

Supplementary Table S1. Diurnal floret opening time and optimum temperatures for floret opening of different plant species.

Plant species	Peak floret opening time (Time of day)	Optimum temperature for floret opening (°C)	Reference
<i>Setaria italica</i> var. <i>germanica</i>	5:00:00	25	Ref. 1
<i>Euryale ferox</i>	5:00:00		Ref. 2
<i>Lirianthe championii</i>	5:00:00		Ref. 3
<i>Agapanthus africanus</i>	5:00:00		Ref. 4
<i>Ipomoea obscura</i>	5:00:00		Ref. 5
<i>Triticum aestivum</i> (v1)	5:30:00	19	Ref. 6
<i>Luffa aegyptiaca</i>	5:30:00	28	Ref. 7, 8
<i>Eustoma grandiflorum</i>	5:30:00		Ref. 9
<i>Hedera helix</i>	5:30:00		Ref. 10
<i>Arachis hypogaea</i>	6:00:00	24.5	Ref. 11,12
<i>Taraxacum mongolicum</i>	6:00:00		Ref. 13
<i>Apium graveolens</i>	6:00:00	17.5	Ref. 8, 14
<i>Phaseolus vulgaris</i>	6:00:00	22	Ref. 8, 15
<i>Prunus armeniaca</i>	6:00:00		Ref. 16
<i>Lycium chinense</i>	6:00:00		Ref. 17
<i>Veratrum taliense</i>	6:30:00		Ref. 18
<i>Rhododendron siderophyllum</i>	6:30:00		Ref. 19
<i>Chamerion angustifolium</i>	6:30:00		Ref. 20
<i>Zea mays</i>	7:00:00	30.5	Ref. 21, 22
<i>Linum usitatissimum</i>	7:00:00	21	Ref. 23
<i>Syzygium samarangense</i>	7:00:00		Ref. 24
<i>Urena lobata</i>	7:00:00		Ref. 25
<i>Turnera ulmifolia</i>	7:00:00		Ref. 26
<i>Belamcanda chinensis</i>	7:00:00		Ref. 27
<i>Fagopyrum esculentum</i>	7:00:00	22	Ref. 28
<i>Pisum sativum</i>	7:00:00	20	Ref. 29
<i>Vigna angularis</i>	7:00:00	26	Ref. 30
<i>Amomum villosum</i>	7:00:00		Ref. 31
<i>Eulaliopsis binata</i>	7:00:00		Ref. 32
<i>Iris sanguinea</i>	7:00:00		Ref. 33
<i>Alcea rosea</i>	7:00:00		Ref. 34
<i>Corethroedendron scoparium</i>	7:00:00		Ref. 35
<i>Annona squamosa</i>	7:00:00	27.5	Ref. 36
<i>Hibiscus cannabinus</i>	7:15:00		Ref. 37

<i>Corchorus capsularis</i>	7:30:00		Ref. 38
<i>Nymphaea tetragona (v1)</i>	7:30:00		Ref. 39
<i>Desmodium tiffleurum</i>	7:30:00		Ref. 40
<i>Lamium barbatum</i>	8:00:00		Ref. 41
<i>Helianthus annuus</i>	8:00:00		Ref. 42
<i>Pachyrhizus erosus</i>	8:00:00		Ref. 43
<i>Panicum miliaceum</i>	8:00:00		Ref. 44
<i>Cornus officinalis</i>	8:00:00		Ref. 45
<i>Cucumis sativus</i>	8:00:00	27.5	Ref. 8, 46
<i>Capsicum annuum</i>	8:00:00	25	Ref. 47
<i>Adonis ramosa</i>	8:00:00		Ref. 48
<i>Hibiscus syriacus</i>	8:00:00		Ref. 49
<i>Tagetes erecta</i>	8:00:00		Ref. 50
<i>Kolkwitzia amabilis</i>	8:00:00		Ref. 51
<i>Glycine max</i>	8:00:00	26	Ref. 52
<i>Nicotiana tabacum</i>	8:00:00		Ref. 53
<i>Pleioblastus fortunei</i>	8:00:00		Ref. 54
<i>Abelmoschus esculentus</i>	8:00:00		Ref. 55
<i>Lonicera japonica</i>	8:00:00		Ref. 56
<i>Vitis vinifera</i>	8:00:00	23	Ref. 57
<i>Bambusa multiplex</i>	8:00:00		Ref. 58
<i>Robinia hispida var. kelseyi</i>	8:00:00		Ref. 59
<i>Brassica Napus L.</i>	8:00:00	16	Ref. 60
<i>Oryza sativa subsp. indica</i>	8:30:00	28.3	Ref. 61, 22
<i>Solanum melongena</i>	8:30:00	25	Ref. 8, 62
<i>Primula pseudodenticulata</i>	8:30:00		Ref. 63
<i>Hordeum vulgare (v1)</i>	9:00:00	20	Ref. 64
<i>Beta vulgaris</i>	9:00:00		Ref. 65
<i>Solanum lycopersicum</i>	9:00:00	25	Ref. 8, 66
<i>Coix lacryma-jobi</i>	9:00:00	27.5	Ref. 67
<i>Vitex negundo var. heterophylla</i>	9:00:00		Ref. 68
<i>Eleocharis dulcis</i>	9:00:00	25	Ref. 69
<i>Echeveria laui</i>	9:00:00		Ref. 70
<i>Phyllostachys violascens</i>	9:00:00		Ref. 71
<i>Glycyrrhiza uralensis</i>	10:00:00		Ref. 72
<i>Hexaploid Triticum (v1)</i>	10:00:00	21	Ref. 73
<i>Artemisia annua</i>	10:00:00		Ref. 74

<i>Portulaca oleracea</i>	10:00:00	22.5	Ref. 75
<i>Barnardia japonica</i>	10:00:00		Ref. 76
<i>Prunus persica</i> cv. <i>Compressa</i>	10:00:00	14	Ref. 77
<i>Prunus persica</i>	10:00:00		Ref. 78
<i>Camellia rosthorniana</i>	10:00:00		Ref. 79
<i>Canarium album</i>	10:00:00		Ref. 80
<i>Tulipa suaveolens</i>	10:30:00	20	Ref. 81
<i>Nymphaea tetragona</i> (v2)	11:00:00		Ref. 39
<i>Oryza sativa</i> subsp. <i>japonica</i>	11:30:00	24.3	Ref. 61, 22
<i>Passiflora caerulea</i>	11:30:00	26	Ref. 82
<i>Caragana liouana</i>	12:00:00		Ref. 83
<i>Cistanche deserticola</i>	12:00:00	20	Ref. 84
<i>Hedychium panzhuu</i>	12:00:00		Ref. 85
<i>Camellia japonica</i>	12:30:00	22.5	Ref. 86, 87
<i>Picea crassifolia</i>	13:00:00		Ref. 88
<i>Lilium brownii</i> var. <i>viridulum</i>	14:00:00		Ref. 89
<i>Hordeum vulgare</i> (v2)	15:00:00	20	Ref. 64
<i>Pueraria montana</i> var. <i>lobata</i>	15:00:00		Ref. 90
<i>Avena fatua</i>	15:20:00	22	Ref. 91
<i>Hemerocallis minor</i>	16:00:00	22.5	Ref. 92
<i>Mirabilis jalapa</i>	16:00:00	25	Ref. 93
<i>Iris dichotoma</i>	16:00:00	17	Ref. 94
<i>Hexaploid Triticum</i> (v2)	16:00:00	21	Ref. 73, 95
<i>Triticum aestivum</i> (v2)	17:00:00	20	Ref. 96
<i>Oenothera littoralis</i>	18:00:00	15	Ref. 97
<i>Gaura parviflora</i>	20:00:00		Ref. 98
<i>Epiphyllum oxypetalum</i>	20:00:00	20	Ref. 99
<i>Cestrum nocturnum</i>	20:00:00	25	Ref. 100
<i>Pennisetum glaucum</i>	20:00:00	33.75	Ref. 1, 101,102,103
<i>Hemerocallis fulva</i>	21:00:00	20	Ref. 104
<i>Hippophae rhamnoides</i>	21:00:00		Ref. 105
<i>Jasminum sambac</i>	22:00:00	20	Ref. 106
<i>Cereus grandiflorus</i>	22:00:00		Ref. 107
<i>Lagerstroemia speciosa</i>	2:00:00	22	Ref. 108
<i>Sorghum bicolor</i>	3:00:00	31	Ref. 109, 110,111,112,113
<i>Setaria sphacelata</i>	3:00:00	25	Ref. 114, 115

References

1. Jagadish, S. K. Heat stress during flowering in cereals—effects and adaptation strategies. *New Phytol.* **226**, 1567-1572 (2020). doi: 10.1111/nph.16429; PMID: 31943230
2. Wu, R. The flowering biological characteristics and flavonoid composition of *Euryale ferox*. Nanjing Agricultural University, MA thesis (2016).
3. Liu, K., Wang, Y., Zhang, S. Floral biology and pollen germination of *Magnolia Championii*. *Subtropical Plant Science* **42**, 293-296 (2013). doi: 10.3969/j.issn.1009-7791.2013.04.003
4. Sun, Y., et al. Flowering phenology and reproductive features of *Agapanthus praecox* ssp. *orientalis* 'Big Blue'. *Acta Botanica Boreali-Occidentalia Sinica*, **33**, 2423-2431 (2013). doi: 10.7606/j.issn.1000-4025.2013.12.2423
5. Yamada, T., Ichimura, K., Kanekatsu, M., van Doorn, W. G. Gene expression in opening and senescing petals of morning glory (*Ipomoea nil*) flowers. *Plant Cell Rep.* **26**, 823-835 (2007). doi: 10.1007/s00299-006-0285-4; PMID: 17221229
6. Ma, X., Zhao, J., Duan, S. The flowering habits of spring wheat in the Ningxia irrigation area. *Journal of Ningxia Agriculture and Forestry Science and Technology* **3**, 1-5 (1984).
7. Yang, Y., et al. Genetic analysis of three fruit traits and daily flowering time traits in Sponge Gourd. *Acta Agriculturae Universitatis Jiangxiensis* **36**, 1217-1222 (2014). doi: 10.13836/j.jjau.2014194
8. Shi, Y. Temperature requirements for several fruit vegetables. *Hebei Agriculture* **5**, 27-28 (2018).
9. Bai, J., Kawabata, S. Regulation of diurnal rhythms of flower opening and closure by light cycles, wavelength, and intensity in *Eustoma grandiflorum*. *The Horticulture Journal* **84**, 148-155 (2015). doi: 10.2503/hortj.MI-019
10. Sigmond, H. Über das Aufblühen von *Hedera helix* L. und Beeinflussung dieses Vorganges durch das Licht. *Beih. Bot. Zentr.* **46**, 68-92 (1929).
11. Awal, M. A., Ikeda, T. Controlling canopy formation, flowering, and yield in field-grown stands of peanut (*Arachis hypogaea* L.) with ambient and regulated soil temperature. *Field Crop. Res.* **81**, 121-132 (2003). doi: 10.1016/S0378-4290(02)00216-2
12. Wang, C., et al. Effects of temperature to seed emergence, seedling growth and anthesis of peanut. *Journal of Peanut Science* **4**, 7-11 (2003). doi: 10.3969/j.issn.1002-4093.2003.04.001
13. Zeng, L., Wu, L., He, H. Study on the flowering habits and trace elements in pollen of dandelion. *Chinese Wild Plant Resources* **20**, 37-38 (2001). doi: 10.3969/j.issn.1006-9690.2001.03.016
14. Zhu, X., et al. Observation of flowering habits in male sterile dual-purpose line 01-3AB of Celery. *Tianjin Agricultural Sciences* **17**, 104-107 (2011). doi: 10.3969/j.issn.1006-6500.2011.03.030
15. Jin, W., Li, H., Chen, J. Preliminary study on the flowering and pod-setting habits of snap beans in suburbs of Beijing. *Beijing Agricultural Sciences* **5**, 10-15 (2000).
16. Lin, C. Preliminary study on the flowering biological characteristics and pollination and fertilization of Dunhuang Da Li Guang Apricot. *Deciduous Fruits* **5**, 16-19 (2015). doi: 10.13855/j.cnki.lygs.2015.05.006. doi: 10.13855/j.cnki.lygs.2015.05.006
17. Luo, S., et al. Study on the flowering biological characteristics of Goji Berry in Southern Ningxia Area. *Acta Agriculturae Boreali-occidentalis Sinica* **20**, 150-156 (2011).
18. Yin, Z., et al. Study on the flowering characteristics and reproductive system of medicinal plant *Veratrum taliense*. *Journal of Chinese Medicinal Materials* **44**, 273-277 (2021). doi: 10.13863/j.issn1001-4454.2021.02.002
19. Qiu, J., et al. Flowering biology of *Rhododendron pulchrum*. *Horticulturae* **7**, 508 (2021). doi:

20. Liu, H., et al. Study on the flowering biological characteristics of wild *Chamerion angustifolium* in the Taibai Mountain Area. *Modern Agricultural Science and Technology* **8**, 132-133 (2020). doi: 10.3969/j.issn.1007-5739.2020.08.083
21. Chen, S., Wang, H., Li, H. Observation of flowering habits in several maize breeding materials. *Seed*, **23**, 57-59 (2004). doi: 10.3969/j.issn.1001-4705.2004.03.020
22. Sánchez B, Rasmussen A, Porter JR. Temperatures and the growth and development of maize and rice: a review. *Glob Chang Biol* **20**, 408-17 (2014). doi: 10.1111/gcb.12389.
23. Li, Y., Xie, S. Observation of the flowering habits of flax. *Chinese Journal of Oil Crop Sciences* **3**, 78-80 (1980).
24. Long, X., et al. Study on the flowering habits, pollen germination, and pollination characteristics of waxy apple. *Southwest China Journal of Agricultural Sciences* **33**, 607-612 (2020). doi: 10.16213/j.cnki.scjas.2020.3.021.
25. Ewusie, J.Y., Quaye, E.C. Diurnal periodicity in some common flowers. *New Phytol.* **78**, 479-485 (1977). doi.org/10.1111/j.1469-8137.1977.tb04854.x
26. Ball, N. A physiological investigation of the ephemeral flowers of *Turnera ulmifolia* L. var. *Elegans Urb.* *New Phytol.* **32**, 13-36 (1933).
27. Xu, N., et al. Researches on flowering characteristics and breeding system of *Belamcanda chinensis*. *Journal of Plant Resources and Environment* **28**, 91-99 (2019). doi: 10.3969/j.issn.1674-7895.2019.03.12
28. Ren, S., Wang, Z., Liu, A. The flowering habits of buckwheat. *Crops* **4**, 26-27 (1985).
29. Xu, Z., et al. Preliminary observations on the flowering and podding habits of peas. *Journal of Shanxi Agricultural Sciences* **4**, 8-13 (1964).
30. Jiang, L., et al. Observation of the flowering and podding habits of Adzuki beans. *Jiangsu Journal of Agricultural Sciences* **2**, 41-44 (1986).
31. Lin, M., Tian, H. Review of sexual reproduction characteristics of *Amomum villosum*. *Subtropical Plant Science* **44**, 83-86 (2015).
32. Lu, J., Zhang, J., Zhang, Y. The relationship between the flowering habits of *Eulaliopsis binata* and meteorological factors. *Hubei Agricultural Sciences* **1**, 52-55 (1995).
33. Shang, F., Wang, L. Biological characteristics of flowering and pollination of *Iris sanguinea*. *Pratacultural Science* **31**, 892-897 (2014). doi: 10.11829/j.issn.1001-0629.2013-0552
34. Li, Q., et al. Studies of the floral biology and breeding system of *Althaea rosea*. *Northern Horticulture* **9**, 95-98 (2011).
35. Pan, C., et al. Flowering characteristics and breeding system of *Corethroedendron scoparium* in the middle reaches of Heihe river. *Journal of Desert Research* **30**, 1099-1103 (2010).
36. Kishore, K., Shukla, A.K., Babu, N., Sarangi, D.N., Patanayak, S. Pollination biology of *Annona squamosa* L. (Annonaceae): evidence for pollination syndrome. *Sci. Horticulturae* **144**, 212-217 (2012). doi: 10.1016/j.scienta.2012.07.004
37. Zheng, Y. Observation of the flowering habits of Kenaf. *Plant Fiber Sciences in China* **3**, 14-15 (1998).
38. Zheng, Y. Evaluation of the genetics of flowering characteristics in Jute using early-maturing mutations. *Plant Fiber Sciences in China* **1**, 49 (1998).
39. Lai, M., et al. Diurnal variation of three kinds of water lily flowers in Guangzhou. *Subtropical Plant Science* **49**, 128-133 (2020). doi: 10.3969/j.issn.1009-7791.2020.02.008

40. Chang, X., et al. Study on characteristics of blooming and seed setting of *Desmodium tivolium*. *Pratacultural Science* **27**, 76-83 (2010). doi: 10.3969/j.issn.1001-0629.2010.08.013
41. Zhang, D., et al. Studies of floral biology, breeding characters of *Lamium barbatum*. *China Journal of Chinese Materia Medica* **36**, 2166-2169 (2011). PMID: 22097322
42. Huang, S., Su, R. Preliminary observations on the flowering habits of *Helianthus annuus*. *Acta Agriculturae Boreali-Sinica* **7**, 37-40 (1982).
43. Chen, Z., Zeng, X., Feng, S. Study on observation of habits of jicama flowering. *Modern Agricultural Science and Technology* **21**, 80-82 (2013). doi: 10.3969/j.issn.1007-5739.2013.21 047
44. Ventura, F., Vignudelli, M., Poggi, G. M., Negri, L., Dinelli, G. Phenological stages of *Proso millet* (*Panicum miliaceum* L.) encoded in BBCH scale. *Int. J. Biometeorol.* **64**, 1167-1181 (2020). doi: 10.1007/s00484-020-01891-3; PMID: 32179985
45. Dong, C., et al. Study of effects of ecological factor on flowering habit of *Cornus officinalis*. *Chinese Journal of Experimental Traditional Medical Formulae* **16**, 87-89 (2010). doi: 10.3969/j.issn.1005-9903.2010.08.028
46. Chen, L. Observation of cucumber flowering habits and pollination experiments. *Journal of Northern Agriculture* **2**, 29-31 (1988).
47. Yuan, Z. Preliminary observations on the flowering biology of Wangdu Chili Peppers. *China Vegetables* **4**, 28, 29-42 (1989).
48. He, M., et al. Flowering characteristics and breeding system of Adonis ramose. *Journal of Northeast Forestry University* **51**, 54-59 (2023). doi: 10.13759/j.cnki.dlxb.2023.03.011
49. Shao, C., Liu, L., Zhang, L. Flowering characteristics and insect visiting dynamics of two plants at the same flowering time in Zhen-shan Area. *Journal of Ludong University (Natural Science Edition)* **31**, 226-232 (2015). doi: 10.3969/j.issn.1673-8020.2015.03.009
50. He, Y., et al. Flowering characteristics and breeding system of *Tagetes erecta*. *Journal of Huazhong Agricultural University* **34**, 9-15 (2015). doi: 10.13300/j.cnki.hnlkxb.2015.02.024
51. Mao, S., et al. Flowering characteristics and pollination biology of rare and endangered *Kolkwitzia amabilis*. *Guihaia* **34**, 582-588 (2014).
52. Fehr, W. R. Soybean. *Hybridization of crop plants* 589-599 (1980).
53. Liao, X. Research on tobacco floral traits and flowering habit of different germ plasm resources. Hunan Agricultural University. Dissertation (2015).
54. Fu, H., et al. Studies on flowering biological characteristics of *Pleioblastus pygmaeus*. *Forest Research* **33**, 54-60 (2020). doi: 10.13275/j.cnki.lykxyj.2020.02.007
55. Chen, X., et al. Flowering habits and sexual hybridization techniques of *Abelmoschus esculentus*. *China Vegetables* **4**, 35-36 (1999).
56. Song, Z., Chen, W., Wang, J. Study on flowing habits and breeding characteristics of *Lonicera japonica* Thunb. *Shandong Agricultural Sciences* **44**, 32-34 (2012). doi: 10.14083/j.issn.1001-4942.2012.01.022
57. Liu, J. Observation of the inflorescence and flowering characteristics of Longyan Grapes. *Sino-Overseas Grapevine Wine* **2**, 5-9 (1988).
58. Lin, S., et al. A research on the flowering biological characteristics of *Bambusa multiplex* in Nanjing City. *Journal of Nanjing Forestry University (Natural Sciences Edition)* **39**, 52-56 (2015). doi: 10.3969/j.issn.1000-2006.2015.02.009
59. Guo, J., et al., Study on flowering and pollination characteristics of *Cassia Sophera*. *Journal of*

Northern Agriculture **3**, 45-46 (2012). doi: 10.3969/j.jssn.1007-0907.2012.03.023

60. Williams, I. H. The pollination of swede rape (*Brassica Napus* L.). *BeeWorld* **66**, 16-22 (1985).
61. Yan, W. H., Wang, L., Xing, Y. Z. Rice field planting and hybridization method. *Bio-101* e1010181 (2018). doi: 10.21769/BioProtoc.1010181
62. Paschapur, A., Bhat, S., Subbanna, A. R. N. S., Hedau, N., Mishra, K., Kant, L. Insect pollinators of eggplant (*Solanum melongena* L.) in the Indian Himalayas and their role in enhancement of fruit quality and yield. *Arthropod-Plant. Inte.* **16**, 349-360 (2022). doi: 10.1007/s11829-022-09902-3
63. Li, Y. F., et al. Flowering and pollination characteristics of *Primula pseudodenticulata*. *Subtropical Plant Science* **41**, 19-24 (2012). doi: 10.1002/ece3.3258
64. Fan, Y., Yang, Y. Preliminary Report on the flowering habits observation of barley (kert). *Journal of Qingdao Agricultural University (Natural Science)* **1**, 49-50 (1990).
65. Misra, V., Shrivastava, A. K. Understanding the sugar beet crop and its physiology. In Sugar Beet Cultivation, Management and Processing (pp. 11-25). Singapore: Springer *Nature Singapore* (2022). doi: 10.1007/978-981-19-2730-0_2
66. Atherton, J. G., Harris, G. P. Flowering. In The tomato crop: A scientific basis for improvement (pp. 167-200). *Dordrecht: Springer Netherlands* (1986).
67. Poddar, R., Jana, K., Kundu, C. K., Das, H. Job's Tears (coix) R. Poddar, K. Jana, Champak Kumar Kundu, H. Das. In Forage Crops of the World, Volume I: Major Forage Crops (pp. 111-120). *Apple Academic Press* (2018). doi: 10.1201/9781351167369
68. Sun, X. Floral biology characteristics and mating system of *Vitex negundo* var. *heterophylla* (Franch.) Rehder. Shandong University, Dissertation (2000). doi: 10.27272/d.cnki.gshdu.2020.002181
69. Ou, K., et al. Flowering habit of water chestnut and its fruiting characteristics after artificial supplementary pollination. *Journal of Southern Agriculture* **47**, 879-882 (2016). doi: 10.3969/j.jssn.2095-1191.2016.06.879
70. Dai, P., Tan, D. Floral biological characteristics of *Saussurea involucrata* in relation to ecological adaptation. *Chinese Journal of Plant Ecology* **35**, 56-65 (2011).
71. Lin, X., et al. Studies on floral biology of *Phyllostachys violascens*. *Journal of Forest and Environment* **30**, 333-337 (2010). doi: 10.13324/j.cnki.jfcf.2010.04.013
72. Gao, S., et al. Study on the flowering characteristics of *Glycyrrhiza uralensis*. *China Pharmacy* **27**, 1775-1777 (2016). doi: 10.6039/j.jssn.1001-0408.2016.13.13
73. Wei, Y. Ainiwaer, Cao, L. An observation of flowering habit and fest of stigma vitality for *Hexaploid Triticum*. *Journal of Shihezi University (Natural Science)* **1**, 17-21 (1992).
74. Sun, N., Li, L., Cui, G. Study on flowering characteristics and breeding system of *Artemisia annua*. *China Pharmacy* **24**, 2572-2575 (2013). doi: 10.6039/j.jssn.1001-0408.2013.27.28
75. Chen, G., Zhu, X., Chen, S. Investigate the biological characteristics of wild purslane. *Chinese Wild Plant Resources* **31**, 61-63 (2012). doi: 10.3969/j.jssn.1006-9690.2012.05.0016
76. Wang, H. Study on flowering biological characteristics of *Barnardia japonica*. Northeast Forestry University, Dissertation (2018).
77. Fei, Z., Lin, J. Observation on biological characteristics of gold peach blooming and bearing in high-altitude and cold area. *Science and Technology of Qinghai Agriculture and Forestry* **4**, 4-7 (2013). doi: 10.3969/j.jssn.1004-9967.2013.04.002
78. Byers, R. E., Costa, G., Vizzotto, G. Flower and fruit thinning of peach and other *Prunus*.

Horticultural Reviews-Westport Then New York **28**, 351-392 (2002). doi: 10.1002/9780470650851.ch7

79. Xu, L., et al. Study on floral biology of *Camellia rosthorniana* Hand. Mazz. *Seed* **30**, 45-47 (2011). doi: 10.16590/j.cnki.1001-4705.2011.09.069
80. Zambon, C. R., Silva, L. F. D. O. D., Pio, R., Bianchini, F. G., Oliveira, A. F. D. Storage of pollen and properties of olive stigma for breeding purposes. *Revista Ciência Agronômica* **49**, 291-297 (2018). doi: 10.5935/1806-6690.20180033
81. Tan, D., Wang, Y., Zhou, G. Pollination biology research of *Tulipa suaveolens*. Proceedings of the 2nd Academic Symposium on Plant Science and Development in the Western Region (2001).
82. Du, L., et al. Observations on flowering habits and floral organ morphology of eight germplasm materials in the *Genus Passion*. *Molecular Plant Breeding* **22**, 213-221 (2024). doi: 10.13271/j.mpb.022.000213
83. Chen, H., et al. Study on the flowering habit of *Caragana intermedia* Kuang. *Pratacultural Science* **23**, 51-56 (2006). doi: 10.3969/j.issn.1001-0629.2006.03.012
84. Chen, Q., et al. Observation of the flowering habits of *Cistanche deserticola*. *Journal of Chinese Medicinal Materials* **31**, 1302-1303 (2008). doi:10.3321/j.issn:1001-4454.2008.09.002
85. Wen, L. The Flowering phenology and development utilization of countermeasures of *Hedychium panzhuum*. Sichuan Agricultural University, MA thesis (2020).
86. Wei, H., Gao, C., Qiu, J., Long, L., Wang, B., Yang, L., Hu, Y. Flowering biological characteristics of *Camellia weiningensis* YK Li. *Hortscience* **56**, 1331-1339 (2021). doi: 10.21273/HORTSCI16024-21
87. Wang, J., Zhu, J. Effect of light and temperature on flowering. *Life World* **2**, 28-29 (1985).
88. Lv, D., Zhang, H. Flowering characters of *Picea crassifolia* clones and temporal-spatial variation of pollen flow in *Picea crassifolia* orchard. *Journal of Northeast Forestry University*, **44**, 68-73 (2016). doi: 10.13759/j.cnki.dlxb.20160118.019
89. Goldring, W. *The book of the lily* (Vol. **17**). J. Lane (1905).
90. Mo, Z., et al. Observation of flowering habit and correlation analysis of pollen activity at different flowering stages of *Pueraria lobata*. *Southwest China Journal of Agricultural Sciences* **35**, 278-284 (2022). doi:10.16213/j.cnki.scjas.2022.2.004
91. Ma, B. L., Zheng, Z., Ren, C. In Crop physiology case histories for major crops (pp. 222-248). *Academic Press* (2021).
92. Ren, Y., Gao, Y., Gao, S., Yuan, L., Wang, X., Zhang, Q. Genetic characteristics of circadian flowering rhythm in *Hemerocallis*. *Scientia Horticulturae* **250**, 19-26 (2019).
93. Chen, X., et al., Floral syndrome and breeding system of *Mirabilis jalapa* L. *Chinese Journal of Ecology* **10**, 1653-1658 (2008). doi: 10.1016/j.scienta.2019.01.052
94. Liu, R., Gao, Y. K., Fan, Z. P. Interspecific hybridization between *Iris dichotoma* and *Iris domestica*. In *XIII International Symposium on Flower Bulbs and Herbaceous Perennials* 1237 (pp. 67-72) (2019). doi: 10.17660/ActaHortic.2019.1237.8
95. Mi, J., Chen D., Zhang S. A Comparative Study on Flowering Characteristics of Wheat, Rye, and Triticale. *Journal of Beijing Agricultural University* **2**, 23-30 (1980).
96. Aiqing, S., Somayanda, I., Sebastian, S. V., Singh, K., Gill, K., Prasad, P. V. V., Jagadish, S. K. Heat stress during flowering affects time of day of flowering, seed set, and grain quality in spring wheat. *Crop Sci.* **58**, 380-392 (2018). doi: 10.2135/cropsci2017.04.0221
97. Pan, C., et al. A preliminary study on the *Oenothera littoralis* biological characteristics of blossom.

98. Guo, Y., et al. Blooming characteristics and breeding system of an invasive plant *Gaura parviflora*. *Chinese Journal of Applied Ecology* **34**, 1517-1524 (2023). doi: 10.13287/j.1001-9332.202306.003
99. Nolan, J. Queen of the night cactus (*Epiphyllum Oxypetalum*): Plant Care and Growing Guide, *Leafy Place* (2024).
100. Chen, G., et al. Cloning and expression analysis of *CnDXR* and *CnDXSI* in *Cestrum nocturnum*. *Molecular Plant Breeding* **19**, 7803-7810 (2021). doi: 10.13271/j.mpb.019.007803
101. Ong, C.K., Monteith, J.L. Response of pearl millet to light and temperature, *Field. Crops. Res.* **11**, 141-160 (1985). doi: 10.1016/0378-4290(85)90098-X
102. Djanaguiraman, M., Perumal, R., Ciampitti, I. A., Gupta, S. K., and Prasad, P. V. V. Quantifying pearl millet response to high temperature stress: thresholds, sensitive stages, genetic variability and relative sensitivity of pollen and pistil. *Plant, cell & environment* **41(5)**, 993-1007 (2018).
103. Singh, P., Boote, K. J., Kadiyala, M. D. M., Nedumaran, S., Gupta, S. K., Srinivas, K., and Bantilan, M. C. S. An assessment of yield gains under climate change due to genetic modification of pearl millet. *Science of the Total Environment* **601**, 1226-1237 (2017).
104. Jia, H., et al. Opening and closing time of F1 hybrids of daylily (*Hemerocallis fulva*) and nightlily (*Hemerocallis citrina*). *Journal of Northeast Forestry University* **42**, 100-104 (2014). doi: 10.13759/j.cnki.dlxb.2014.07.024
105. van Doorn, W. G., Van Meeteren, U. Flower opening and closure: a review. *J. Exp. Bot.* **54**, 1801-1812 (2003). doi: 10.1093/jxb/erg213; PMID: 12869518
106. Liu, X. The flowering habits of jasmine and the scenting technology of jasmine tea. *Journal of Tea Communication* **2**, 13-17 (1982).
107. Schmucker, T. Die Bedingungen des nächtlichen Blühens von *Cereus grandiflorus*. *Zeitschrift für wissenschaftliche Biologie. Abteilung E: Planta* **549-559** (1928). doi: 10.1007/BF01981047
108. Yuan, J. Studies on reproductive biology of *Lagerstroemia speciosa*. Guangxi University, MA thesis (2018).
109. Sharma, H. C., Hariprasad, K. V. Flowering events in sorghum in relation to expression of resistance to sorghum midge, *Stenodiplosis sorghicola*. *Euphytica* **127**, 411-419 (2002). doi: 10.1023/A:1020387322539
110. Prasad, P. V., Pisipati, S. R., Mutava, R. N., and Tuinstra, M. R.. Sensitivity of grain sorghum to high temperature stress during reproductive development. *Crop science* **48(5)**, 1911-1917 (2008).
111. Djanaguiraman, M., Perumal, R., Jagadish, S. V. K., Ciampitti, I. A., Welti, R., and Prasad, P. V. V. Sensitivity of sorghum pollen and pistil to high-temperature stress. *Plant, Cell and Environment* **41(5)**, 1065-1082 (2018).
112. Nguyen, C. T., Singh, V., van Oosterom, E. J., Chapman, S. C., Jordan, D. R., and Hammer, G. L. Genetic variability in high temperature effects on seed-set in sorghum. *Functional Plant Biology* **40(5)**, 439-448 (2013).
113. Djanaguiraman, M., Prasad, P. V., Murugan, M., Perumal, R., & Reddy, U. K. Physiological differences among sorghum (*Sorghum bicolor* L. Moench) genotypes under high temperature stress. *Environmental and Experimental Botany* **100**, 43-54.(2014).
114. Sheng, Z., Jiaxiang, K., Meifen, H. Flowering behavior of *Setaria sphacelata* Stapf cv. 'Narok'. *Grassland of China* **3**, 27-29 (1998). doi: 10.3969/j.issn.1673-5021.1998.03.007
115. Mingkun, Z., Fei, Y. Excellent Warm-Season Forage Grass—*Setaria sphacelata*. *Guizhou Journal of Animal Husbandry and Veterinary Medicine* **40**, 59-60 (2016).