

B-CHROMOSOMES

- Banaei-Moghaddam AM, V Schubert, K Kumke, O Weiss, S Klemme, K Nagaki, J Macas, M González-Sánchez, V Heredia, D Gómez-Revilla, M González-García, JM Vega, MJ Puertas and A Hoeben. 2012. Nondisjunction in favor of a chromosome: the mechanism of rye B chromosome drive during pollen mitosis. *Plant Cell* 24: 4124-4134.
- Birchler JA. 2015. Engineered minichromosomes in maize. *Chromosome Research* 23:77-85.
- Blavet, N, H Yang, H Su, P. Slanský, RN Douglas, M Karafiátová, L Simková, J Zhang, Y Liu, J Hou, X Shi, C Chen, M El-Walid, ME McCaw, PS Albert, Z Gao, C Zhao, G Ben-Zvi, L G, G Kol, J Shi, J Vrána, H Simková, JC Lamb, K Newton, RK Dawe, J Dolezel, T Ji, K Baruch, J Chen, F Han, JA Birchler, and J Bartos. 2021. Sequence of the supernumerary B chromosome of maize provides insight into its drive mechanism and evolution. *PNAS* 118: 23 e2104254118
- Bougourd, S.M. and R.N. Jones. 1997. B chromosomes: a physiological enigma. *New Phytol.* 137:43-54. (QK1.N532)
- Camacho, J.P.M., T.F. Sharbel, and L.W. Beukeboom. 2000. B-chromosome evolution. *Phil. Trans. R. Soc. Lond. B.* 355:163-178.
- Chen J, J Bartoš, A. Boudichevskaia, A Voigt, MT Rabanus-Wallace, S Dreissing, Z Tulpová, H Šimková, J Macas, G Kim, J Buhl, K Bürstenbinder, FR Blattner, J Fuchs, T Schmutzer, A Himmelbach, V Schubert & A Houben. 2024. The genetic mechanism of B chromosome drive in rye illuminated by chromosome-scale assembly. *Nat Commun*, 15: 9686. <https://doi.org/10.1038/s41467-024-53799-w>
- Cheng, Y.-M. and B.-Y. Lin. 2003. Cloning and characterization of maize B chromosome sequences derived from microdissection. *Genetics* 164:299-310.
- González-Sánchez, M., E. González-Sánchez, E. Molina, A.M. Chiavarino, M. Rosato, M.J. Puertas. 2003. One gene determines maize B chromosome accumulation by preferential fertilisation; another gene(s) determines their meiotic loss. *Heredity*. 90:122-129.
- Hasegawa N. 1934. A cytological study on 8-chromosome rye. *Cytologia* 6:68-77.
- Houben A. 2017. B chromosomes – a matter of chromosome drive. *Frontiers in Plant Science.* 8:210.
- Houben A, AM Banaei-Moghaddam, S Klemme, and JN Timmis. 2014. Evolution and biology of supernumerary B chromosomes. *Cellular and Molecular Life Sciences.* 71:467-478.
- Huang Y-H, S-F Peng, Y-P Lin & Y-M Cheng. 2020. The maize B chromosome is capable of expressing microRNAs and altering the expression of microRNAs derived from A chromosomes. *Chromosome Research* 28: 129-138.
- Jones, N. and I Pasakinskiene. 2004. Genome conflict in the gramineae. *New Phytologist.* 165:391-410.
- Jones, R.N. 1995. Tansley Review No. 85. B chromosomes in plants. *New Phytol.* 131:411-434. (QK1.N532)
- Jones, R.N., and H. Rees. 1982. *B Chromosomes*. Academic Press, London (QH600.J66)
- Jones, R.N., W. Viegas, and A. Houben. 2008. A century of B chromosomes in plants: So what? *Annals of Botany.* 101:767-775.
- Levin, D.A., B.G. Palestis, R.N. Jones, and R. Trivers. 2005. Phyletic hotspots for B chromosomes in angiosperms. *Evol.* 59:962-969.
- Marques, A., S. Klemme, and A. Houben. 2018. Evolution of plant B chromosome enriched sequences. *Genes* 9:515.

- Martis, M.M., S. Klemme, A.M. Banei-Moghaddam, F.R. Blattner, J. Macas, T. Schmutzer, U. Scholz, H. Gundlach, T. Wicker, H. Simková, P. Novák, P. Neumann, M. Kubaláková, E. Bauer, G. Haseneyer, J. Fuchs, J. Dolezel, N. Stein, K.F.X. Mayer, and A. Houben. 2012. Selfish supernumerary chromosome reveals its origin as a mosaic of host genome and organellar sequences. *PNAS* 109:13343-13346.
- Müntzing, A. 1963. Effects of accessory chromosomes in diploid and tetraploid rye. *Hereditas* 49:371-426.
- Naish M. 2024. Bridging the gap: unravelling plant centromeres in the telomere-to-telomere era. *New Phytologist*, 244: 2143-2149, <https://doi.org/10.1111/nph.20149>
- Pereira, H.S., M. Delgado, W. Viegas, J.M. Rato, A. Barão, and A.D. Caperta. 2017. Rye (*Secale cereale*) supernumerary (B) chromosomes associated with heat tolerance during early stages of male sporogenesis. *Annals of Botany*. 119:325-337.
- Pokorná MJ and R Reifová. 2021. Evolution of B chromosomes: From dispensable parasitic chromosomes to essential genomic players. *Frontiers in Genetics*. <https://doi.org/10.3389/fgene.2021.727570>
- Roman, H. 1947. Mitotic nondisjunction in the case of interchanges involving the B-type chromosome in maize. *Genetics* 32:391-409.
- Romera, F., M.M. Jiménez, and M.J. Puertas. 1991. Factors controlling the dynamics of B chromosomes in Korean rye. *Heredity* 67:189-195. (S494.J861)
- Rosato, M., A.M. Chiavarino, C.A. Naranjo, J. Camara Hernandez and L. Poggio. 1998. Genome size and numerical polymorphism for the B chromosome in races of maize (*Zea mays* spp *mays*, Poaceae). *Am. J. Bot.* 85:168-174.
- Shams I & O Raskina. 2020. Supernumerary B chromosomes and plant genome changes: A shapshot of wild populations of *Aegilops speltoides* Tausch (Poaceae, Triticeae). *Int. J. Mol. Sci.* 21: 3768
- Trivers, R., A. Burt, and B.G. Palestis. 2004. B chromosomes and genome size in flowering plants. *Genome* 47:1-7.
- Vujosevic M, M Rajicic & J Blagojevic. 2018. B chromosomes in populations of mammals revisited. *Genes* 9(10): 487. <https://doi.org/10.3390/genes9100487>
- Wu DD, A Ruban, J Fuchs, J Macas, P Novák, M Vaio, YH Zhou & A Houben. 2019. Nondisjunction and unequal spindle organization accompany the drive of *Aegilops speltoides* B chromosomes. *New Phytologist* 223: 1340-1352.

CENTROMERES

- Anderson LK, A Lai, SM Stack, C Rizzon & BS Gaut. 2007. Uneven distribution of expressed sequence tag loci on maize pachytene chromosomes. *Genome Res.* 16: 115-122
- Birchler, J.A., Z. Gao, A. Sharma, G.G. Presting, and F. Han. 2011. Epigenetic aspects of centromere function in plants. *Curr. Op. Plant Biol.* 14: 217-222.
- Black, B.E. D.R. Foltz, S. Chakravarthy, K. Luger, V.L. Woods, Jr. and D.W. Cleveland. 2004. Structural determinants for generating centromeric chromatin. *Nature* 430: 578-582.
- Copenhaver, G.P., K. Nickel, T. Kuromori, M.-I. Benito, S. Kaul, X. Lin, M. Bevan, G. Murphy, B. Harris, L.D. Parnell, W.R. McCombie, R.A. Martienssen, M. Marra, and D. Preuss. 1999. Genetic definition and sequence analysis of *Arabidopsis* centromeres. *Science*. 286:2468-2474.

- Dawe, RK, JI Gent, Y Zeng, H Zhang, F-F Fu, Kyle Swentowsky, D-w Kim, N Wang, J Liu and RD Piri. 2022. Synthetic maize centromeres transmit chromosomes across generations. doi: <https://doi.org/10.1101/2022.09.19.508542>
- Dawe, RK and S Henikoff. 2006. Centromeres put epigenetics in the driver's seat. *Trends Biotechnol.* 24:662-669.
- Gao Z, S Fu, Q Dong, F Han and JA Birchler. 2011. Inactivation of a centromere during the formation of a translocation in maize. *Chromosome Res* 19:755-761.
- Han, Y., Z. Zhang, C. Liu, J. Liu, S. Huang, J. Jiang, and W. Jin. 2009. Centromere repositioning in cucurbit species: Implication of the genomic impact from centromere inactivation. *PNAS* 106:14937-14941.
- Heckman, S., E. Schroeder-Reiter, K. Kumke, L. Ma, K. Nagaki, M. Murata, G. Wanner and A. Houben. 2011. Holocentric chromosomes of *Luzula elegans* are characterized by a longitudinal centromere groove, chromosomal bending and a terminal nucleolus organizer region. *Cytogenetic and Genome Research* 134:220-228.
- Jin WW, J.R. Melo, K. Nagaki, PB Talbert, S. Henikoff, RK Dawe, and JM Jiang. 2004. Maize centromeres: Organization and functional adaptation in the genetic background of oat. *Plant Cell* 16: 571-581
- Ma J, RA Wing, JL Bennetzen and SA Jackson. 2007. Plant centromere organization: a dynamic structure with conserved functions. *Trends Genet* 23:134-139.
- Nagaki, K. Z. Cheng, S. Ouyang, P. Talbert, M. Kim, K.M. Jones, S. Henikoff, C.R. Buell, and J. Jiang. 2004. Sequencing of a rice centromere uncovers active genes. *Nat. Genet.* 38:138-145.
- Nakano, M., Y. Okamoto, J.-I. Ohzeki, and H. Matsumoto. 2003. Epigenetic assembly of centromeric chromatin at ectopic α -satellite sites on human chromosomes. *J. Cell Sci.* 116:4021-4034.
- Nasuda S, S Hudakova, I Schubert, A Houben and TR Endo. 2005. Stable barley chromosomes without centromeric repeats. *PNAS* 102: 9842-9847.
- Peska V and S Garcia. 2020. Origin, diversity and evolution of telomere sequences in plants. *Frontiers in Plant Science.* 11: 117
- Presting, G.G. 2018. Centromeric retrotransposons and centromere function. *Current Opinion in Genetics and Development.* 49:79-74.
- Puchta H and A Houben. 2023. Plant chromosome engineering – past, present and future. *New Phytologist*, 241: 541-552. <https://doi.org/10.1111/nph.19414>
- Richards, E.J. and R.K. Dawe. 1998. Plant centromeres: structure and control. *Curr. Op. Plant Biol.* 1:130-135.
- Schneider KL, Z Xie, TK Wolfgruber, and GG Presting. 2016. Inbreeding drives maize centromere evolution. *PNAS* 113: E987–E996, doi: 10.1073/pnas.1522008113
- Smykal P, G Aubert, J Burstin, CJ Coyne, NTH Ellis, AJ Flavell, R Ford, M Hybl, J Macas, P Neumann, KE McPhee, RJ Redden, D Rubiales, JL Weller, and TD Warkentin. 2012. Pea (*Pisum sativum* L.) in the genomic era. *Agronomy* 2:74-115.
- Talbert PB and S Henikoff. 2020. What makes a centromere? *Exp. Cell Res.* 389: 111895. doi: 10.1016/j.yexcr.2020.111895
- Topp CN, CX Zhong, and RK. Dawe. 2004. Centromere-encoded RNAs are integral components of the maize kinetochore. *Proc. Natl. Acad. Sci. USA* 101: 15986-15991

- VanBuren R., D Bryant, PP Edger, H Tang, D Burgess, D Challabathula, K Spittle, R Hall, J Gu, E Lyons, M Freeling, D Bartels, BT Hallers, A Hastie, TP Michael and TC Mockler. 2015. Single-molecule sequencing of the desiccation-tolerant grass *Oropetium thomaeum*. *Nature*:527:508-511.
- Wolfruber, TK, MN Nakashima, KL Shneider, A Sharma, Z Xie, PS Albert, RH Xu, P Bilinski, RK Dawe, J Ross-Ibarra, JA Birchler, and GG Presting. 2016. High quality maize centromere 10 sequence reveals evidence of frequent recombination events. *Front Plant Sci* 7:308
- Wu, J. H. Yamagata, M. Hayashi-Tsugane, S. Hijishita, M. Fujisawa, M. Shibata, Y. Ito, M. Nakamura, M. Sakaguchi, R. Yoshihara, H. Kobayashi, K. Ito, W. Karasawa, M. Yamamoto, S. Saji, S. Katagiri, H. Kanamori, N. Namiki, Y. Katayose, T. Matsumoto, and T. Sasaki. 2004. Composition and structure of the centromeric region of rice chromosome 8. *Plant Cell* 16:967-976.
- Yan H, H Ito, K Nobuta, S Ouyang, W Jin, S Tian, C Lu, RC Venu, G-L Wang, PJ Green, RA Wing, CR Buell, BC Meyers, and J Jiang. 2006. Genomic and genetic characterization of rice Cen3 reveals extensive transcription and evolutionary implications of complex centromere. *Plant Cell* 18:2123-2133.
- Zhang B, Z Lv, J Pang, Y Liu, X Guo, S Fu, J Li, Q Dong, H-J Wu, Z Gao, X-J Wang and F Han. 2013. Formation of a functional maize centromere after loss of centromeric sequences and gain of ectopic sequences. *Plant Cell* 25:1979-1989.
- Zhang XL, XX Li, JB Marshall, CX Zhong, and RK Dawe. 2005. Phosphoserines on maize CENTROMERIC HISTONE H3 and histone H3 demarcate the centromere and pericentromere during chromosome segregation. *Plant Cell*. 17:572-583.
- Zhao H, Z Zeng, DH Koo, BS Gill, JA Birchler, and J Jiang. 2017. Recurrent establishment of de novo centromeres in the pericentromeric region of maize chromosome 3. *Chromosome Research*. 25:299-311.

CHROMATIN

- Bintu B, LJ Mateo, J-H Su, NA Sinnott-Armstrong, M Parker, S Kimrot, K Yamaya, AL Boettinger, and X Zhuang. 2018. Super-resolution chromatin tracing reveals domains and cooperative interactions in single cells. *Science* 362(6413), eaau1783
- Brzeski J., J. Dyczkowski, S. Kaczanowski, P. Zielenkiewicz, and A. Jerzmanowski. 2003. Plant chromatin - learning from similarities and differences. *Adv. Bot. Res.* 40:107-141.
- Flavell R. 1980. The molecular characterization and organization of plant chromosomal sequences. *Annual Review of Plant Physiology*. 31: 569-596
- Ou HD, S Phan, TJ Derrinck, A Thor, MH Ellisman, and CC O'Shea. 2017. ChromEMT: Visualizing 3D chromatin structure and compaction in interphase and mitotic cells. *Science* 357 (6349), eaag0025
- Paul, A.-L., and R.J. Ferl. 1999. Higher-order chromatin structure: looping long molecules. *Plant Mol. Biol.* 41:713-720.
- Pikaard, C.S. 1998. Chromosome topology-organizing genes by loops and bounds. *Plant Cell* 10:1229-1232.
- Shi, JH, and RK Dawe. 2006. Partitioning of the maize epigenome by the number of methyl groups on histone H3 lysines 9 and 27. *Genetics* 173: 1571-1583.
- Sridhar A, SE Farr, G Portella, T Schlick, M Orozco and R Colleparado-Guevara. 2020. Emergence of chromatin hierarchical loops from protein disorder and nucleosome asymmetry. *PNAS* 117(13):7216-722

KARYOTYPE

- Chen R, W Song, X Li & Z An. 1994. Chromosome G-banding in plants by inducing with trypsin and urea. *Cell Research* 4:79-87
- Dapson R. 2007. The history, chemistry and modes of action of carmine and related dyes. *Biotechnic & Histochemistry* 82: 173-187
- Endo TR. 1988. Induction of chromosomal changes by a chromosome of *Aegilops cylindrica* in common wheat. *J. Hered.* 79: 366-370
- Fukui, K., and K. Iijima. 1991. Somatic chromosome map of rice by imaging methods. *Theor. Appl. Genet.* 81:859-596. (SB123.Z8)
- Gill BS, Friebe B, Endo TR (1991) Standard karyotype and nomenclature system for description of chromosome bands and structural aberrations in wheat (*Triticum aestivum*). *Genome* 34:830-839
- Gill BS & G Kimber. 1974. The Giemsa C-banded karyotype of rye. *PNAS* 71: 1247+1249
- Greilhuber J. 1973. Differential staining of plant chromosomes after hydrochloric acid treatments (Hy bands). *Öster. Bot. Z.* 122: 333-351.
- Greilhuber J (1973) Differentielle Heterochromatin farbung und Darstellung von Schraubenbau sowie Subchromatiden an pfl anzlichen somatischen Chromosomen in der Meta- und Anaphase. *Osterr Bot Z* 121:1-11
- Grif, V.G. 2000. Some aspects of plant karyology and karyosystematics. *Intl. Rev. Cytol.* 196:131-175.
- Heslop-Harrison, J.S. and T. Schwarzacher. 2011. Organization of the plant genome in chromosomes. *The Plant Journal* 66:18-33.
- Kamisugi, Y., and K. Fukui. 1990. Automatic karyotyping of plant chromosomes by imaging techniques. *BioTechniques* 8:290-295. (QH324.B56)
- Kato, A., JC Lamb, and JA Birchler. 2004. Chromosome painting using repetitive DNA sequences as probes for somatic chromosome identification in maize. *PNAS* 101: 13554-13559.
- Marks GE. 1983. Feulgen banding of heterochromatin in plant chromosomes. *J Cell Sci* 62: 171-176
- McClintock, B. 1929. Chromosome morphology in *Zea mays*. *Science*, **69**: 629
- Schweizer D. 1973. Differential staining of plant chromosomes with Giemsa. *Chromosoma*, 40:307-320.
- Young, N.D. and S.D. Tanksley. 1989. Restriction fragment length polymorphism maps and the concept of graphical genotypes. *Theor. Appl. Genet.* 77:95-101. (SB123.Z8)

KNOBS & CHROMOMERES

- Ananiev, E.V., R.L. Phillips, and H.W. Rines. 1998. A knob-associated tandem repeat in maize capable of forming fold-back DNA segments: are chromosome knobs megatransposons? *PNAS* 95:10785-10790.
- McClintock, B. 1929. Chromosome morphology in *Zea mays*. *Science*, **69**: 629
- Caixeta, E.T. and C.R. de Carvahlo. 2000. Chromomeric pattern of maize pachytene chromosomes after trypsin treatment.

Wilson E.B., 1896.- The Cell in Development and Inheritance. MacMillan Co., New York

NUCLEAR ARCHITECTURE

- Anamthawat-Jónsson, K. and J.S. Heslop-Harrison. 1990. Centromeres, telomeres and chromatin in the interphase nucleus of cereals. *Caryologia* 43:205-213. (QH1.C25)
- Bennett, M.D. 1987. Ordered disposition of parental genomes and individual chromosomes in reconstructed plant nuclei, and their implication. *Som. Cell Mol. Gen.* 13:463-466. (QH426.S6)
- Bennett, M.D. 1984. Nuclear architecture and its manipulation. In: *Gene Manipulation in Plant Improvement -- 16th Stadler Symposium*. J.P. Gustafson (ed) P. 469-502. (SB123.S86)
- Berr A and I Schubert. 2007. Interphase chromosome arrangement in *Arabidopsis thaliana* is similar in differentiated and meristematic tissues and shows a transient mirror symmetry after nuclear division. *Genetics* 176: 853-863.
- Cowan, R.C., P.M. Carlton, and W.Z. Cande. 2001. The polar arrangement of telomeres in interphase and meiosis. *Rabl organization and bouquet*. *Plant Physiol* 125: 532-538.
- Dong F and J Jiang. 1998. Non-Rabl patterns of centromere and telomere distribution in the interphase nuclei of plant cells. *Chrom Res* 6:551-558.
- Fengler K, SM Allen, B Li, and A Rafalski. 2007. Distribution of genes, recombination, and repetitive elements in the maize genome. *Crop Sci* 47(S2): S83
- Franz P, JH de Jong, M. Lysak, MR Castiglione and I Schubert. 2002. Interphase chromosomes in *Arabidopsis* are organized as well defined chromocenters from which euchromatin loops emanate. *PNAS*. 99: 14584-14589.
- Heslop-Harrison, J.S. 2000. Comparative genome organization in plants: From sequence and markers to chromatin and chromosomes. *Plant Cell*. 12:617-635.
- Heslop-Harrison, J.S. and M.D. Bennett. 1990. Nuclear architecture in plants. *Trends Genet.* 6:401-405
- Leitch, A.R., T. Schwarzacher, W. Mosgöller, M.D. Bennett, and J.S. Heslop-Harrison. 1991. Parental genomes are separated throughout the cell cycle in a hybrid plant. *Chromosoma* 101:206-213. (QH605.C557)
- Rabl C 1885 Über Zelltheilung. *Morphol Jahrb* 10: 214–330

NUCLEOLAR ORGANIZING REGION

- Heitz, E. 1931. Die Ursache der gesetzmassigen Zahl, Lage, Form, und Grosse pflanzenlichter Nukleolin. *Planta* 12:775-844. (QK1.P7131)
- Fultz D, A McKinlay, R Enganti, & CG Pikaard. 2023. Sequence and epigenetic landscapes of active and silent nucleolus organizer regions in *Arabidopsis*. *Science Advances*, 9, ead4509. Doi/10.1126/sciadv.ad4509
- Lin, 1955. Chromosomal control of nucleolar composition in maize. *Chromosoma* 7:340-370. (QH605.C557)
- McClintock, B. 1934. The relation of a particular chromosomal element in *Zea mays*. *Zeitschr. Zeillforsch. Mikr. Anat.* 21:294-328. (QH301.Z4)
- Phillips, R.L. 1978. Molecular cytogenetics of the nucleolus organizer region. In: *Maize Breeding and*

- Genetics, ed., D.B. Walden. John Wiley and Sons, N.Y. (SB191.M2M325)
- Phillips, R.L., R.A. Kleese, and S.S. Wang. 1971. The nucleolus organizer region of maize: chromosomal site of DNA complementary to ribosomal RNA. *Chromosoma* 36:79-88. (QH605.C557)
- Phillips, R.L. D.F. Weber, R.A. Kleese, and S.S. Wang. 1974. The nucleolus organizer region of maize: tests for ribosomal gene compensation or magnification. *Genetics* 77:285-297. (QH431.G328)
- Pikaard, C.S. 1999. Nucleolar dominance and silencing of transcription. 1999. *Trends Plant Sci.* 4:477-483.
- Passarge E. 1979. Emil Heitz and the concept of heterochromatin: longitudinal chromosome differentiation was recognized fifty years ago. *Am J Hum Genet* 31:106-115.

SEX CHROMOSOMES

- Blocka-Wandas M, E Sliwinska, A Grabowska-Joachimciak, K Musial, and AJ Joachimciak. 2007. Male gametophyte development and two different DNA classes of pollen grains in *Rumex acetosa* L., a plant with XX/XY₁Y₂ sex chromosome system and a female-biased sex ratio. *Sex Plant Reprod* DOI 10.1007/s00497-007-0053-9
- Charlesworth D. 2016. Plant sex chromosomes. *Annual Review of Plant Biology.* 67:397-420.
- Charlesworth, D., B. Charlesworth, and G. Marais. 2005. Steps in the evolution of heteromorphic sex chromosomes. *Heredity* 95: 118-128.
- Dellaporta S.L, & A. Calderon-Urrea. 1994. The sex determination process in maize. *Science* 266:1501-1505. (Q1.S415)
- Filatov, D.A. 2005. Evolutionary history of *Silene latifolia* sex chromosomes revealed by genetic mapping of four genes. *Genetics* 170:975-979.
- Fujita N, C Torii, K Ishii, W Aonuma, Y Shimizu, Y Kazama, T Abe, and S Kawano. 2012. Narrowing down the mapping of plant sex-determination regions using new Y-chromosome-specific markers and heavy-ion beam irradiation-induced Y-deletion mutants in *Silene latifolia*. *G3- Genes, Genomes Genetics* 2:271-278.
- Gschwend AR, Q Yu, EJ Tong, F Zeng, J Han, R VanBuren, R Aryal, D Charlesworth, PH Moore, AH Paterson, and R Ming. 2012. Rapid divergence and expansion of the X chromosome in papaya. *PNAS* 109:13716-13721.
- Howel EC, SJ Armstrong, and DA Filatov. 2011. Dynamic gene order on the *Silene latifolia* Y chromosome. *Chromosoma* 120:287-296.
- Ming R, A Bendahmane, and SS Renner. 2011. Sex chromosomes in land plants. *Annual Review of Plant Biology.* 62:485-514.
- Parker, J.S. and M.S. Clark. 1991. Dosage sex-chromosome systems in plants. *Plant Sci.* 80:79-92.
- Ruiz Rejón, C., M. Jamilena, M. Garrido Ramos, J.S. Parker, and M. Ruiz Rejón. 1994. Cytogenetic and molecular analysis of the multiple sex chromosome system of *Rumex acetosa*. *Heredity*, 72:209-215.
- Sousa, A., J. Fuchs, and S.S. Renner. 2013. Molecular cytogenetics (FISH, GISH) of *Coccinia grandis* : A ca. 3 myr-old species of Cucurbitaceae with the largest Y/autosome divergence in flowering plants. *Cytogenet Genome Res* 139:107-118.
- Westergaard, M. 1958. The mechanism of sex determination in dioecious flowering plants. *Adv. Gen.* 9:217-281. (QH.A244)

Williams, W. 1964. Mechanisms of sex determination. p. 235-260. In: Genetical principles and plant breeding. Blackwell Scientific Publications, Oxford. (QK981.W53)

TELOMERES

- Adams, S.P., I.J. Leitch, M.D. Bennett, and A.R. Leitch. 2000. *Aloe* L. - a second plant family without (TTTAGGG)_n telomeres. *Chromosoma*. 109:201-205
- Blackburn, E.H. 1991. Structure and function of telomeres. *Nature* 350:569-573. (Q1.N285)
- Burr B, FA Burr, EC Matz, & J Romero-Severson. 1992. *The Plant Cell*, 4: 953-960
- Gill BS & B Friebe. 1998. Plant cytogenetics at the dawn of the 21st century. *Current Opinion in Biotechnology*, 1: 109-115
- McClintock B. 1941. The stability of broken ends of chromosomes in *Zea mays*. *Genetics* 26: 234-282
- Muller HJ. 1938. The remaking of chromosomes. *Collect. Net. (Woods Hole)*, 13, 181, 183-195, 198
- Peska V & S Garcia. 2020. Origin, diversity, and evolution of telomere sequences in plants. *Front. Plant Sci.*, 11: 117
- Pitch U, J Fuchs & I Schubert. 1996. How do Alliaceae stabilize their chromosome ends in the absence of TTTAGGG sequences? *Chromosome Research*. 4: 207-21
- Schubert, I. 1992. Telomeric polymorphism in *Vicia faba*. *Biol. Zentralbl.* 111:164-168. (QK5.B6)
- Shakirov EV, J J-L Chen, and DE Shippen. 2022. Plant telomere biology: The green solution to the end-replication problem. *The Plant Cell*, 34(7): 2492-2504.
- Watson JM and K Riha. 2010. Comparative biology of telomeres: Where plants stand. *FEBS Letters*. 584: 3752-3759
- Zhong X-B, PF Fransz, J Wennekes-van Eden, MS Ramanna, A van Kammen, P Zabel & JH de Jong. 1998. FISH studies reveal the molecular and chromosomal organization of individual telomere domains in tomato. *The Plant Journal* 13: 507-517