

Readings

Plant Physiological Ecology

Spring 2021

****Please contact Dr. Smith if you have trouble accessing the articles****

****Note: this file will be updated to account for changes to the schedule****

Week of January 16

Classical Literature Tuesday - Jan 17

Chapin FS. 2003. Effects of Plant Traits on Ecosystem and Regional Processes: a Conceptual Framework for Predicting the Consequences of Global Change. *Annals of Botany* 91: 455–463.

<https://academic.oup.com/aob/article/91/4/455/213070>

Recent Literature Thursday - Jan 19

Reich PB. 2014. The world-wide ‘fast–slow’ plant economics spectrum: a traits manifesto. *Journal of Ecology* 102: 275–301.

<https://besjournals.onlinelibrary.wiley.com/doi/10.1111/1365-2745.12211>

Week of January 23

Classical Literature Tuesday - Jan 24

Von Caemmerer S, Farquhar GD. 1981. Some relationships between the biochemistry of photosynthesis and the gas exchange of leaves. *Planta* 153: 376–387.

<https://link.springer.com/article/10.1007/bf00384257>

Recent Literature Thursday - Jan 26

Wang, Z., Wang, C., Liu, S. (2022). Elevated CO₂ alleviates adverse effects of drought on plant water relations and photosynthesis: A global meta-analysis. *Journal of Ecology*, 110(12), 2836-2849.

<https://besjournals.onlinelibrary.wiley.com/doi/full/10.1111/1365-2745.13988>

Week of January 30

Classical Literature Tuesday - Jan 31

Boardman NK. 1977. Comparative photosynthesis of sun and shade plants. *Annual review of plant physiology* 28: 355–377.

<https://www.annualreviews.org/doi/10.1146/annurev.pp.28.060177.002035>

Recent Literature Thursday - Feb 2

Paik I, Huq E. 2019. Plant photoreceptors: Multi-functional sensory proteins and their signaling networks. *Seminars in Cell Developmental Biology* 92, 114–121.

<https://www.sciencedirect.com/science/article/pii/S1084952117305748>

Week of February 6

Classical Literature Tuesday - Feb 7

Atkin OK and Tjoelker M. 2003. Thermal acclimation and the dynamic response of plant respiration to temperature. *Trends in Plant Science* 8: 343–351.

<https://www.sciencedirect.com/science/article/pii/S1360138503001365>

Recent Literature Thursday - Feb 9

Posch BC, Kariyawasam BC, Bramley H, Coast O, Richards RA, Reynolds MP, Trethowan R, Atkin OK. 2019. Exploring high temperature responses of photosynthesis and respiration to improve heat tolerance in wheat. *Journal of Experimental Botany* 70, 5051–5069.

<https://academic.oup.com/jxb/article/70/19/5051/5506706>

Week of February 13

Classical Literature Tuesday - Feb 14

Chaves MM, Pereira JS, Maroco J, et al. 2002. How Plants Cope with Water Stress in the Field? Photosynthesis and Growth. *Annals of Botany* 89: 907–916.

<https://academic.oup.com/aob/article/89/7/907/151103>

Recent Literature Thursday - Feb 16

Zhao J, Feng H, Xu T, Xiao J, Guerrieri R, Liu S, Wu X, He X, He X. 2021. Physiological and environmental control on ecosystem water use efficiency in response to drought across the northern hemisphere. *Science of The Total Environment* 758, 143599.

<https://www.sciencedirect.com/science/article/pii/S0048969720371308>

Week of February 20

NO CLASS

Week of February 27

Classical Literature Tuesday - Feb 28

Bazzaz FA. 1990. The response of natural ecosystems to the rising global CO₂ levels. *Annual review of ecology and systematics* 21: 167–196.

<https://www.annualreviews.org/doi/10.1146/annurev.es.21.110190.001123>

Recent Literature Thursday - Mar 2

O'Connor RC, Blumenthal DM, Ocheltree TW, Nippert JB. 2022. Elevated CO₂ counteracts effects of water stress on woody rangeland-encroaching species. *Tree Physiology*, tpac150.

<https://academic.oup.com/treephys/advance-article/doi/10.1093/treephys/tpac150/6966044>

Week of March 6

Classical Literature Tuesday - Mar 7

LeBauer, D. S. and Treseder, K. K. (2008), Nitrogen limitation of net primary productivity in terrestrial ecosystems is globally distributed. *Ecology*, 89: 371-379.

<https://esajournals.onlinelibrary.wiley.com/doi/full/10.1890/06-2057.1>

Recent Literature Thursday - Mar 8

Yu Q, Ni X, Cheng X, Ma S, Tian D, Zhu B, Zhu J, Ji C, Tang Z, Fang J. 2022. Foliar phosphorus allocation and photosynthesis reveal plants' adaptive strategies to phosphorus limitation in tropical forests at different successional stages. *Science of The Total Environment* 846, 157456.

<https://www.sciencedirect.com/science/article/pii/S0048969722045545>

Week of March 13

NO CLASS.

Week of March 20

Classical Literature Tuesday - Mar 21

Mooney HA. 1972. The carbon balance of plants. *Annual review of ecology and systematics* 3: 315–346.

<https://www.annualreviews.org/doi/10.1146/annurev.es.03.110172.001531>

Recent Literature Thursday - Mar 23

Lee BR, Ibáñez I. 2021. Spring phenological escape is critical for the survival of temperate tree seedlings. *Functional Ecology* 35, 1848–1861.

<https://besjournals.onlinelibrary.wiley.com/doi/10.1111/1365-2435.13821>

Week of March 27

PRESENTATION WEEK. NO READINGS.

Week of April 3

NO CLASS.

Week of April 10

Classical Literature Tuesday - Apr 11

Grime JP. 1977. Evidence for the Existence of Three Primary Strategies in Plants and Its Relevance to Ecological and Evolutionary Theory. *The American Naturalist* 111: 1169–1194.

<https://www.jstor.org/stable/2460262>

Classical Literature Tuesday - Apr 13

Lekberg Y, Bever JD, Bunn RA, Callaway RM, Hart MM, Kivlin SN, Klironomos J, Larkin BG, Maron JL, Reinhart KO. 2018. Relative importance of competition and plant–soil feedback, their synergy, context dependency and implications for coexistence. *Ecology Letters* 21, 1268–1281.

<https://onlinelibrary.wiley.com/doi/full/10.1111/ele.13093>

Week of April 17

PRESENTATION WEEK. NO READINGS.

Week of April 24

NO CLASS.

Week of May 1

PRESENTATION WEEK. NO READINGS.