

## CURRICULUM VITAE

Jacob Weiner

### Address

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### Education

University of Oregon, Department of Biology, Ph.D., 1978  
University of Michigan, Department of Botany, M.S., 1974  
Antioch College, B.A., 1970

### Positions Held

University of Copenhagen, Department of Plant and Environmental Sciences, Professor, 1998-,  
Associate Professor, 1996-98  
Beijing Normal University, Adjunct Professor, 2014-  
Lanzhou University, Adjunct Professor, 2012-  
National Center for Ecological Analysis and Synthesis, Sabbatical Fellow, 2007-08  
Swarthmore College, Department of Biology, Professor, 1992-96, Chairman 1990-92  
Associate Professor, 1984-92, Assistant Professor, 1978-84  
Harvard University, Department of Organismal and Evolutionary Biology, Bullard Fellow, 1994-95  
Research Center Jülich, Working Group in Theoretical Ecology, Visiting Scientist, 1992-93  
University of Basel, Botanical Institute, Visiting Scientist, 1990  
Imperial College at Silwood Park, Department of Biology, Visiting Researcher, 1989-90  
Smithsonian Environmental Research Center, Postdoctoral Fellow, 1985  
University College of North Wales, School of Plant Biology, Visiting Researcher, 1981-82  
Harvard University, Gray Herbarium, Visiting Scientist, 1981  
Eastern Oregon State College, Lily White Field Station, Instructor, 1977  
City of New York, Department of Air Pollution Control, Research Assistant, 1970-71

### Professional Societies

Botanical Society of America  
British Ecological Society  
Ecological Society of America  
European Weed Research Society  
International Association for Vegetation Science

### Grants and Awards

Distinguished Fellow of the Botanical Society of America, 2016  
ISI Highly Cited Researcher ([www.ISIhighlycited.com](http://www.ISIhighlycited.com)), original member, 2002-  
Danish Natural Science Research Council, "Constant Final Yield of Plant Communities", 2015-2018  
EU 7th Framework Program Collaborative Project, "Optimising Subsidiary Crop Applications  
in Rotations", 2012-2016.  
Knight's Cross of the Order of the Dannebrog, 2011  
University of Copenhagen, Program of Excellence, "Evolutionary Agroecology: Developing High  
Density, Communal Crop Plants for Weed Suppression and Increased Sustainability", 2008-2013  
National Center for Ecological Analysis and Synthesis, Sabbatical Fellowship, 2007-2008  
Danish Environmental Protection Agency, "Increasing the Suppression of Weeds by Cereal Crops  
Through Increased Crop Spatial Uniformity and Density", 2007-2009.  
Danish Natural Science Research Council, "The Allometry of Reproductive Allocation in Annual  
Plants", 2005-2009  
Danish Agricultural Research Council, "Population Density, Spatial Structure and Weed Suppression  
by Cereal Crops", 2001-2004.  
Danish Strategic Environmental Research Program, "Environmental Consequences of Transgenic  
Disease Resistant Crop Plants" Sub-Project: "Disease and Plant Invasions", 1997-2000  
Roche Research Foundation, Switzerland - Research Grant, 1995-97  
Harvard University, Bullard Fellowship, 1994-95  
German Academic Exchange Service (DAAD) - German Study Grant, 1992  
Fulbright Scholar Program - Grant-in-Aid Award, 1989-90

U.S. National Science Foundation, Research Opportunity Award, 1990  
 U.S. National Science Foundation, US-UK Cooperative Sciences Program -  
 "Competition, Herbivory and Size Variability in Plant Populations," 1989-90  
 Swarthmore College - Lang Faculty Fellowship, 1989-90  
 U.S. National Science Foundation, Program in Population Biology and Physiological Ecology  
 "Size Distributions, Competition and Allometry in *Impatiens pallida* Populations", 1986-89  
 Research Corporation - Cottrell College Science Grant, 1984-85  
 Smithsonian Institution Postdoctoral Fellowship, 1984-85  
 Swarthmore College - Mellon Faculty Fellowship, 1981-82  
 U.S. National Science Foundation, Program in Population Biology,  
 Research Opportunity Award, 1981  
 U.S. National Institutes of Health, Systems Biology Training Grant, 1977-78  
 Sigma Xi, Grant-in-Aid of Research, 1977

### Research Interests

Several areas of ecology and botany, including

- plant-plant interactions
- plant growth and resource allocation
- individual variation within plant populations
- crop-weed interactions
- application of ecological and evolutionary theory to plant production systems

### Publication Statistics

111 publications published /in press in international peer-reviewed journals  
 (12 sole author, 21 first author, 19 second of 2 authors)  
 9 book chapters/invited papers (6 single author)  
 8 manuscripts submitted or in revision  
 4 chapters in conference proceedings, 2 book reviews, 6 popular articles, 1 government agency report,  
 45 published abstracts  
 Over 7000 citations in ISI Core Collection of international journals, H-Index = 43 (ISI WoS database)  
 Over 12,000 total citations, H-Index = 51 (Google Scholar)  
 Individual (original) H-index, based on citations per author = 29 (ISI), 35 (Google Scholar)

### Symposia, Conferences, Seminars and Workshops

24 invited symposia at international conferences (with published abstracts)	1983-
24 contributed papers at international conferences (with published abstracts)	1979-
over 120 invited seminars at universities and research institutes	1980-
numerous invited international workshops	1982-

### Professional Service

Chairman, Scientific Council, Center for Ecological Research, Polish Academy of Sciences	2007 - 2013
Associate Editor, Ecology	2004 -
Associate Editor, Journal of Ecology	1996 - 2006
External examiner for numerous Ph.D. thesis	1990 -
Manuscript reviewer for over 60 international scientific journals	1979 -
Proposal reviewer for granting agencies in the U.S., Canada and Europe	1979 -

### Courses taught

Ecology, Plant Ecology, Systematic Botany, Evolutionary Biology, General Biology, General Botany,  
 Environmental Science, Sustainable Agriculture, Ecosystems Ecology, Applied Ecology, Climate  
 Change  
 Tutorials in Population Genetics, Biostatistics, Environmental Studies, Forest Ecology, Tropical  
 Ecology  
 Short courses in Plant Population Ecology, Plant Competition, Writing and Publishing a Scientific  
 Paper in Ecology

### **University Service**

#### University of Copenhagen / Royal Veterinary and Agricultural University (1998-)

Copenhagen Plant Science Center Lecture, 2015  
Department Research Committee, 1999-2003, 2007, 2010-12, 2015-  
Theme Leader, Copenhagen Plant Science Center, 2011 - 2014  
Research Farm and Greenhouse Open House, 2007, 2009, 2011, 2013, 2015  
JuniorForsker Cafe, 2008  
University Green Services Committees, 2005-2010  
Board of the Center for Ecology and Environment, 1998-2002  
Ecology Committee for Forestry Studies, 1998-99  
Numerous academic search and evaluation committees, 1999-  
Chairman for numerous Ph.D. evaluation committees

#### Swarthmore College (1978-96)

Chairman, Department of Biology, 1990-92  
Chairman, Environmental Studies Program, 1991-96  
Membership on twenty-seven College committees, 1979-96  
Curator, Swarthmore College Herbarium, 1978-96  
College-wide lectures/presentations, 1980, 1982, 1986, 1991, 1996

Publications  
Jacob Weiner

Articles in international reviewed journals

- Weiner, J. 2017. Applying plant ecological knowledge to increase agricultural sustainability. Journal of Ecology **105**, in press.
- Yang, Y.-B., Weiner, J., Wang, G. and Ren, Z.-W. 2017. Convergence of community composition during secondary succession on Zokor rodent mounds on the Tibetan Plateau. Journal of Plant Ecology **10**, in press.
- Cai, J., Weiner, J., Wang, R., Luo, W., Zhang, Y., Liu, H., Xu, Z., Li, H., Zhang, Y., Jiang, Y. 2017. Effects of nitrogen and water addition on trace element stoichiometry in five grassland species. Journal of Plant Research **130**, in press.
- Husáková, I., Weiner, J. and Münzbergová, Z. 2017. Species traits and shoot-root biomass allocation in 20 dry-grassland species. Journal of Plant Ecology, in press
- Damgaard, C.F. and Weiner, J. 2017. It's about time - plant competition in macroecology. Trends in Ecology and Evolution **32**, 86-8.
- Rasmussen, C.R. and Weiner, J. 2017. Modelling the effect of size-asymmetric competition on size inequality: Simple models with two plants. Ecological Modelling **343**, 101-108.
- Dueholm, B., Bruce, D., Weinstein, P., Semple, S., Møller, B.L. and Weiner, J. 2017. Spatial analysis of root hemiparasitic shrubs and their hosts: a search for spatial signatures of above- and belowground interactions. Plant Ecology **218**, in press.
- Wang, S., Callaway, R.M., Zhou, D.-W. and Weiner, J. 2017. Experience of inundation or drought alters the responses of plants to subsequent water conditions. Journal of Ecology **105**, 176-187.
- Luo, X., Mazer, S.J., Guo, H., Zhang, N., Weiner, J. and Hu, S. 2016. Higher Nitrogen:Phosphorous supply ratio increases proportional investment in above-ground biomass in five alpine plant species. Ecology and Evolution **6**, 8881-8892.
- DeMalach, N., Zaadi, E., Weiner, J. and Kadmon, R. 2016. Size asymmetry of resource competition and the structure of plant communities. Journal of Ecology **104**, 899-910.
- Wang, Y., Li, L., Zhou, D. and Weiner, J. 2016. The allometry of reproductive allocation in *Chtoris virgata* populations in response to simulated atmospheric nitrogen deposition. Basic and Applied Ecology **17**, 388-395.
- Li, L., Weiner, J., Wang, Y., Wang, S. and Zhou, D.-W. 2016. Yield-density relationships of above- and belowground organs in *Allium cepa* var. *aggregatum* populations. Plant Ecology **217**, 913-922.
- Pazzagli, P.T., Weiner, J. and Liu, F. 2016. Effects of elevated CO<sub>2</sub> on leaf gas exchange, plant water relations, and water use efficiency of two tomato cultivars grown under different irrigation regimes. Agricultural Water Management **169**, 26-33.
- Chu C.-J., Bartlett, M., Wang, Y.-S., He, F.L., Weiner, J. and Sack, L. 2016. Does climate directly influence NPP globally? Global Change Biology **22**, 12-24.
- Bjørn, M.C., Weiner, J. and Ørsgaard, M. 2016. Is colourful self-sustaining forb vegetation mere fantasy? Urban Forestry and Urban Greening **16**, 75-79.
- Jacobsen, S.-E., Sørensen, M., Pedersen, S.M. and Weiner, J. 2015. Using our agrobiodiversity: Plant based solutions to feed the world. Agronomy for Sustainable Development **35**, 1217-1235.
- Yang, R., Guo, F., Zan, S., Zhou, G., Wille, W., Tang, J., Chen, X. and Weiner, J. 2015. Copper tolerant *Elsholtzia splendens* facilitates *Commelina communis* on a copper mine spoil. Plant and Soil **397**, 201-211.

- Zhang, W.-P., Liu, G.-C., Sun, J.-H., Zhang, L.-Z., Weiner, J., and Li, L. 2015. Dynamics of interspecific interactions in wheat/maize and barley/maize intercropping. Plant and Soil **397**, 227-238.
- Wang, P., Weiner, J., Cahill, J.F., Zhou, D., Song, Y. and Sheng, L. 2014. Shoot competition, root competition and reproductive allocation in *Chenopodium acuminatum*. Journal of Ecology **102**, 1688-1696.
- Marín, C. and Weiner, J. 2014. Effects of density and sowing pattern on weed suppression and grain yield in three varieties of maize under high weed pressure. Weed Research **54**, 467-474.
- Fibich, P., Lepš, J. and Weiner, J. 2014. Individual variability and mortality required for constant final yield in simulated plant populations. Theoretical Ecology **7**, 263-271.
- Hu, F.-Q., Mou, P.P., Weiner, J. and Li, S. 2014. Whole plant - local nutrient contrasts control root growth and death in *Ailanthus altissima* (Simaroubaceae). American Journal of Botany **101**, 812-819.
- Yu, Z., Zhang, Q., Chen, W., Yang, H., Tang, J., Weiner, J. and Chen, X. 2014. Salt tolerance and stress level affect plant biomass-density relationships and neighbor effects. Acta Oecologica **58**, 1-4.
- Kiær, L.P., Weisbach, A.N. and Weiner, J. 2013. Root and shoot competition: A meta-analysis. Journal of Ecology **101**, 1298-1312.
- Jacobsen, S.-E., Sørensen, M., Pedersen, S.M. and Weiner, J. 2013. Feeding the world: Genetically modified crops versus agricultural biodiversity. Agronomy for Sustainable Development **33**, 651-662.
- Pan, X.-Y., Weiner, J. and Li, B. 2013. Size-symmetric competition in a shade-tolerant invasive plant. Journal of Systematics and Evolution **51**, 318-325.
- Lin, Y., Berger, U., Grimm, V., Huth, F. and Weiner, J. 2013. Plant interactions alter the predictions of metabolic scaling theory. PLOS ONE **8**, e57612.
- Li, L., Weiner, J., Zhou, D., Huang, Y. and Sheng, L. 2013. Initial density affects biomass - density and allometric relationships in self-thinning populations of *Fagopyrum esculentum*. Journal of Ecology **101**, 475-483.
- Qin, X.-L., Weiner, J., Qi, L., Xiong, Y.-C. and Li, F.-M. 2013. Allometric analysis of the effects of density on reproductive allocation and Harvest Index in 6 varieties of wheat (*Triticum*). Field Crops Research **144**, 162-166.
- Yu, Z., Zhang, Q., Yang, H., Tang, J., Weiner, J. and Chen, X. 2012. The effects of salt stress and mycorrhiza on neighbour effects and self-thinning in *Medicago sativa*. Basic and Applied Ecology **13**, 673-680.
- Olsen, J.M., Griepentrog, H.-W., Nielsen, J. and Weiner, J. 2012. How important are crop spatial pattern and density for weed suppression by spring wheat? Weed Science **60**, 501-509.
- Weiner, J. and Xiao, S. 2012. Variation in the degree of specialization can maintain local diversity in model communities. Theoretical Ecology **5**, 161-166.
- Guo, H., Weiner, J., Mazer, S.J., Zhao, Z., Du, G. and Li, B. 2012. Reproductive allometry in *Pedicularis* species changes with elevation. Journal of Ecology **100**, 452-458.
- Zhang, Q., Zhang, L., Weiner, J., Tang, J. and Chen, X. 2011. Arbuscular mycorrhizal fungi alter plant allometry and biomass-density relationships. Annals of Botany **107**, 407-412.
- Weiner, J. and Freckleton, R. 2010. Constant final yield. Annual Review of Ecology, Evolution and Systematics **41**, 173-192.
- Weiner, J., Andersen, S.B., Wille, W.K.-M., Griepentrog, H.-W. and Olsen, J.M. 2010. Evolutionary Agroecology - the potential for cooperative, high density, weed suppressing cereals. Evolutionary Applications **3**, 473-479. (listed on Faculty of 1000)

- Chu, C.-J., Weiner, J., Maestre, F.T., Wang, Y.-S., Morris, E.C., Xiao, S., Yuan, J.-L., Du, G.D. and Wang, G. 2010. Effects of positive interactions, size-symmetry of competition and abiotic stress on self thinning in simulated plant populations. Annals of Botany **106**, 647-652.
- Weiner, J., Campbell, L.G., Pino, J. and Echarte L. 2009. The allometry of reproduction within plant populations. Journal of Ecology **97**, 1220-1233. (listed on Faculty of 1000)
- Chu, C.-J., Weiner, J., Maestre, F.T., Xiao, S., Wang, Y.-S., Li, Q., Yuan, J.-L., Zhao, L.-Q., Ren, Z.-W. and Wang, G. 2009. Positive interactions can increase size inequality in plant populations. Journal of Ecology **97**, 1401-1407.
- Weiner, J., Rosenmeier, L., Massoni, E.S., Vera, J.N., Hernández Plaza, E. and Sebastià, M.T. 2009. Is reproductive allocation in *Senecio vulgaris* plastic? Botany **87**, 475-481.
- Wyszomirski, T. and Weiner, J. 2009. Variation in local density results in a positive correlation between plant neighbor sizes. American Naturalist **173**, 705-708.
- Erneberg, M., Strandberg, B., Strandberg, M., Jensen, B.D. and Weiner, J. 2008. Effects of soil disturbance and disease on growth and reproduction of *Lolium perenne* (Poaceae) introduced to semi-natural grasslands. Polish Journal of Ecology **56**, 593-604.
- Chu, C.-J., Maestre, F.T., Xiao, S., Weiner, J., Wang, Y.-S., Duan, Z.-H. and Wang, G. 2008. The balance between facilitation and resource competition determines biomass-density relationships in plant populations. Ecology Letters **11**, 1189-1197.
- Damgaard, C. and Weiner, J. 2008. Modelling the growth of individuals in crowded plant populations. Journal of Plant Ecology **1**, 111-116.
- Kristensen, L., Olsen, J. and Weiner, J. 2008. Crop density, sowing pattern and nitrogen fertilization effects on weed suppression and yield in spring wheat. Weed Science **56**, 97-102.
- Andersen, M.K., Hauggaard-Nielsen, H., Weiner, J. and Jensen, E.S. 2007. Evaluating competitive dynamics in two and three component intercrops. Journal of Applied Ecology **44**, 545-551.
- Olsen, J. and Weiner, J. 2007. The influence of *Triticum aestivum* density, sowing pattern and nitrogen fertilization on leaf area index and its spatial variation. Basic and Applied Ecology **8**, 252-257.
- Weiner, J. and Damgaard, C. 2006. Size-asymmetric competition and size-asymmetric growth in a spatially-explicit zone-of-influence model. Ecological Research **21**, 707-712.
- Olsen, J., Kristensen, L. and Weiner, J. 2006. Influence of sowing density and spatial pattern of spring wheat (*Triticum aestivum*) on suppression of different weed species. Weed Biology and Management **6**, 165-173.
- Thorsted, M.D., Weiner, J. and Olesen, J.E. 2006. Above-and below-ground competition between intercropped winter wheat *Triticum aestivum* and white clover *Trifolium repens*. Journal of Applied Ecology **43**, 237-245.
- Ramseier, D. and Weiner, J. 2006. Competitive effect is a linear function of neighbour biomass in experimental populations of *Kochia scoparia*. Journal of Ecology **94**, 305-309.
- Kristensen, L., Olsen, J., Weiner, J., Griepentrog, H.-W. and Nørremark, M. 2006. Describing the spatial pattern of crop plants with special reference to crop-weed competition studies. Field Crops Research **96**, 207-215.
- Thorsted, M.D., Olesen, J.E. and Weiner, J. 2006. Width of clover strips and wheat rows influence grain yield in winter wheat/white clover intercropping. Field Crops Research **95**, 280-290.
- Nord-Larsen, T., Damgaard, C. and Weiner, J. 2006. Quantifying size-asymmetric growth among individual beech trees (*Fagus sylvatica*). Canadian Journal of Forest Research **36**, 418-425.
- Thorsted, M.D., Olesen, J.E. and Weiner, J. 2006. Mechanical control of clover increases grain yield and nitrogen content in winter wheat/white clover intercropping. European Journal of Agronomy **24**, 149-155.

- Grimm, V., Revilla, E., Berger, U., Jeltsch, F., Mooij, W., Railsback, S.F., Thulke, H.-H., Weiner, J., Wiegand, T. and DeAngelis, D.L. 2005. Pattern-oriented modeling of agent-based complex systems: Lessons from ecology. Science **310**, 987-991.
- Olsen, J., Kristensen, L. and Weiner, J. 2005. Effects of density and spatial pattern of winter wheat on suppression of different weed species. Weed Science **53**, 690-694.
- Olsen, J., Kristensen, L., Weiner, J. and Griepentrog, H.W. 2005. Increased density and spatial uniformity increase weed suppression by spring wheat (*Triticum aestivum*). Weed Research **45**, 316-321.
- Weiner, J. 2004. Allocation, plasticity and allometry in plants. Perspectives in Plant Ecology, Evolution and Systematics **6**, 207-215.
- Vilà, M. and Weiner, J. 2004. Are invasive plant species better competitors than native plant species? - Evidence from pairwise experiments. Oikos **105**, 229-238.
- von Wettberg, E.J. and Weiner, J. 2004. Effects of distance to crop rows and to conspecific neighbours on the size of *Brassica napus* and *Veronica persica* weeds. Basic and Applied Ecology **5**, 35-41.
- Weiner, J. 2003. Ecology - the science of agriculture in the 21st century. Journal of Agricultural Science **141**, 371-377.
- von Wettberg, E.J. and Weiner, J. 2003. Larger *Triticum aestivum* plants do not preempt nutrient rich patches in a glasshouse experiment. Plant Ecology **169**, 85-92.
- Stoll, P., Weiner, J., Muller-Landau, H., Müller, E. and Hara, T. 2002. Size symmetry of competition alters biomass-density relations. Proceedings of the Royal Society, Series B, **296**, 2191-2195.
- Damgaard, C., Weiner, J. and Nagashima, H. 2002. Modelling individual growth and competition in plant populations: growth curves of *Chenopodium album* at two densities. Journal of Ecology **90**, 666-671.
- Weiner, J., Griepentrog, H.-W. and Kristensen, L. 2001. Suppression of weeds by spring wheat (*Triticum aestivum*) increases with crop density and spatial uniformity. Journal of Applied Ecology **38**, 784-790.
- Weiner, J., Stoll, P., Muller-Landau, H. and Jasentuliyana, A. 2001. The effects of density, spatial pattern and competitive symmetry on size variation in simulated plant populations. American Naturalist **158**, 438-450.
- Inderjit and Weiner, J. 2001. Plant allelopathic interference or soil chemical ecology? Perspectives in Plant Ecology, Evolution and Systematics **4**, 3-12.
- Weiner, J. and Thomas, S.C. 2001. The nature of tree growth and the "age-related decline in forest productivity". Oikos **94**, 374-376.
- Damgaard, C. and Weiner, J. 2000. Describing inequality in plant size or fecundity. Ecology **81**, 1139-1142.
- Müller, I., Schmid, B. and Weiner, J. 2000. The effect of nutrient availability on biomass allocation patterns in 27 species of herbaceous plants. Perspectives in Plant Ecology, Evolution and Systematics **3**, 115-127.
- Weiner, J. 1999. On self-criticism in ecology. Oikos **85**, 373-375.
- Schwinning, S. and Weiner, J. 1998. Mechanisms determining the degree of size-asymmetry in competition among plants. Oecologia **113**, 447-455.
- Weiner, J., Kinsman, S. and Williams, S. 1998. Modeling the growth of individuals in plant populations: local density variation in a strand population of *Xanthium strumarium*. American Journal of Botany **85**, 1638-1645.

- Vilà, M., Stoll, P. and Weiner, J. 1998. Effects of *Rosmarinus officinalis* neighbors on resprouting of *Erica multiflora* individuals. Plant Ecology **136**, 167-173.
- Weiner, J., Wright, D.B. and Castro, S. 1997. Symmetry of below-ground competition between *Kochia scoparia* individuals. Oikos **79**, 85-91.
- Weiner, J., Martinez, S., Müller-Schärer, H., Stoll, P. and Schmid, B. 1997. How important are environmental maternal effects in plants? A study with *Centaurea maculosa*. Journal of Ecology **85**, 133-142.
- Hendry, R.J., McGlade, J.M. and Weiner, J. 1996. A coupled map lattice model of the growth of plant monocultures. Ecological Modelling **84**, 81-90.
- Weiner, J. 1995. On the practice of ecology. Journal of Ecology **83**, 153-158.
- Weiner, J. 1995. Following the growth of individuals in crowded plant populations. Trends in Ecology and Evolution **10**, 389-390.
- Schmid B., Bazzaz, F.A. and Weiner, J. 1995. Size dependency of sexual reproduction and of clonal growth in two perennial plants. Canadian Journal of Botany **73**, 1831-1837.
- Weiner, J. and Fishman, L. 1994. Competition and allometry in *Kochia scoparia*. Annals of Botany **73**, 263-271.
- Stoll, P., Weiner, J. and Schmid, B. 1994. Growth variability in a naturally-established *Pinus sylvestris* population. Ecology **75**, 660-670.
- Schmid, B., Polasek, W., Weiner, J., Krause, A. and Stoll, P. 1994. Modeling of discontinuous relationships in biology with censored regression. American Naturalist **143**, 494-507.
- Vilà, M., Weiner, J. and Terradas, J. 1994. Effects of local competition on resprouting of *Arbutus unedo*. Journal of Vegetation Science **5**, 145-152.
- Weiner, J. 1993. Competition, herbivory and plant size variability: *Hypochaeris radicata* grazed by snails (*Helix aspersa*). Functional Ecology **7**, 47-53.
- Schmid, B. and Weiner, J. 1993. Plastic relationships between reproductive and vegetative mass in *Solidago altissima*. Evolution **47**, 61-74.
- Weiner, J. and Thomas, S.C. 1992. Competition and allometry in three species of annual plants. Ecology **73**, 648-656.
- Klinkhamer, P.G.L., Meelis, E., de Jong, T.J. and Weiner, J. 1992. On the analysis of size-dependent reproductive output in plants. Functional Ecology **6**, 308-316.
- Berntson, G.M. and Weiner, J. 1991. Size structure of populations within populations: Leaf number and size in crowded and uncrowded *Impatiens pallida* individuals. Oecologia **85**, 327-331.
- Pacala, S.A. and Weiner, J. 1991. Effects of including competitive asymmetry in a local density model of plant interference. Journal of Theoretical Biology **149**, 165-179.
- Thompson, B.K., Weiner, J. and Warwick, S.I. 1991. Size-dependent reproductive output in agricultural weeds. Canadian Journal of Botany **69**, 442-446.
- Crawley, M.J. and Weiner, J. 1991. Plant size variation and vertebrate herbivory: Winter wheat grazed by rabbits. Journal of Applied Ecology **28**, 154-172.
- Weiner, J. 1990. Asymmetric competition in plant populations. Trends in Ecology and Evolution **5**, 360-364.
- Weiner, J., Mallory, E.B. and Kennedy, C. 1990. Growth and variability in crowded and uncrowded populations of dwarf marigolds (*Tagetes patula*). Annals of Botany **65**, 513-524.



- Weiner, J., Berntson, G.M. and Thomas, S.C. 1990. Competition and growth form in a woodland annual. Journal of Ecology **78**, 459-469.
- Thomas, S.C. and Weiner, J. 1989. Growth, death and size distribution change in an *Impatiens pallida* population. Journal of Ecology **77**, 524-536.
- Thomas, S.C. and Weiner, J. 1989. Including competitive asymmetry in measures of local interference in plant populations. Oecologia **80**, 349-355.
- Miller, T.E. and Weiner, J. 1989. Local density variation may mimic effects of asymmetric competition on plant size variability. Ecology **70**, 1188-1191.
- Weiner, J. and Whigham, D. 1988. Size variability and self-thinning in wild-rice (*Zizania aquatica*). American Journal of Botany **75**, 445-448.
- Dixon, P.M., Weiner, J., Mitchell-Olds, T. and Woodley, R. 1987. Bootstrapping the Gini coefficient of inequality. Ecology **68**, 1548-1551.
- Weiner, J. and Corlett, R.T. 1987. Size structure of *Livistona endauensis* populations at four sites on Gunung Janing Barat, Johore, Malaysia. Malayan Nature Journal **41**, 297-302.
- Weiner, J. and Thomas, S.C. 1986. Size variability and competition in plant monocultures. Oikos **47**, 211-222.
- Weiner, J. 1986. How competition for light and nutrients affects size variability in *Ipomoea tricolor* populations. Ecology **67**, 1425-1427.
- Weiner, J. 1985. Size hierarchies in experimental populations of annual plants. Ecology **66**, 743-752.
- Weiner, J. 1984. Neighbourhood interference amongst *Pinus rigida* individuals. Journal of Ecology **72**, 183-195.
- Weiner, J. and Solbrig, O.T. 1984. The meaning and measurement of size hierarchies in plant populations. Oecologia **61**, 334-336.
- Mithen, R., Harper, J.L. and Weiner, J. 1984. Growth and mortality of individual plants as a function of "available area". Oecologia **62**, 57-61.
- Weiner, J. 1982. A neighborhood model of annual plant interference. Ecology **65**, 1237-1241.
- Weiner, J. and Conte, P.T. 1981. Dispersal and neighborhood effects in an annual plant competition model. Ecological Modelling **13**, 131-147.
- Weiner, J. 1980. The effect of plant density, species proportion and potassium-phosphorus fertilization on interference between *Trifolium incarnatum* and *Lolium multiflorum* with limited nitrogen supply. Journal of Ecology **68**, 969-979.

#### Invited articles and book chapters

- Gallandt, E. and Weiner, J. 2015. Crop – weed competition. In *eLS (Encyclopedia of Life Sciences)*. Wiley & Sons, Chichester, 10.1002/9780470015902.a0020477.pub2
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