V, Kumar A, Sarla, Beniwal V, Aggarwal H. 2015. A comparative study of genetic diversity in chickpea based upon touchdown and non-touchdown PCR using ISSR markers. *Chiang Mai Journal of Science*. 42.118 - 126.
68. Sant VJ, Patankar AG, Sarode ND, Mhase LB, Sainani MN, Deshmukh RB, Ranjekar PK, Gupta VS. 1999. Potential of DNA markers in detecting divergence and in analysing heterosis in Indian elite chickpea cultivars. *Theoretical and Applied Genetics* .98.1217 - 1225.
69. Upadhyaya HD, Dwivedi SL, Baum M, Varshney RK, Udupa SM, Gowda CLL, Hoisingtonand D, Singh S. 2008. Genetic structure, diversity, and allelic richness in composite collection and reference set in chickpea (*Cicer arietinum* L.). *BMC Plant Biology* .8. doi: 10.1186/1471-2229-8-106.
70. Serret MD, Udupa SM, Weigand F. 1997. Assessment of genetic diversity of cultivated chickpea using microsatellite-derived RFLP markers: implications for origin. *Plant Breeding* .116.573 - 578.
71. Singh R, Prasad CD, Singhal V, Randhawa GJ. 2002. Analysis of Genetic Diversity in *Cicer arietinum* L. using random amplified polymorphic DNA markers. *Journal of Plant Biochemistry and Biotechnology*. 11.109 - 112.

72. Rajesh PN, O'Bleness M, Roe BA, Muehlbauer FJ. 2008. Analysis of genome organization, composition and microsynteny using 500 kb BAC sequences in chickpea. *Theoretical and Applied Genetics*. 117.449 - 458.
73. Naghavi MR, Monfared SR, Humberto G. 2012. Genetic Diversity in Iranian Chickpea (*Cicer arietinum* L.) landraces as revealed by microsatellite markers. *Czech Journal of Genetics and Plant Breeding*. 48.131 - 138.
74. Lichtenzveig J, Scheuring C, Dodge J, Abbo S, Zhang HB. 2005. Construction of BAC and BIBAC libraries and their applications for generation of SSR markers for genome analysis of chickpea, *Cicer arietinum* L. *Theoretical and Applied Genetics* .110.492 - 510.
75. Aggarwal H, Rao A, Rana JS, Singh J, Kumar A, Chhokar V, Beniwal V. 2011. Inter simple sequence repeats reveal significant genetic diversity among chickpea (*Cicer arietinum* L.) genotypes. *Journal of Plant Sciences* .6.202 - 212 .
76. Udupa SM, Robertson LD, Weigand F, Baum M, Kahl G. 1999. Allelic variation at (TAA)<sub>n</sub> microsatellite loci in a world collection of chickpea (*Cicer arietinum* L.) germplasm. *Molecular and General Genetics* .261.354 - 363.
77. Udupa SM, Sharma A, Sharma RP, Pai RA. 1993. Narrow genetic variability in *Cicer arietinum* L. as revealed by RFLP analysis. *Journal of Plant Biochemistry and Biotechnology* .2.83 - 86.
78. Sethy NK, Shokeen B, Bhatia S. 2003. Isolation and characterization of sequence- tagged microsatellite sites markers in chickpea (*Cicer arietinum* L.). *Molecular Ecology Notes* .3.428 - 430.
79. Sethy NK, Choudhary S, Shokeen B, Bhatiya S. 2006. Identification of microsatellite markers from *Cicer reticulatum*: molecular variation and phylogenetic analysis. *Theoretical and Applied Genetics* .112.347 - 357.
80. Shan F, Clarke HC, Plummer JA, Yan G, Siddique KHM. 2005. Geographical patterns of genetic variation in the world collections of wild annual *Cicer* characterized by amplified fragment length polymorphisms. *Theoretical and Applied Genetics* .110.381- 391.
81. Tahir NAR, Karim HFH. 2011. Determination of genetic relationships among some varieties of chickpea (*Cicer arietinum* L.) in Sulaimani by RAPD and ISSR markers. *Jordan Journal of Biological Sciences*. 4.77 - 86.
82. Choudhary P, Khanna SM, Jain PK, Bharadwaj C, Kumar J, Lakhera PC, Srinivasan R. 2012. Genetic structure and diversity analysis of the primary gene pool of chickpea using SSR markers. *Genetics and Molecular Research* .11.891 - 905 .
83. Nguyen TT, Taylor PWJ, Redden RJ, Ford R. 2004. Genetic diversity estimates in *Cicer* using AFLP analysis. *Plant Breeding* .123.173 - 179.

84. Singh R, Prasad CD, Singhal V, Randhawa GJ.2003.Assessment of genetic diversity in chickpea cultivars using RAPD, AFLP and STMS markers.Journal of Genetics and Breeding .57.165 - 174.
- 85.Singh R, Singhal V, Randhawa GJ.2008.Molecular analysis of chickpea (*Cicer arietinum* L.) cultivars using AFLP and STMS markers.Journal of Plant Biochemistry and Biotechnology .17.167 - 171.
- 86.Sudupak A, Akkaya S, Kence A.2002.Analysis of genetic relationships among perennial and annual *Cicer* species growing in Turkey using RAPD markers.Theoretical and Applied Genetics .105.1220 - 1228.
- 87.Sudupak MA, Akkaya MS, Kence A.2004.Genetic relationships among perennial and annual *Cicer* species growing in Turkey assessed by AFLP fingerprinting.Theoretical and Applied Genetics.108.937 - 944.
- 88.Yadav P, Tomar VS, Mishra JK, Chauhan AKS.2012.Relationship among annual species using random amplified polymorphic DNA markers.Indian Journal of Life Sciences .1.7 - 12.
- 89.Buhariwalla HK, Jayashree B, Eshwar K, Crouch JH.2005.Development of ESTs from chickpea roots and their use in diversity analysis of the *Cicer* genus.BMC Plant Biology .5.doi: 10.1186/1471-2229-5-16.
- 90.Qadir SA, Datta S, Singh NP, Kumar S.2007.Development of highly polymorphic SSR markers for chickpea (*Cicer arietinum* L.) and their use in parental polymorphism.Indian Journal of Genetics.67.329 - 333 .
- 91.Banerjee H, Pai RA, Sharma RP.1999.Restriction fragments length polymorphism and random amplified polymorphic DNA analysis of Chickpea accession.Biologia Plantarum.42.197 - 208.
- 92.Talebi RF, Fayaz M, Mardi SM, Pirsyedi, Naji AM.2008.Genetic relationships among chickpea (*Cicer arietinum*) elite lines based on RAPD and agronomic markers.International Journal of Agriculture & Biology .10.301- 305 .
- 93.Hiremath PJ, Kumar A, Penmetsa RV, Farmer A, Schlueter JA, Chamarthi SK, Whaley AM, Carrasquilla-Garcia N, Gaur PM, Upadhyaya HD, Kavi Kishor PB, Shah TM, Cook DR, Varshney RK.2012.Large-scale development of cost-effective SNP marker assays for diversity assessment and genetic mapping in chickpea and comparative mapping in legumes.Plant Biotechnology Journal.10.716 - 732.
- 94.Roorkiwal M, Von Wettberg EJ, Upadhyaya HD, Warschefsky E, Rathore A, Varshney RK.2014. Exploring germplasm diversity to understand the domestication process in *Cicer* spp.using SNP and DArT Markers.PLoS ONE.9. doi:10.1371/journal.pone.0102016.
- 95.Kujur A, Bajaj D, Upadhyaya HD, Das S, Ranjan R, Shree T, Saxena MS, Badoni S, Kumar V, Tripathi S, Gowda CLL, Sharma S, Singh S, Tyagi AK, Parida SK.2015.Employing genome-wide SNP discovery and genotyping strategy to extrapolate the natural allelic diversity and domestication patterns in chickpea.Frontiers in Plant Science.6.doi: 10.3389/fpls.2015.00162.

96. Chowdhury MA, Vandenberg B, Warkentin T. 2002. Cultivar identification and genetic relationship among selected breeding lines and cultivars in chickpea (*Cicer arietinum* L.). *Euphytica*. 127.317 - 325.
97. Datta J, Lal N. 2011. Characterization of genetic diversity in *Cicer arietinum* L. and *Cajanus cajan* L. Millspaugh using random amplified polymorphic DNA and simple sequence repeat markers. *Genomics and Quantitative Genetics*. 3.30 - 41 .
98. Keneni G, Bekele E, Imtiaz M, Dagne K, Getu E, Assefa F. 2012. Genetic diversity and population structure of Ethiopian chickpea (*Cicer arietinum* L.) germplasm accessions from different geographical origins as revealed by microsatellite markers. *Plant Molecular Biology Reporter*. 30.654 - 665.
99. Sonnante G, Marangi A, Venora G, Pignone D. 1997. Using RAPD markers to investigate genetic variation in chickpea. *Journal of Genetics & Breeding*. 51.303 - 307 .
101. Singh R, Singhal V, Randhawa GJ. 2008. Molecular analysis of chickpea (*Cicer arietinum* L.) cultivars using AFLP and STMS markers. *Journal of Plant Biochemistry & Biotechnology*. 17.167 - 171.
102. Rajesh PN, Muehlbauer FJ. 2008. Discovery and detection of single nucleotide polymorphism (SNP) in coding and genomic sequences in chickpea (*Cicer arietinum* L.). *Euphytica* .162.291 - 300.
103. Hajj-Moussa E, Millan T, Gil J, Cubero JI. 1996. Variability and genome length estimation in chickpea (*Cicer arietinum* L.) revealed by RAPD analysis. *Journal of Genetics and Breeding* .51.83 - 85.
104. Moreno MT, Cubero JI. 1978. Variation in *Cicer arietinum* L. *Euphytica* .27.465 - 468.
105. Sudpak MA. 2004. Inter and intra-species Inter Simple Sequence Repeat (ISSR) variations in the genus *Cicer*. *Euphytica* .135.229 - 238.
106. Weising K, Kaemmer D, Weigand F, Epplen JT, Kahl G. 1992. Oligonucleotide fingerprinting reveals various probe-dependent levels of informativeness in chickpea (*Cicer arietinum*). *Genome* .35.436 - 442.
107. Amirmoradi B, Talebi R, Karami E. 2012. Comparison of genetic variation and differentiation among annual *Cicer* species using start codon targeted (SCoT) polymorphism, DAMD-PCR, and ISSR markers. *Plant Systematics and Evolution*. 298.1679 - 1688.
108. Andeden EE, Baloch FS, Derya M, Kilian B, Ozkan H. 2013. iPBS-retrotransposons-based genetic diversity and relationship among wild annual *Cicer* species. *Journal of Plant Biochemistry and Biotechnology* .22.453 - 466.
109. Sharma PC, Huttel B, Winter P, Kahl G, Gardner RC, Weising K. 1995. The potential of microsatellites for hybridization and polymerase chain reaction-based DNA fingerprinting of chickpea (*Cicer arietinum* L.) and related species. *Electrophoresis*. 16.1755 -1761.
110. Saeed A, Hovsepyan H, Darvishzadeh R, Imtiaz M, Panguluri SK, Nazaryan R. 2011. Genetic diversity of Iranian accessions, improved lines of chickpea (*Cicer arietinum* L.) and their wild relatives by using simple sequence repeats. *Plant Molecular Biology Reporter*. 29.848 - 858.



111. Millan T, Winter P, Jungling R, Gil J, Rubio J, Cho S, Cobos MJ, Iruela M, Rajesh PN, Tekeoglu M, Kahl G, Muehlbauer FJ. 2010. A consensus genetic map of chickpea (*Cicer arietinum* L.) based on 10 mapping populations. *Euphytica*. 175:175 - 189.
112. Bharadwaj C, Chauhan SK, Yadav S, Satyavathi CT, Singh R, Kumar J, Srivastava R, Rajguru G. 2011. Molecular marker-based linkage map of chickpea (*Cicer arietinum*) developed from desi × kabuli cross. *Indian Journal of Agricultural Sciences*. 81:116 - 118.
113. Cobos MJ, Fernandez MJ, Rubio J, Kharrat M, Moreno MT, Gil J, Millan T. 2005. A linkage map of chickpea (*Cicer arietinum* L.) based on populations from kabuli × desi crosses: location of genes for resistance to fusarium wilt race 0. *Theoretical and Applied Genetics*. 110:1347- 1353.
114. Winter P, Benko-Iseppon AM, Huttel B, Ratnaparkhe MB, Tullu A, Sonnante G, Ptaff T, Tekeoglu M, Santra D, Sant VJ, Rajesh PN, Kahl G, Muehlbauer FJ. 2000. A linkage map of the chickpea (*Cicer arietinum* L.) genome based on recombinant inbred lines from a *Cicer arietinum* × *Cicer arietinum* cross: localization of resistance genes for fusarium wilt races 4 and 5. *Theoretical and Applied Genetics*. 101:1155 - 1163.
115. Radhika P, Gowda S, Kadoo N, Mhase L, Jamadagni B, Sainani M, Chandra S, Gupta V. 2007. Development of an integrated intraspecific map of chickpea (*Cicer arietinum* L.) using two recombinant inbred line populations. *Theoretical and Applied Genetics*. 115:209 - 216.
116. Simon CJ, Muehlbauer FJ. 1997. Construction of a chickpea linkage map and its comparison with maps of pea and lentil. *Journal of Heredity*. 38:115 - 119.
117. Gaur R, Sethy NK, Choudhary S, Shokeen B, Gupta V, Bhatia S. 2011. Advancing the STMS genomic resources for defining new locations on the intraspecific genetic linkage map of chickpea (*Cicer arietinum* L.). *BMC Genomics*. 12. doi: 10.1186/1471-2164-12-117.
118. Gaur R, Azam S, Jeena G, Khan AW, Choudhary S, Jain M, Yadav G, Tyagi AK, Chattopadhyay D, Bhatia S. 2012. High-throughput SNP discovery and genotyping for constructing a saturated linkage map of chickpea (*Cicer arietinum* L.). *DNA Research*. doi: 10.1093/dnares/dss018.
119. Flandez-Galvez H, Ford R, Pang ECK, Taylor PWJ. 2003. An interspecific linkage map of the chickpea (*Cicer arietinum* L.) genome based on sequence tagged microsatellite site and resistance gene analog markers. *Theoretical and Applied Genetics*. 106:1447 - 1456.
120. Pfaff T, Kahl G. 2003. Mapping of gene-specific markers on the genetic map of chickpea (*Cicer arietinum* L.). *Molecular Genetics and Genomics*. 269:243 - 251.
121. Thudi M, Bohra A, Nayak SN, Varghese N, Shah TM, Penmetsa RV, Thirunavukkarasu N, Gudipati S, Gaur PM, Kulwal PL, Upadhyaya HD, KaviKishor PB, Winter P, Kahl G, Town CD, Kilian A, Cook DR, Varshney RK. 2011. Novel SSR markers from BAC-end sequences, DArT arrays and a comprehensive genetic map with 1,291 marker loci for chickpea (*Cicer arietinum* L.). *PLoS ONE*. 6. doi:10.1371/journal.pone.0027275.

122. Deokar AA, Ramsay L, Sharpe AG, Diapari M, Sindhu A, Bett K, Warkentin TD, Taran B. 2014. Genome wide SNP identification in chickpea for use in development of a high density genetic map and improvement of chickpea reference genome assembly. *BMC Genomics* .15. doi: 10.1186/1471-2164-15-708.
123. Jaganathan D, Thudi M, Kale S, Azam S, Roorkiwal M, Gaur PM, Kavi kishor PB, Nyugen H, Sutton T, Varshney RK. 2015. Genotyping-by-sequencing based intra-specific genetic map refines a "QTL-hotspot" region for drought tolerance in chickpea. *Molecular Genetics and Genomics*. 290. doi: 10.1007/s00438-014-0932-3.
124. Nayak SN, Zhu H, Varghese N, Datta S, Choi H, Horres R, Jungling R, Singh J, Kavi Kishore PB, Sivaramakrishnan S, Hoisington DA, Kahl G, Winter P, Cook DR, Varshney RK. 2010. Integration of novel SSR and gene-based SNP marker loci in the chickpea genetic map and establishment of new anchor points with *Medicago truncatula* genome. *Theoretical and Applied Genetics* .120. 1415 - 1441.
125. Kujur A, Upadhyaya HD, Shree T, Bajaj D, Das S, Saxena MS, Badoni S, Kumar V, Tripathi S, Gowda CLL, Sharma S, Singh S, Tyagi AK, Parida SK. 2015. Ultra-high density intra-specific genetic linkage maps accelerate identification of functionally relevant molecular tags governing important agronomic traits in chickpea. *Scientific Reports* .5. doi: 10.1038/srep09468.
126. Santra DK, Tekeoglu M, Ratnaparkhe M, Kaiser WJ, Muehlbauer FJ. 1999. Identification and mapping of QTLs conferring resistance to ascochyta blight in Chickpea. *Crop Science* .40. 1606 - 1612.
127. Collard BCY, Pang ECK, Ades PK, Taylor PWJ. 2003. Preliminary investigation of QTLs associated with seedling resistance to ascochyta blight from *Cicer echinospermum*, a wild relative of chickpea. *Theoretical and Applied Genetics* .107. 719 - 729.
128. Choudhary S, Gaur R, Gupta S, Bhatia S. 2012. EST-derived genic molecular markers: development and utilization for generating an advanced transcript map of chickpea. *Theoretical and Applied Genetics*. 124. 1449 - 1462.
129. Tekeoglu M, Rajesh PN, Muehlbauer FJ. 2002. Integration of sequence tagged microsatellite sites to the chickpea genetic map. *Theoretical and Applied Genetics* .105. 847 - 854.
130. Anbessa Y, Taran B, Warkentin TD, Tullu A, Vandenberg A. 2009. Genetic analyses and conservation of QTL for ascochyta blight resistance in chickpea (*Cicer arietinum* L.). *Theoretical and Applied Genetics* .119. 757 - 765.
131. Palomino C, Fernández-Romero MD, Rubio J, Torres A, Moreno MT, Millan T. 2009. Integration of new CAPS and dCAPS-RGA markers into a composite chickpea genetic map and their association with disease resistance. *Theoretical and Applied Genetics* .118. 671 - 682.
132. Rajesh PN, Coyne C, Meksem K, Sharma KD, Gupta V, Muehlbauer FJ. 2004. Construction of a Hind III bacterial artificial chromosome library and its use in identification of clones associated with disease resistance in chickpea. *Theoretical and Applied Genetics* .108. 663 - 669.

134. Ladizinsky G, Adler A. 1975. The origin of chickpea as indicated by seed protein electrophoresis. *Israel Journal of Botany* .24.183 - 189.
135. Kabir G, Singh RM. 1988. Seed protein electrophoresis in six species and two F1s of *Cicer*. *Proceedings of Indian Academy of Sciences (Plant Science)* .98.183 - 189.
136. Ahmad F, Slinkard AE, Scoles GJ. 1987. The cytogenetic relationship between *Cicer judaicum* Boiss. and *Cicer chorassanicum* (Bge.) M. Pop. *Genome*.29.883 - 886.
137. Kumar P, Singhal VK, Kaur D. 2008. Meiotic studies in species from the cold deserts of Lahaul-Spiti and adjoining areas (Northwest Himalaya). *Cytologia*.73.463 - 470.
138. Gupta RC, Himshikha, Kumar P, Dhaliwal RS. 2009. Cytological studies in some plants from cold deserts of India , Lahaul and Spiti (Himachal Pradesh). *Chromosome Botany* .4.5 - 11.
139. Ahmad F. 1989. The Chromosomal architecture of *Cicer anatolicum* Alef., a wild perennial relative of chickpea . *Cytologia*.54.753 - 757.
140. Hejazi SMH. 2011. Karyological study on three *Cicer* L. species (Fabaceae) in Iran. *Asian Journal of cell Biology* .6.97 - 104.
141. Pundir RPS, Mengesha MH, Reddy GV. 1993. Morphology and cytology of *Cicer canariense*, a wild relative of chickpea. *Euphytica*.69.73 - 75.
142. Javadi F, Yamaguchi H. 2004. Interspecific relationships of the genus *Cicer* L. (Fabaceae) based on trnT-F sequences. *Theoretical and Applied Genetics*.109.317 - 322.
143. Ozturk M, Duran A, Hakki EE. 2013. Cladistic and phylogenetic analyses of the genus *Cicer* in Turkey. *Plant Systematics and Evolution*.299.1955 -1966.
144. Frediani M, Caputo P. 2005. Phylogenetic relationships among annual and perennial species of the genus *Cicer* as inferred from ITS sequences of nuclear ribosomal DNA. *Biologia Plantarum* .49.47 - 52.
145. Javadi F, Wojciechowski MF, Yamaguchi H. 2007. Geographical diversification of the genus *Cicer* (Leguminosae: Papilionoideae) inferred from molecular phylogenetic analyses of chloroplast and nuclear DNA sequences. *Botanical Journal of the Linnaean Society* .154.175 - 186.
146. De Montmollin B. 1984. Etude cytotaxonomique de la flore de la Crète. II. Nombres chromosomiques. *Botanica Helvetica*.94.261 - 267.