

TODD PATRICK EGAN, Ph. D.

Associate Professor of Biology
Curator of the Elmira College Herbarium (ECH)
Division of Mathematics and Natural Science
Elmira College
One Park Place
Elmira, NY 14901

Foreign collaborator: Institute for Sustainable Halophyte Utilization. Karachi Pakistan.

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Personal webpage: <http://sites.elmira.edu/tegan>

EDUCATION

1994-1999 Ph.D., Plant Biology, Ohio University. Advisor: Dr. Irwin A. Ungar
1992-1994 M.S., Botany, Miami University. Advisor: Dr. David L. Gorchov
1988-1991 B.S., Heidelberg College. Advisor: Dr. Susan Carty

ACADEMIC AWARDS AND HONORS

College of Arts and Sciences, Ohio University: Outstanding Teaching Assistant. 1999
Beta Beta Beta: National Biological Honor Society. 1989-1991
Resident of the Year, Heidelberg College. 1990

INSTRUCTOR

Elmira College (Sept 2001-Present)

Biological Concepts I
Environmental Seminar I and II
Ethnobotany/Plants and Peoples
Field Biology
Field Botany
General Botany
Genetics
Introduction to Environmental Studies
Junior Seminar: Biology and Allied Majors
Marine and Island Ecology, in the Bahamas
Modern Age
Plant Ecology
Plant Physiology
Poland: Culture and Identity

Elmira College (Continued)

Science of Flight
Undergraduate Research Director
World of Plants
Worlds Collide

Univ WI-Milwaukee (Jan 2000-May 2001)

Foundations of Biological Sciences II
Plant Ecology
Principles of Natural Resource Management
Undergraduate Research Director

TEACHING ASSISTANT

Graduate

Ecology
Genetics
Introduction to Botany
Plant Physiology
Plant Systematics
Plants, Humanity, and the Environment
World of Plants

Undergraduate

Field Botany and Zoology
General Botany
Introductory Biology

GRANTS

2010. EGAN, T. P. Tri-Beta, National Biological Honor Society. Travel grant to biennial National Convention in Durango, Colorado. \$200.00
2008. EGAN, T. P. and Meekins, J. F. Assisted in writing and performing research with National Science Foundation grant for United Environment & Energy, LLC, Horseheads, NY. \$7000.00

Tenure Earned in 2007

1996. John Houk Memorial Research Grant, Ohio University. Effect of Salinity on the Induction of a Genetic Message in a Salt Marsh Plant. \$774.00
1996. Ohio Biological Survey, Small Grant Proposal for Individual Members. Halophyte Response to Nitrogen, Moisture, and Density. \$250.00
1992. Sigma Xi, Grant-in-Aid. Induction of Taxol and Baccatin III in *Taxus media* cv Hicksii. \$450.00
1992. Academic Challenge, Miami University. Induction of Taxol and Baccatin III in *Taxus media* cv Hicksii. \$1000.00

PAPERS PUBLISHED

- Barber, D. E. I., T. P. EGAN, and L. L. Gillie. 2017. The Effects of Stem Height and Insect Damage on Plant Moisture Stress on San Salvador Island, the Bahamas. Proceeding of the First Joint Natural History and Geology Conference. Pp 73-73.
- Naderi, R., M. Edalat, and T. P. EGAN. Organic and Urea Fertilizer Effects on Rapeseed and Wild Mustard Competition. *Journal of Plant Nutrition*. In press.
- Naderi, R., E. Bijanzadeh, K. Nosrati, and T. P. EGAN. 2016. The Effect of Composted Municipal Waste, Sheep Manure, and Urea Nitrogen on the Growth and Chemical Composition of Two Rapeseed Cultivars. *Journal of Plant Nutrition*. 39: 1328-1335.
- Bijanzadeh, E., R. Naderi, K. Nosrati, and T. P. EGAN. 2017. Effects of Accelerated Ageing on Germination and Biochemistry of Eight Rice Cultivars. *Journal of Plant Nutrition*. 40: 145-164.

- Nosrati, K., S. Zare, and T. P. EGAN. 2013. Breaking Seed Dormancy in the White Saxaul Tree (*Haloxylon persicum* Boss. et Buhse) Amaranthaceae. *Journal of Plant Nutrition*. 36: 1821-1828.
- Arrowsmith, S., T. P. EGAN, J. F. Meekins, D. Powers, and M. Metcalfe. 2011. Effects of Salt Stress on Capsaicin Content, Growth, and Fluorescence in a Jalapeño Cultivar of *Capsicum annuum* (Solanaceae). *Bios*. 83: 1-7.
- EGAN, T. P. 2010. Endangered Iris Growing in Abundance at Tanglewood Nature Center. *Tanglewood Talk*. October-December. Pg 1.
- Meekins, J. F. and T. P. EGAN. 2010. Several haiku poems. *New York Flora Association Newsletter*. 21. Pg 16.
- Bijanzadeh, E., K. Nosrati, and T. P. EGAN. 2009. Influence of Seed Priming Techniques on Germination and Emergence of Rapeseed (*Brassica napus* L.). *Seed Science and Technology*. 38: 242-247.
- Strzalka, A. E. and T. P. EGAN. 2009. The Effects of Temperature on *Conocarpus erectus* (Combretaceae) Germination. In K. S. Sealy and E. Fried [eds.], *Proceedings of the 12th Symposium on the Natural History of the Bahamas*. Pp. 88-93.
- Hanley, K. A., B. M. Walsh, and T. P. EGAN. 2009. Similarity between Seed Bank and above Ground Vegetation in a *Conocarpus erectus* L. (Combretaceae) Dominated Community on San Salvador Island, the Bahamas. In Kathleen Sullivan Sealy and E. Fried [eds.], *Proceedings of the 12th Symposium on the Natural History of the Bahamas*. Pp. 80-87.
- Bizub, A. L. and T. P. EGAN. 2009. Polish History at Elmira College. *Polish American Journal*. 98. Pg 9.
- Tilden, D., L. B., Kass, and T. P. EGAN. 2008. Thomas F. Lucy's Plant Collections, Donated to the Buffalo Society of Natural Sciences in the Early 20th Century. *Rhodora*. 110: 484-491.
- Zia, S., T. P. EGAN, and M. A. Khan. 2008. Growth and Selective Ion Transport of *Limonium stocksii* Plumbaginaceae under Saline Conditions. *Pakistan Journal of Botany*. 40: 697-709.
- Shahbazi, A., K. Nosrati, and T. P. EGAN. 2008. Influence of Temperature and Salinity on the Germination and Early Seedling Growth of *Atriplex lentiformis* and *Atriplex verrucifera*. *Seed Science and Technology*. 36: 339-349.
- Zia, S., T. P. EGAN, and M. A. Khan. 2007. Population studies of *Limonium stocksii* (Plumbaginaceae) from a Salt Desert near the Arabian Sea Coast. *Communications in Soil Science and Plant Analysis*. 38: 1975-1990.
- Kass, L. B., R. E. Hunt, S. B. Danforth, and T. P. EGAN. 2007. Reproductive Biology of Buttonwood (*Conocarpus erectus* L.; Combretaceae), a Polygamous Population on San Salvador Island. *The Bahamas Naturalist and Journal of Science*. 2: 40-49.
- Kass, L. B., R. E. Hunt, S. B. Danforth, and T. P. EGAN. 2007. Reproductive Biology of Buttonwood (*Conocarpus erectus* L.; Combretaceae), a Polygamous Population on San Salvador Island. In B. J. Rathcke and W. K. Hayes [eds.], *Proceedings of the 11th*

Symposium on the Natural History of the Bahamas. 31-42. Gerace Research Centre. The Bahamas.

Tenure Earned in 2007

- Gillie, L., R. Erdman, and T. P. EGAN. 2005. Linking Research with Teaching: Student Projects at the GRC. S. D. Buckner and T. A. McGrath [eds.], Proceeding of the 10th Symposium on the Natural History of the Bahamas. Gerace Research Centre. The Bahamas. 48-53. Gerace Research Centre. The Bahamas.
- Graver, E. K., L. B. Kass, and T. P. EGAN. 2005. Updating Plant Names for the Upper Susquehanna Valley Flora, New York. NYFA Newsletter. Summer 16: 1-4.
- Deutch, C., T. P. EGAN, and J. F. Meekins. 2004. Protein and Carbohydrate Contents of Plant Seeds: an Introduction to Biochemical Analysis. The American Biology Teacher. 3:192-201.
- EGAN, T. P., J. F. Meekins, and D. Maluso. 2004. Dyes, Fibers, and Paper: A Botany Lab for Non-Biology Majors. Bioscene. 30: 15-18.
- EGAN, T. P., I. A. Ungar, and H. D. Dewald. 2001. The Effect of Different Salts of Sodium and Potassium on the Accumulation of Glycinebetaine in *Atriplex prostrata* (Chenopodiaceae). *Biologia Plantarum*. 44: 595-597.
- EGAN, T. P. and I. A. Ungar. 2000. Similarity between Seed Banks and Aboveground Vegetation Along a Salinity Gradient. *Journal of Vegetation Science*. 11: 189-194.
- EGAN, T. P. and I. A. Ungar. 2000. Inundation is Lethal to the Salt Marsh Species *Salicornia europaea* and *Atriplex prostrata* (Chenopodiaceae). *Ohio Journal of Science*. 100: 24-27.
- EGAN, T. P. and I. A. Ungar. 1999. The Effects of Temperature and Seasonal Change on the Germination of Two Salt Marsh Species *Atriplex prostrata* and *Salicornia europaea* Along a Salinity Gradient. *International Journal of Plant Science*. 160: 861-867.
- EGAN, T. P. and I. A. Ungar. 1998. The Effect Different Salts of Sodium and Potassium on the Growth of *Atriplex prostrata* (Chenopodiaceae). *Journal of Plant Nutrition*. 21: 2193-2205.
- EGAN, T. P., I. A. Ungar and J. F. Meekins. 1997. The Effect of Different Salts of Sodium and Potassium on the Germination of *Atriplex prostrata* (Chenopodiaceae). *Journal of Plant Nutrition*. 20: 1723-1730.
- EGAN, T. P., N. D. Danielson, and D. L. Gorchov. 1996. Effects of Wounding on Taxol and Baccatin III in *Taxus media* cv Hicksii. *Ohio Journal of Science*. 96: 41-44.

INVITED MANUSCRIPTS

- EGAN, T. P. and A. E. Strzalka. Germination Factors and Influences on Button-wood, *Conocarpus erectus*, Combretaceae. 2016. Tasks for Vegetation Science, Vol 48.-Sabkha Ecosystems: Vol. V The Americas. **Chapter twenty three.**

Hanley, K. A., B. M. Walsh, T. P. EGAN. 2016. The Seed Bank of a Hypersaline Shrub Community in the Bahamas. *Tasks for Vegetation Science*, Vol 48.-Sabkha Ecosystems: Vol. V The Americas. **Chapter thirteen.**

Nosrati, K., S. Zare, and T. P. EGAN. 2013. Germination Pre-Treatments in *Haloxylon persicum* (Amaranthaceae), an Economically Important Tree of Desert Ecosystems in Western Asia. In: Khan, M.A.; Böer, B.; Öztürk, M.; Al Abdessalaam, T.Z.; Clüsener-Godt, M.; Gul, B. [eds.] *Tasks for Vegetation Science*, Vol 47.-Sabkha Ecosystems, Volume IV. Springer. The Netherlands. **Chapter eighteen.**

Shahbazi, A., K. Nosrati, and T. P. EGAN. 2013. Germination and Early Seedling Growth of Two Salt-Tolerant *Atriplex* Species that Prevent Erosion in Iranian deserts. In: Khan, M.A.; Böer, B.; Öztürk, M.; Al Abdessalaam, T.Z.; Clüsener-Godt, M.; Gul, B. [eds.] *Tasks for Vegetation Science*, Vol. 47-Sabkha Ecosystems, Volume IV. Springer. The Netherlands. **Chapter twenty.**

Tenure Earned in 2007

Gaylord, B. and T. P. EGAN. 2006. How Salts of Sodium, Potassium, and Sulfate Affect the Germination and Early Growth of *Atriplex canthocarpa*. In M. Ajmal Khan and Darrell J. Weber [eds.], *Tasks for Vegetation Science - 40. Ecophysiology of High Salinity Tolerant Plants*. Springer. The Netherlands. **Chapter one.**

EGAN, T. P. and I. A. Ungar. 2001. Competition between *Salicornia europaea* and *Atriplex prostrata* Along an Experimental Salinity Gradient. *Wetlands Ecology and Management*. 9: 457-461.

MANUSCRIPTS IN PREPARATION

Bijanazadeh, E. and T. P. EGAN. 2017. Silicon Priming Affected Germination, Ion Balance, and Root Structure of Durum Wheat (*Triticum durum* Desf.) Under Salt Stress. Submitted to the *Journal of Plant Nutrition* on 24 August 2016

Naderi, R., M. Edalat, and T. P. EGAN. Effects of Residual Composted Municipal Waste, Sheep Manure, and Urea Nitrogen on the Growth and Chemical Composition of Two Triticale Genotypes. Submitted to the *Journal of Plant Nutrition* on 24 August 2016

Nelson, A., S. Clark, P. Salon, and T. P. EGAN. Growth and Competitive Ability of Native Plants Used to Attract Indigenous Pollinators.

EGAN, T. P., R. H., Cichewicz, and I. A. Ungar. The Effects of Temperature on Four Cultivars of *Capsicum annuum* Along a Salinity Gradient.

Greer, G. K., T. P. EGAN, E. J. Pfeffer, and J. F. Meekins. Sporophytic Plasticity among Natural Populations of *Polystichum acrosticoides*.

PROFESSIONAL PAPERS PRESENTED

Jess Rynders, Elizabeth Dano, and Todd P. Egan. 2017. Elmira College Online Herbarium. Eight Annual Elmira College Student Research Conference Book of Abstracts. Page 4.

- Barber, D. E. I., L. T. Hixon, T. P. EGAN, and L. L. Gillie. 2016. Effect of Time of Day and Plant Height on Plant Moisture Stress in Canopy Trees of San Salvador Island, the Bahamas. Sigma Xi Annual Student Research Conference, Atlanta, GA.
- Hixon, L. T., D. E. I. Barber, T. P. EGAN, and L. L. Gillie. 2016. The Effect of Vine Length and Insect Predation on Plant Moisture Stress on San Salvador Island, the Bahamas. Sigma Xi Annual Student Research Conference, Atlanta, GA.
- Trader, B., E. Champigny, J. Friedman, and T. P. EGAN. 2015. Curation of Lucy Specimens at the Elmira College Herbarium. Elmira College Student Research Conference. Elmira, NY.
- Barber, D. E. I., T. P. EGAN, and L. L. Gillie. 2015. Plant Moisture Stress on San Salvador Island, the Bahamas. 1st Joint Natural History and Geology Conference. San Salvador Island, the Bahamas.
- Amspacher, K. E. Foster, M. Khaing, D. S. Kjar, and T. P. EGAN. 2012. Scholarship at the Elmira College Herbarium. Elmira College Student Research Conference.
- Clark, S. and T. P. EGAN. 2012. Overview of Test Plants and Demonstration of Conservation Plant Calculator. Pollinator Conservation Conference. USDA Big Flats Plant Material Center. Big Flats, NY. 13 September 2012.
- Nelson, A. and T. P. EGAN. 2011. Growth and Competitive Ability of Native Plants Used to Attract Indigenous Pollinators. Perennial Biofeedstock Energy Conference. USDA Big Flats Plant Material Center. Big Flats, NY. 3 August 2011.
- Kjar D. S., B. S. P. Sanders, and T. P. EGAN. 2011. Seed Predation, Parasitoids, and the Jimbay (*Leucaena leucocephala*) on San Salvador. 14th Symposium on the Natural History of the Bahamas, San Salvador, Bahamas. June 2011, pg. 53-58
- Sanders B., D. S. Kjar, and T. P. EGAN. 2011. The effect of Plant Density Insect Predation Rates on San Salvador Island, The Bahamas. 14th Symposium on the Natural History of the Bahamas, San Salvador, Bahamas.
- Gasser, S. A., T. P. EGAN, J. F. Meekins, R. D. Powers, and M. L. Metcalfe. 2010. Effects of Salt Stress on Capsaicin Content, Growth, and Fluorescence in a Jalapeño Cultivar of *Capsicum annuum* (Solanaceae). βββ Biological Honor Society 2010 Biennial National Convention, Abstracts and Program. May 2010, pg. 46.
- Lynn Gillie, T. P. EGAN, and M. A. Perks. 2008. Post-Course Communication with Non-Science Majors: Maintaining Interest in Science. ACUBE abstracts of posters at annual meeting.
- Strzalka, A., L. B. Kass, and T. P. EGAN. 2007. The Effects of Temperature on *Conocarpus erectus* (Combretaceae) Seed Germination. 12th Symposium on the Natural History of the Bahamas, Abstracts and Program. Gerace Research Center, San Salvador Island, Bahamas. June 2007, pg. 8.
- Hanley, K. A., B. M. Walsh, and T. P. EGAN. 2007. Similarity Between Seed Bank and Above-Ground Vegetation in a *Conocarpus erectus* (Combretaceae) Dominated Community on

San Salvador. 12th Symposium on the Natural History of the Bahamas, Abstracts and Program. Gerace Research Center, San Salvador Island, Bahamas, pg. 16.

Tenure Earned in 2007

- Tilden, D., T. P. EGAN, and L. B. Kass. 2005. Lucy's Botanical Collection at the Buffalo Academy of Sciences. Sigma Xi Abstracts.
- Kass, L. B., R. E. Hunt, B. J. Rathcke, S. B. Danforth, and T. P. EGAN. 2005. Reproductive Biology of Buttonwood, *Conocarpus erectus* L., Combretaceae, on San Salvador Island, Bahamas. The 11th Symposium on the Natural History of the Bahamas. Abstracts.
- Graver, E., T. P. EGAN, and L. B. Kass. 2004. New Names of Plant Species of the Upper Susquehanna Valley Flora in New York State. Sigma Xi Abstracts.
- Gillie, L. L., T. EGAN, and M. A. Perks. 2004. The Science of Flight. ACUBE Abstracts.
- Gillie, L. L., R. Erdman, and T. EGAN. 2003. Student Projects in a Team-taught, Mixed-Major Field Course. ACUBE Abstracts.
- EGAN, T. P. and A. Jones. 2003. Tropical Verses Temperate Salt Marsh Chemistry. The 10th Symposium on the Natural History of the Bahamas. Abstracts.
- Gillie, L. L., T. P. EGAN, and R. Erdman. 2003. Linking Research with Teaching: Student Projects. The 10th Symposium on the Natural History of the Bahamas. Abstracts.
- EGAN, T. P., J. F., Meekins, and D. Maluso. 2002. Dyes, Fibers, and Paper: a Botany lab for Non-Biology Majors. Association of College and University Biology Educators/Bioscene. Abstracts, pg. 27.
- Meyer, G. A., E. Weber, T. P. EGAN, and R. Clare. 2001. Do Introduced Plants Reduce Their Allocation to Defense? An Experimental Test with Goldenrod (*Solidago gigantea*). Ecological Society of America. Abstracts, pg. 79.
- EGAN, T. P. and I. A. Ungar. 2000. Similarity between Seed Banks and Aboveground Vegetation along a Salinity Gradient. American Journal of Botany. 87: 42.
- EGAN, T. P. and I. A. Ungar. 1999. The Effects of Temperature and Collection Time on the Germination of Salt Marsh Species from the Seed Bank. XVI International Botanical Congress. Abstracts, pg. 577.
- EGAN, T. P. and I. A. Ungar. 1998. The Effect of Salts of Sodium and Potassium on the Growth of *Atriplex prostrata* (Chenopodiaceae). American Journal of Botany. 85: 88.
- EGAN, T. P. and I. A. Ungar. 1998. The Effects of Temperature and Collection Time on the Germination of Salt Marsh Species from the Seed Bank. The Ohio Journal of Science. 99: 1.
- EGAN, T. P. and I. A. Ungar. 1998. Competition between *Salicornia europaea* and *Atriplex prostrata* along an Experimental Salinity Gradient. The Ohio Journal of Science. 98: 16.
- EGAN, T. P., I. A. Ungar, and J. F. Meekins. 1997. The Effect of NaCl, KCl, Na₂SO₄, and K₂SO₄ on the Germination of *Atriplex prostrata* (Chenopodiaceae). Ohio Journal of Science. 97: 25.

- EGAN, T. P. and I. A. Ungar. 1997. The Effect of Inundation Levels on Growth and Survival of the Salt Marsh Species *Salicornia europaea* and *Atriplex prostrata* (Chenopodiaceae). Pennsylvania Natural History Conference. 2: 13.
- EGAN, T. P., I. A. Ungar, and J. F. Meekins. 1997. The Effect of NaCl, KCl, Na₂SO₄, and K₂SO₄ on the Germination of *Atriplex prostrata* (Chenopodiaceae). Ecology. 78: 82.
- EGAN, T. P., N. D. Danielson, and D. L. Gorchov. 1996. How Bark Wounding and Growth Regulators Affect Taxane Concentration in *Taxus media* cv Hicksii. American Journal of Botany. 83: 13.
- EGAN, T. P., N. D. Danielson, and D. L. Gorchov. 1995. Effects of Bark Wounding on Concentrations of Taxol and Baccatin III in *Taxus media* cv Hicksii. Ohio Journal of Science. 95: 37.
- EGAN, T. P., N. D. Danielson, and D. L. Gorchov. 1994. Induction of Taxol and Baccatin III in *Taxus media* cv Hicksii. Ohio Journal of Science. 94: 13.

COMMITTEE SERVICE

- 2016-present: Curricular Policy Committee. Elmira College
- 2008-2017: Advisor. Beta, Beta, Beta: Biology Honor Society. Elmira College
- 2014-2016: Chair of Mathematics and Natural Sciences. Elmira College
- 2001-2016: Several faculty search committees. Elmira College
- 2006-2015: Teacher Education Advisory Group. Elmira College
- 2013-2014: Faculty Review Committee. Elmira College
- 2012-2013: Chair: Faculty Review Committee. Elmira College
- 2010-2012: Faculty Executive Committee. Elmira College
- 2009-2010: Chair: Faculty Review Committee. Elmira College
- 2008-2009: Faculty Review Committee. Elmira College
- Tenure Earned in 2007**
- 2001-2008: Co-advisor. Beta, Beta, Beta: Biology Honor Society. Elmira College
- 2006-2007: Advising Committee. Elmira College
- 2003-2006: Advisor: Outing Club. Elmira College
- 2001-2005: Educational Standards. Elmira College
- 2002-2003: Chair: Educational Standards. Elmira College
- 2001-2003: Co-advisor: Outing Club. Elmira College
- 2001-2002: Educational Standards. Elmira College

2000-2001: Electron Microscopy, Greenhouse, and Summer Session Committees. UW-Milwaukee

1997-1998: Graduate Committee (Faculty) Representative. Ohio University

1997: Interviewed student applicants for Board of Trustees. Ohio University

1996-1997: Graduate Student Senate, Secretary. Ohio University

1996: Ecology and Energy Conservation Committee - Graduate Student Rep. Ohio University

1996: Department of Environmental and Plant Biology - Colloquium Director. Ohio University

1995-1996: Graduate Student Senate, Departmental Representative. Ohio University

1994: Graduate Student Association. Miami University

1994: Graduate Student Representative. Miami University

1990: Secretary: Eta-Beta Chapter, Tri - Beta. Heidelberg College

DOCTORAL DISSERTATION REVIEW COMMITTEES

Institute of Sustainable Halophyte Utilization, University of Karachi, Pakistan

Abbasi, S. B. 2017. The Effect of Humic Acid on Seed Germination and Seedling Growth of Sub-Tropical Halophytes.

Ehsen, S. 2015. Anti-Nutritive Factors in Species of Halophytes Having Potential Use as Animal Fodder.

Moinuddin, M. 2013. Salt Tolerance and Nutritive Status of Halophytic Grasses of Pakistan.

Hameed, A. 2011. Salinity Induced Oxidative Stress and Protective Antioxidant Activities in Halophytes.

Gulzar, S. 2002. Effect of Salinity on the Germination, Dormancy, Growth and Osmoregulation of Halophytic Grasses from Karachi.

University of Agriculture, Government College University - Faisalabad, Pakistan

Akhter, N. 2014. Adaptive Response of *Typha domingensis* Pers. Ecotypes to Salinity and Nickel Stress.

Muslim Shahnaz, M. In progress. Induction of Salt Tolerance in Wheat (*Triticum aestivum* L.) through Exogenous Selenium Applications.

PROFESSIONAL SOCIETY AFFILIATIONS

New York Flora Association

Botanical Society of America

Sigma Xi Scientific Research Society

REFERENCES

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