

## CURRICULUM VITAE and LIST OF PUBLICATIONS

### PERSONAL DETAILS

Name: **Yael Devora Lubin**

Date and Place of Birth: 23 September 1945

Cambridge, MA, USA

Date of Immigration: September 1984

Address and Telephone: Mitrani Department of Desert Ecology, Blaustein Institute for Desert Research, Ben Gurion University of the Negev, Sede Boqer Campus, Midreshet Ben-Gurion 84990, Israel

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### EDUCATION

1963-1964 Hebrew University, Jerusalem, Israel

B.S. 1965-1967 Columbia University, New York, USA

M.S. 1967-1968 Columbia University, New York, USA\*

Ph.D. 1968-1972 University of Florida, Gainesville, USA\*\*

\*M.S. Thesis: Communication among termites.

Advisor: Dr. F. E. Warburton

\*\*Ph.D. Dissertation: Behavioral ecology of tropical tent spiders of the genus *Cyrtophora* (Araneae, Araneidae), Advisor: Dr. J. H. Kaufmann

Special honors and fellowships awarded during studies:

Phi Beta Kappa, 1967

Columbia University Graduate Fellowship, 1967

University of Florida Graduate Fellowship, 1968

NDEA Title IV Fellowship, 1969

### EMPLOYMENT HISTORY

2013 Professor Emeritus

2001-2005 Head, Mitrani Department of Desert Ecology, Jacob Blaustein Institutes for Desert Research, Sede Boqer Campus, Ben-Gurion University of the Negev

2000-2013 Full Professor, as above

1995-2000 Associate Professor, as above

1988-1995 Senior Lecturer, tenured, as above

1986-1988 Adjunct Lecturer, Ben-Gurion University of the Negev (Biology Department)  
Research Scientist B, Mitrani Center for Desert Ecology, Blaustein Institute for Desert Research

1984-1986 Researcher, Mitrani Center for Desert Ecology, Blaustein Institute for Desert Research, Ben-Gurion University of the Negev, Sede Boqer Campus

1982-1983 Adjunct Assistant Professor, University of Florida (Department of Zoology)

1981-1983 Entomologist, Charles Darwin Research Station, Galapagos, Ecuador

1980 Visiting Lecturer, University of Papua New Guinea (Biology Department)

1976-1984 Research Associate, Smithsonian Tropical Research Institute, Panama

1975-1976 Biologist, National Zoological Park, Smithsonian Institution

1973-1974 Biologist, Smithsonian Tropical Research Institute, Panama (Tropical Ecology)

1969 Research Assistant, Smithsonian Tropical Research Institute, Panama

1969 Teaching Assistant, University of Florida

1968 Teaching Assistant, Columbia University, New York

1966-1967 Research Assistant, Barnard College, New York (Cell physiology)

1965 Research Assistant, City College, New York, (Microbial genetics)

## **PROFESSIONAL ACTIVITIES**

### **Positions in Academic Administration**

2011 Organizer, 26<sup>th</sup> European Congress of Arachnology, Israel

2010-2011 Member, BGU Executive Committee

2009-2014 Member, Steering committee of the Israel Taxonomy Initiative

2009-2011 Chair, Ecology Teaching Committee, Albert Katz International School for Desert Studies

2009-2011 Member, BIDR library committee

- 2000-present Chair & organizer, Annual Sede Boquer Ecology Symposium in memory of Merav Ziv
- 2006-present Member, advisory committee on National Natural History Collections, Israel Academy of Sciences and Humanities
- 2009, 2008, 1998 Grants committee chairman, Israel Science Foundation, Ecology Section
- 1998-present Grant committee member, various years: Israel Science Foundation, US-Israel Binational Science Foundation, Ministry of Agriculture – Open Spaces section
- 2002-2003 Chair, Ecology seminars
- 1998, 1987-89 Chair, Blaustein Institute Seminars
- 1997 Advisor, Research Student Committee, Life Sciences Department, BGU
- 1995-1998 Committee member, Inter-university Ecology Fund
- 1995 Committee member, Israel Science Foundation, Ecology Section
- 1994 Co-Chairman, Workshop on Distribution and Abundance of Terrestrial Invertebrates in Israel, Sede Boquer
- 1993 Co-Chairman, Workshop on Theoretical and Applied Aspects of Conservation in Israel, Sede Boquer
- 1993-96 Committee member, Blaustein International Center
- 1989 Member of Organizing Committee, Annual Meeting of the Zoological Society of Israel, Sede Boquer
- 1987 Member of Organizing Committee, Binational Workshop on Desert Ecology, Sede Boquer
- 1984 Principal Coordinator, Tropical Ecology Graduate Program, University of Panama and Smithsonian Tropical Research Institute
- 1983 Organizing Committee member, Ninth International Congress of Arachnology, Panama
- 1978 Staff Member and Instructor, Organization for Tropical Studies, Costa Rica

**(b) Professional Consulting: Review Experience**

Professional Journals (partial list): American Naturalist, Animal Behaviour, Behavioral Ecology, Behavioural Ecology and Sociobiology, Bulletin of the British Arachnological Society, Ethology, Evolution, Israel Journal of Zoology, Israel Journal of Ecology and Evolution, Journal of Arachnology (subject editor), Journal of Chemical Ecology,

Naturwissenschaften, New Zealand Journal of Zoology, PLoS one, Zoologischer Anzeiger  
(Editorial staff)

Granting Agencies: Israel Inter-university Ecology Fund, Israel Ministry of Agriculture – Chief Scientist grants, Israel Science Foundation, U.S.-Israel Binational Science Foundation, National Geographic Society, National Science Foundation (USA), Australian Research Council, New Zealand Research Council, South African Foundation for Research and Development, ISOPE (European Union),

**(d) Courses Taught**

Arachnid Ecology (Ben-Gurion Univ. & Hebrew University, Faculty of Agriculture)

Animal Behavior and Conservation Biology (Ben-Gurion Univ.; graduate)

Behavioral Ecology (Ben-Gurion University; graduate)

Topics in Behavioral Ecology (Ben-Gurion University; graduate)

Animal Behavior (Ben-Gurion University; undergraduate)

Ecology Field Camp (Ben-Gurion University; undergraduate)

Tropical Ecology (University of Panama; graduate & undergraduate)

Arachnology (University of Florida; graduate & undergraduate)

Ethology (University of Florida; graduate)

**(e) Membership in Professional Societies**

American Arachnological Society, Animal Behaviour Society, Behavioral Ecology Society, British Arachnological Society, International Society of Arachnology, European Society of Arachnology, International Organization for Biological Control, Israel Society of Ecology and Environment, Israel Society of Zoology,

**AWARDS, HONORS, RESEARCH FELLOWSHIPS (POST-DOCTORAL)**

**(a) Honors & Awards**

1984-2000 Research Associate, Harvard University, Museum of Comparative Zoology

2013-2015 President, International Society of Arachnology

**(b) Research Fellowships**

1972 Smithsonian Tropical Research Institute Post-doctoral Fellowship (Behavioral ecology of tropical araneid spiders)

## SCIENTIFIC PUBLICATIONS

### Chapters in Collective Volumes

1. Montgomery, G. G. and Y. D. Lubin. 1978. Prey influences on movements of Neotropical anteaters. Pp.103-131, In: Proceedings of the 1975 Predator Symposium, R. L. Phillips & C. Jonkel (eds.), Montana Forest and Conservation Experimental Station, University of Montana
2. Lubin, Y. D. 1983. *Tamandua mexicana*; *Nasutitermes*; *Nephila clavipes*. Pp. 494-496, 743-747, In: D. H. Janzen (ed.), Costa Rican Natural History, University of Chicago Press.
3. Lubin, Y. D. 1983. Changes in the native fauna of the Galapagos Islands following invasion by the little fire ant, *Wasmannia auropunctata*. Pp. 229-242, In: Evolution in the Galapagos Islands, R. J. Berry (ed.), Academic Press, London
4. Lubin, Y. D. 1986. Web building and prey capture in the Uloboridae. Pp. 132-171, In: Spiders: Webs, Behavior, and Evolution, W. A. Shear (ed.), Stanford University Press.
5. Bilde, T. & Lubin, Y. 2010. Group living in spiders: Cooperative breeding and coloniality. In: Spider Behaviour: Flexibility and Versatility. M. Herberstein, ed., pp. 275-306. Cambridge Univ. Press.
6. Lubin, Y. 2010. Social evolution in spiders. Encyclopedia of Animal Behavior. M.D. Breed & J. Moore, eds. Academic Press, Oxford, Vol. 2, pp. 329-334.
7. Moya-Larano, J., Foellmer, M., Pekar, S., Arnedo, M.A., Bilde, T. and Lubin, Y. 2013. Evolutionary Ecology: Linking traits, selective pressures and ecological functions. Chapter 3, Pp. 112-153, In: Spider Research in the 21<sup>st</sup> Century. D. Penney, ed. Siri Press.
8. Birkhofer, K., Entling, ME and Lubin, Y. 2013. Agroecology: trait composition, spatial relationships, trophic interactions. Chapter 6, pp. 200-229, In: Spider Research in the 21<sup>st</sup> Century. D. Penney, ed. Siri Press.

### Editorship of Collective Volumes

1986. Eberhard, W.G., Y. D. Lubin & B. Robinson (eds.) Proceedings of the Ninth International Congress of Arachnology, Panama, 1983. Smithsonian Institution Press, Washington, D. C.
1997. Ayal, Y. & Lubin, Y. (guest editors). Conservation of land invertebrates in Israel. Ecology and Environment, vol. 3(4), pp. 118-175 (in Hebrew, English summaries)
1998. Lubin, Y. (guest editor) Spiders of Israel: Systematics, Ecology and Behaviour. Israel Journal of Zoology, 44 (2)

2012. Lubin, Y. and Gavish-Regev, E. (Guest editors). Arachnology 2011. Proceedings of the 26<sup>th</sup> Congress of Arachnology. Arachnologische Mitteilungen, 43:1-89

### Articles in Refereed Journals

1. Applebaum, S.W. and Y. Lubin. 1967. The comparative effects of vitamin deficiency on development and on adult fecundity of *Tribolium castaneum*. Ent. exp. & appl., 10:23-30.
2. Lubin, Y. D. 1973. Web structure and function: the non- adhesive orb-web of *Cyrtophora moluccensis* (Doleschall) (Araneae: Araneidae). Forma et Functio, 6:337-358
3. Lubin, Y. D. 1974. Adaptive advantages and the evolution of colony formation in *Cyrtophora* (Araneae: Araneidae). Zool. J. Linnean Soc., London, 54: 321-339
4. Robinson, M. H., Y. D. Lubin, & B. Robinson. 1974. Phenology and natural history of web-building spiders on three transects at Wau, New Guinea. Pacific Insects, 16:118-162
5. Lubin, Y. D. 1975. Stabilimenta and barrier webs in the orb webs of *Argiope argentata* on Daphne and Santa Cruz Islands, Galapagos. J. Arachnology, 2: 119-126
6. Lubin, Y. D., G. G. Montgomery & O. P. Young. 1977. Food resources of Neotropical anteaters (Edentata: Myrmecophagidae): A year's census of arboreal nests of ants and termites on Barro Colorado Island, Panama Canal Zone. Biotropica, 9:26-34
7. Lubin, Y.D. 1978. Seasonal abundance and diversity of web-building spiders in relation to habitat structure on Barro Colorado Island, Panama Canal Zone. J. Arachnology, 6:31-51
8. Lubin, Y. D., W. G. Eberhard & G. G. Montgomery. 1978. Webs of *Miagrammopes* (Araneae: Uloboridae) in the Neotropics. Psyche, 85:1-23
9. Montgomery, G. G. & Y. D. Lubin. 1978. Social structure and food habits of the crab-eating fox (*Cerdocyon thous*) in the Venezuelan llanos. Acta Cientifica Venezolana, 29:382-383
10. Montgomery, G. G. & Y. D. Lubin. 1978. Movements of *Coendu prehensilis* in the Venezuelan Llanos. J. Mammalogy, 59:887-888
11. Robinson, M. H. & Y. D. Lubin. 1979. Specialists and generalists: The ecology and behavior of some web-building spiders from Papua New Guinea. I. *Herrenia ornatissima*, *Argiope ocyaloides* and *Arachnura melanura* (Araneae: Araneidae). Pacific Insects, 21:97-132.
12. Robinson, M. H. & Y. D. Lubin. 1979. Specialists and generalists: The ecology and behavior of some web-building spiders from Papua New Guinea. II. *Psechrus argentatus* and *Fecenia* sp. (Araneidae: Psechridae). Pacific Insects, 21:133-164

13. Lubin, Y. D. 1980. The predatory behavior of *Cyrtophora* (Araneae: Araneidae). J. Arachnology, 8:159-185
14. Lubin, Y. D. 1980. Population studies of two colonial orb-weaving spiders. Zool. J. Linnean Soc., London, 70:265-278
15. Lubin, Y. D. & G. G. Montgomery. 1981. Defenses of *Nasutitermes* termites (Isoptera: Termitidae) against *Tamandua* anteaters (Edentata: Myrmecophagidae). Biotropica, 13:66-76.
16. Levi, H. W. , Y. D. Lubin & M. H. Robinson. 1982. Two new species of *Achaeearanea* from Papua New Guinea, with notes on other theridiid spiders (Araneae: Theridiidae). Pacific Insects, 24: 105-114
17. Lubin, Y. D. 1982. Does the social spider *Achaeearanea wau* (Theridiidae) feed its young? Z. Tierpsychol., 60:127-134
18. Lubin, Y. D. & S. Dorugl. 1982. The effectiveness of single-thread webs as insect traps: Sticky trap models. Bull. British Arachnological Soc., 5:399-407.
19. Lubin, Y. D. B. P. Opell, W. G. Eberhard & H. W. Levi. 1982. Orb plus cone-webs in Uloboridae (Araneae), with a description of a new genus and four new species. Psyche, 89:29-64
20. Lubin, Y. D. & M. H. Robinson. 1982. Dispersal by swarming in social spiders. Science, 216:319-321
21. Adis, J., Y. D. Lubin & G. G. Montgomery. 1984. Species diversity and biomass of arthropods in the canopies of trees from three types of forests near Manaus, Brazil. Studies on the Neotropical Fauna & Environment, 19:223-236
22. Lubin, Y. D. 1984. Changes in the native fauna of the Galapagos Islands following invasion by the little fire ant, *Wasmannia auropunctata*. Biol. J. Linnean Soc., London, 21:229-242
23. Blum, M. S., T. H. Jones, H. A. Lloyd, H. M. Fales, R. R. Snelling, Y. D. Lubin & J. Torres. 1985. Poison gland products of *Solenopsis* and *Monomorium* species. J. Entomol. Sci., 20:254-257
24. Lubin, Y. D. & R. H. Crozier. 1985. Electrophoretic evidence for population differentiation in a social spider, *Achaeearanea wau* Levi (Theridiidae). Insectes Sociaux, 32:297-304.
25. Lubin, Y. D. 1986. Courtship and alternative mating tactics in a social spider. J. Arachnology, 14:239-258

26. Wanless, F. & Y. D. Lubin. 1986. A new species of 'horned salticid' (Araneae: Salticidae) from New Britain Island in Papua New Guinea. *J. Nat. Hist.*, 20:1211-1220
27. Safriel, U. N., Y. Ayal, B. Kotler, Y. Lubin, L. Olsvig-Whittaker & B. Pinshow. 1989. What's special about desert ecology? Introduction. *J. Arid Environments*, 17:125-130
28. Konigswald, A., Y. Lubin & D. Ward. 1990. The effectiveness of the nest of a desert widow spider, *Latrodectus revivensis*, in predator deterrence. *Psyche*, 97:75-80
29. Lubin, Y. D. & J. R. Henschel. 1990. Foraging at the thermal limit: Burrowing spiders (*Seothyra*, Eresidae) in the Namib desert dunes. *Oecologia*, 84:461-467
30. Kotzman, M. Y. Lubin & M. Goldberg. 1991. Activity of burrow-dwelling scorpions revealed at the surface. *Acta Zoologica Fennica*, 190:205-208.
31. Lubin, Y. D. 1991. Patterns of variation in female-biased colony sex ratios in a social spider. *Biol. J. Linnean Soc., London*, 43:297-311.
32. Lubin, Y. M. Kotzman & S. Ellner. 1991. Ontogenetic and seasonal changes in webs and websites of a desert widow spider. *J. Arachnology*, 19:40-48.
33. Henschel, J. R. & Y. D. Lubin. 1992. Environmental factors affecting the web and activity of a psammophilous spider in the Namib desert. *J. Arid Environments*, 22:173-189.
34. Henschel, J.R., D. Ward and Y. Lubin. 1992. The importance of thermal factors for nest-site selection, web construction and behaviour of *Stegodyphus lineatus* (Araneae: Eresidae) in the Negev desert. *J. Thermal Biology*, 17:97-106.
35. Ward, D. and Y. Lubin. 1992. Temporal and spatial segregation of web building in a community of orb-weaving spiders. *J. Arachnology*, 20:73-87.
36. Lubin, Y., S. Ellner & M. Kotzman. 1993. Web relocation and habitat selection in a desert widow spider. *Ecology*, 74:1915-1928.
37. Ward, D. and Y. Lubin. 1993. Habitat selection and the life history of a desert spider, *Stegodyphus lineatus* (Eresidae). *J. Animal Ecology*, 62:353-363.
38. Turner, J.S., Henschel, J.R. and Y. Lubin. 1993. Thermal constraints on prey capture behaviour of a burrowing spider in a hot environment. *Behavioural Ecology and Sociobiology*, 33:35-43.
39. Anava A. & Y. Lubin. 1993. Presence of gender cues in the web silk of a widow spider, *Latrodectus revivensis*, and a description of courtship behaviour. *Bull. British Arachnological Soc.*, 9:119-122.



40. Proszynski, J. & Y. Lubin. 1994. Pitfall trapping of Salticidae (Araneae) in the Negev Desert. Proc. 14<sup>th</sup> European Colloquium of Arachnology, Boll. Acc. Gioenia Sci. Nat., 26:281-291.
41. Lubin, Y. 1995. Is there division of labour in the social spider, *Achaearanea wau* (Theridiidae)? Animal Behaviour, 49:1313-1323.
42. Borkan, J. Gross, E., Lubin, Y. & Oryan, I. 1995. An outbreak of venomous spider bites in a citrus grove. J. Tropical Medicine and Hygiene, 52:228-230.
43. Zemel, A. & Lubin, Y. 1995. Intergroup competition and stable group size. Animal Behaviour, 50:485-488.
44. Henschel, JR, Lubin, Y. & Schneider, J. 1995. Sexual competition in an inbreeding social spider, *Stegodyphus dumicola* (Araneae: Eresidae). Insectes Sociaux, 42:419-426.
45. Henschel, J.R., Schneider, J. and Lubin, Y. 1995. Dispersal mechanisms by the spiders *Stegodyphus*: Do they balloon? J. Arachnology, 23:202-204.
46. Lubin, Y. & Henschel, J.R. 1996. The influence of food supply on foraging decisions in a desert spider. Oecologia, 105:64-73.
47. Schneider, J. & Lubin, Y. 1996. Infanticidal male eresid spiders. Nature, 381:655-656.
48. Schneider, J. & Y. Lubin. 1997. Does high mortality explain semelparity in the spider *Stegodyphus lineatus* (Eresidae). Oikos, 79:92-100.
49. Schneider, J. & Y. Lubin. 1997. Male infanticide in a spider with suicidal brood care, *Stegodyphus lineatus* (Eresidae). Animal Behaviour, 54:305-312.
50. Henschel, J.R. & Y. Lubin. 1997. Site selection at two spatial scales by a sit-and-wait predator. J. Animal Ecology, 66: 401-413.
51. Lubin, Y. & Ayal, Y. 1997. Theoretical aspects of biodiversity and their application to conservation of land invertebrates in Israel. In, Ecology and Environment, 3(4):123-127 (in Hebrew, English summary).
52. Lubin, Y., J. Hennicke & J. Schneider. 1998. Natal philopatry and settling decisions of dispersing *Stegodyphus lineatus* (Eresidae) young. Israel J. Zoology 44:217-226.
53. Brandt, J. and Y. Lubin. 1998. An experimental manipulation of vegetation structure: consequences for desert spiders. Israel J. Zoology 44:201-216.
54. Whitehouse, M.E.A. & Y. Lubin. 1998. Relative seasonal abundance of five spider species in the Negev desert: Intraguild interactions and their implications. Israel J. Zoology 44:187-200.

55. Pasquet, A., Leborgne, R. & Lubin, Y. 1999. Optimal foraging, predation risk and life history of a desert spider, *Stegodyphus lineatus* (Eresidae). *Behavioural Ecology*, 10:115-121
56. Schneider, J. & Lubin, Y. 1998. Intersexual conflict in spiders. *Oikos* (special issue: Costs of Reproduction, ed. H. Ylonen), 83:496-506
57. Crouch, T., Lubin, Y. & Bodasing, M. 1998. Dispersal in the social spider *Stegodyphus mimosarum* Pavesi 1883 (Araneae: Eresidae). *Durban Museum Novitates* 23: 52-55.
58. Johannesen, J. & Lubin, Y. 1999. Group founding and breeding structure in the subsocial spider *Stegodyphus lineatus* (Eresidae). *Heredity*, 82:677-686
59. Whitehouse, M.A.E. & Lubin, Y. 1999. Strategic interference competition by individuals in social spider foraging groups. *Animal Behaviour*, 58: 677-688
60. Amir, N., Whitehouse, M. E. A. & Lubin, Y. 2000. Food consumption and competition in a communally feeding social spider, *Stegodyphus dumicola* (Eresidae). *Journal of Arachnology*, 28: 195-200.
61. Crouch, T. & Y. Lubin, Y. 2000. Effects of climate and prey availability on foraging in the social spider *Stegodyphus mimosarum* (Araneae, Eresidae). *Journal of Arachnology*, 28:158-168
62. Schneider, J.M., Roos, J., Lubin, Y. & Henschel, J.R. 2001. Dispersal of *Stegodyphus dumicola*: they do balloon after all! *J. Arachnol.*, 29: 114-116
63. Johannesen, J. and Y. Lubin. 2001. Evidence for kin structured-group founding and limited juvenile dispersal in the subsocial spider *Stegodyphus lineatus*. *J. Arachnol.*, 29: 413-422
64. Lubin, Y., Henschel, J.R. & Baker, M.B. 2001. Costs of aggregation: shadow competition in a sit-and-wait predator. *Oikos*, 95:59-68
65. Crouch, T. & Y. Lubin. 2001. Population stability and extinction in a social spider *Stegodyphus mimosarum* (Araneae: Eresidae). *Biol. J. Linnean Soc.* 72: 409-417
66. Bilde, T. & Y. Lubin. 2001. Kin recognition and cannibalism in a subsocial spider. *J. Evol. Biol.* 14: 959-966
67. Whitehouse, M.E.A., Shochat, E., Shachak, M. & Lubin, Y. 2002. The influence of scale and patchiness on spider diversity in a semi-arid environment. *Ecography* 25:395-404.
68. Ainsworth, C., Slotow, R., Crouch, T. & Lubin, Y. 2002. Lack of task differentiation during prey capture in the group-living spider *Stegodyphus mimosarum*. *Journal of Arachnology* 30:39-46

69. Bilde, T. Maklakov, A. Taylor P. & Lubin, Y. 2002. State dependent decisions in nest-site choice in a spider. *Animal Behaviour* 64:447-452
70. Lubin, Y. & Crouch, T.C. 2003. Trial by fire: Social spider colony dynamics in periodically burned grassland. *African Zoology* 38:145-151
71. Segev, O., Ziv, M. & Lubin, Y. 2003. The male mating system in a desert widow spider. *Journal of Arachnology* 31:379-393
72. Schneider, J.M., Salomon, M. & Lubin, Y. 2003. Limited adaptive life-history plasticity in a semelparous spider, *Stegodyphus lineatus* (Eresidae). *Evolutionary Ecology Research* 5: 731-738.
73. Maklakov, A.A., Bilde, T. and Lubin, Y. 2003. Vibratory courtship in a web-building spider: signaling quality or stimulating the female? *Animal Behaviour* 66: 623-630
74. Pekár, S & Lubin, Y. 2003. Habitats and interspecific associations of zodariid spiders in the Negev (Araneae: Zodariidae). *Israel Journal of Zoology* 49 (4):255-267.
75. Maklakov AA & Lubin Y. 2004. Sexual conflict over mating in a spider: increased fecundity does not compensate for the costs of polyandry. *Evolution*, 58:1135-1140
76. Maklakov, A.A., Bilde, T. & Lubin, Y. 2004. Sexual selection for increased male body size and protandry in a spider. *Animal Behaviour*, 68:1041-1048
77. Segoli, M., Maklakov, A., Gavish, E., Tsurim, I. and Lubin, Y. 2004. The effect of previous foraging success on web-building behavior in the sheet-web spider, *Frontinellina cf. frutetorum* (Araneae Linyphiidae). *Ecology, Ethology and Evolution*, 16: 291-298.
78. Maklakov, A.A., T. Bilde & Y. Lubin. 2005. Sexual conflict in the wild: Elevated mating rate reduces female lifetime reproductive success. *American Naturalist* 165 Supplement: S38-S45
79. Johannesen, J, Lubin, Y, Laufs, T & Seitz, A. 2005. Dispersal history of a desert spider (*Stegodyphus lineatus*) in contiguous deserts: vicariance and recent range expansion. *Biological Journal of the Linnean Society*, 84:739-754.
80. Whitehouse, M.E.A. and Lubin, Y. 2005. The function of societies and the evolution of group living: Spider societies as a test case. *Biological Reviews* 80: 347-361
81. Salomon, M., Schneider, J. Lubin, Y. 2005. Maternal investment in a spider with suicidal maternal care, *Stegodyphus lineatus* (Araneae, Eresidae). *Oikos* 109:614-622
82. Pekár, S., Hrušková, M. & Lubin, Y. 2005. Can solitary spiders (Araneae) cooperate in prey capture? *Journal of Animal Ecology* 74:63-70

83. Bilde, T., Lubin, Y. Smith, D. Schneider, J. & Maklakov, A.A. 2005. The transition to social inbred mating systems in spiders – Role of inbreeding tolerance in a subsocial predecessor. *Evolution* 59: 160-174
84. Pekár, S., Kral, J. & Lubin, Y. 2005. Natural history and karyotype of some ant-eating zodariid spiders (Araneae, Zodariidae) from Israel. *Journal of Arachnology* 33:50-62
85. Erez, T., Schneider, J.M. & Lubin, Y. 2005. Is male cohabitation costly for females of the spider *Stegodyphus lineatus* (Eresidae)? *Ethology* 111:693-704.
86. Segoli, M., Harari, A.R. & Lubin, Y. 2006. Limited mating opportunities and male monogamy: A field study of white widow spiders, *Latrodectus pallidus* (Theridiidae). *Animal Behavior*, 72: 635-642
87. Maklakov, A.A. & Lubin, Y. 2006. Indirect genetic benefits of polyandry in a spider with direct costs of mating. *Behavioural Ecology and Sociobiology*, 61: 31-38
88. Maklakov, A.A., Bilde, T. And Lubin, Y. 2006. Inter-sexual combat and resource allocation into body parts in the spider, *Stegodyphus lineatus*. *Ecological Entomology*, 31: 564-567.
89. Johannesen, J., Lubin, Y. Bilde, T. Smith, D.R. & Schneider, J.M. 2007. The age and evolution of sociality in *Stegodyphus* spiders: A molecular phylogenetic approach. *Proc. R. Soc. London*, 274: 231-237.
90. Lubin, Y. 2006. Spiders as generalist predators: a dryland agroecosystems perspective. *Phytoparasitica*, 34: 327-330.
91. Segoli, M., Lubin, Y. and Harari, A. R. 2007. The effect of dietary restriction on the lifespan of males in a web-building spider. *Evolutionary Ecology Research*, 9: 697-704.
92. Bilde, T., Coates, K. S., Birkhofer, K., Bird, T., Maklakov, A. A., Lubin, Y. and Aviles, L. 2007. Survival benefits select for group living in a social spider despite reproductive costs. *Journal of Evolutionary Biology*, 20: 2412-2426.
93. Salomon, M. and Lubin, Y. 2007. Cooperative breeding increases reproductive success in the social spider *Stegodyphus dumicola* (Araneae, Eresidae). *Behavioural Ecology and Sociobiology*, 61: 1743-1750
94. Lubin, Y. and Bilde, T. 2007. The evolution of sociality in spiders. *Advances in the Study of Behavior*, 37: 83-145

95. Pluess, T., Opatovsky, I. Gavish-Regev, E., Lubin, Y. and Schmidt, M. H. 2008. Species richness and densities of spiders in wheat-fields and semi-desert in the Negev (Israel). *Journal of Arachnology*, 36: 368-373.
96. Shachak M., Boeken B., Groner E., Kadmon R., Lubin Y., Meron. E., Neeman G., Perevolotsky A., Shkedy Y. and Ungar E. 2008. Woody species as landscape modulators and their effect on biodiversity patterns. *Bioscience*, 58: 209-221.
97. Gavish-Regev, E., Lubin, Y. and Coll, M. 2008. Migration patterns and functional groups of spiders in a desert agroecosystem. *Ecological Entomology*, 33: 202-212.
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100. Gavish-Regev, E., Rotkopf, R., Lubin, Y. and Coll, M. 2008. Consumption of aphids by spiders and the effect of additional prey: evidence from microcosm experiments. *BioControl*, 54: 341-350 (10.1007/s10526-008-9170-0)
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106. Harari, A., Ziv, M. & Lubin, Y. 2009. Conflict or cooperation in the courtship display of the white widow spider. *Journal of Arachnology*, 37: 254-260.
107. Gottlieb, D., Holtzman, J.P., Lubin, Y., Bouskila, A., Kelly, S.T. & Harari, A.R. 2009. Mate availability contributes to maintain the mixed mating system in a scolytid beetle. *Journal of Evolutionary Biology*, 22: 1526-1534

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111. Scharf, I., Lubin, Y. & Ovadia, O. 2010. Foraging decisions and behavioural flexibility in trap-building predators: a review. *Biological Reviews*, 86: 626-639
112. Rao, D. & Lubin, Y. 2010. Conditions favoring group living in web-building spiders in an extreme desert environment. *Israel Journal of Ecology and Evolution*, 56: 21-33.
113. Gottlieb, D., Bouskila, A., Sitkov-Sharon, G., Lubin, Y. Harari, A.R. & Taylor, P. 2010. Female date-palm beetles adjust their sex ratio according to relatedness of female neighbors. *Evolutionary Ecology Research*, 12: 885-896.
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115. Gottlieb, D., **Lubin, Y.** Bouskila, A., Gordon, D. Harari, A.R. 2011. Time limitation affects offspring traits and female's fitness through maternal oviposition behavior. *Biol. J. Linnean Soc.* 102: 728-736.
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117. Mestre, L. & **Lubin, Y.** 2011. Settling where the food is: prey abundance promotes colony formation and increases group size in a web-building spider. *Animal Behaviour* 81: 741-748
118. **Lubin, Y.**, Angel, N. & Assaf, N. 2011. Ground spider communities in experimentally disturbed Mediterranean woodland habitats. *Arachnologische Mitteilungen*, 40: 85-93.
119. Berger-Tal, R. & **Lubin, Y.** 2011. High male mate search costs and a female-biased sex ratio shape the male mating strategy in a desert spider. *Animal Behaviour*, 82:853-859

120. Pekar, S., Sobotnik, J & **Lubin, Y.** 2011. Armoured spiderman: Morphological and behavioural adaptations of a specialized araneophagic predator (Araneae: Palpimanidae). *Naturwissenschaften*, 98:593-603
121. Birkhofer, K., Henschel, J. & **Lubin, Y.** 2012. Effects of extreme climatic events on small-scale spatial patterns: a 20-year study of the distribution of a desert spider. *Oecologia*, 170: 651-657
122. Johannesen, J., Wennmann, J.T. & **Lubin, Y.** 2012. Dispersal behavior and colony structure in a colonial spider. *Behavioral Ecology & Sociobiology* 66:1387-1398
123. Opatovsky, I., Chapman, E.G., Weintraub, P.G., **Lubin, Y.** & Harwood, J.D. 2012. Molecular characterization of the differential role of immigrant and agrobiont generalist predators in pest suppression. *Biological Control*, 63: 25-30.
124. Opatovsky, I. & **Lubin, Y.** 2012. Coping with abrupt decline in habitat quality: Effects of harvest on spider abundance and movement. *Acta Oecologica*, 41: 14-19.
125. Berger-Tal, R., Tuni, C., **Lubin, Y.**, Smith, D., and Bilde, T. 2013. Fitness consequences of outcrossing in a social spider with an inbreeding mating system. *Evolution*, in press.
126. Gottlieb, D., **Lubin, Y.** & Harari, A. 2013. Partial 'local mate competition' explains the high prevalence of unmated females in the population. *Behavioral Ecology & Sociobiology*, in press

### **Research Grants (last 10 years)**

- 2003-2007** Israel Science Foundation. Patterns and mechanisms of biodiversity in water-limited ecosystems. With A. Perevelotsky (Volcani Institute) and G. Ne'eman (Haifa University – Oranim), co-PI's
- 2005-2008** Eshkol, Ministry of Science. Biodiversity and management of open spaces along the rainfall gradient in Israel. With A. Perevelotsky (Volcani Institute) and G. Ne'eman (Haifa University – Oranim), co-PI's
- 2006-2007** Israel Nature and National Parks Authority. Studies of biodiversity of arthropods in Adulam Park, Shfelat Yehuda.
- 2007-2011** Israel Science Foundation. Spillover of agriculturally-subsidized arthropods to adjacent arid habitats: effects on community structure. With Moshe Coll (Hebrew University), PI.

- 2007-2011** Binational Science Foundation. Evolution of inbred social systems in spiders.  
With Deborah Smith (Univ. of Kansas), co-PI.
- 2010-2013** Ministry of Agriculture, Chief Scientist Fund. Effect of tree plantations on predator dynamics in northern Negev agroecosystems. With M. Coll (Hebrew University), co-PI.
- 2010-2011** Jewish National Fund. Planted trees and dispersal of spiders in the Negev desert agroecosystem.
- 2011-2012** Rothschild Foundation. Planted trees as a source of predators of insect pests in wheat.
- 2011-2015** U.S.-Israel Binational Science Foundation. Dispersal in a colonial spider undergoing rapid range expansion. With Deborah Smith (Univ. of Kansas), co-PI.
- 2012-2016** Israel Science Foundation. Decision points on the trajectory to sociality: Date palm beetles (*Coccotrypes dactyliperda*) as a case study. Co-PI with Ally Harari, Volcani Center (PI)
- 2013-2018** Ministry of Agriculture, Chief Scientist. Development of an area wide management system for effective pest control in sustainable agriculture. (Co-PI with A. Harari (PI), Volcani Center).

### **Published Scientific Reports and Technical Papers**

1. Lubin, Y. D. 1985. Llanos ants and giant anteaters: The distribution and behavior of ants in relation to anteater predation. National Geographic Research Reports, 1977 Projects. Pp. 477-494

### **Unrefereed Professional Articles and Publications**

1. Lubin, Y.D. 1981 Spiders. Paradise Magazine of Air Niugini, Port Moresby, Papua New Guinea
2. Lubin, Y.D. 1983 Eating Ants is No Picnic. Natural History, American Museum of Natural History, New York: October 1983.
3. Lubin, Y.D. 1983 An Ant-eating Crab Spider from the Galapagos Islands. Noticias de Galapagos, 37:18-19
4. Henschel, J.R. & Lubin, Y. 1991. Namib and Negev spiders: A comparison of foraging adaptations. Bulletin of the Desert Ecological Research Unit of Namibia, 1991, p.10-12.



5. Lubin, Y. 2009. Gershom Levi, 1937-2009, In Memorium. Israel Journal of Ecology and Evolution, 55: I-II.

6. Lubin, Y. & Gavish-Regev, E. 2009. Obituary, Gershom Levy (1937-2009). Israel Journal of Entomology, 38: 133-142.

## **Lectures and Presentations at Meetings and Invited Seminars**

### **Invited Plenary Lectures**

1975 Prey influences on movements of Neotropical anteaters (with G. G. Montgomery) Predator Symposium, American Society of Mammalogy, Missoula, MT (Paper: Proceedings of the 1975 Predator Symposium).

1981 Web structure and function in uloborid spiders. Symposium on Spider Webs and Behavior, Amer. Arachnological Society (International Meeting), Knoxville, Tennessee

1981 Changes in the native fauna of the Galapagos Islands following invasion by the little fire ant, Wasmannia auropunctata. Symposium of the Linnean Society of London on Evolution in the Galapagos Islands.

1986 Courtship and mating in social spiders. Symposium on social spiders, American Arachnological Society (International Meeting), New Orleans, LA

1993 Division of labour in social spiders. 14<sup>th</sup> European Colloquium of Arachnology, Catania, Italy.

1996 Evolution of sociality in spiders. Symposium on Social Insects, 5<sup>th</sup> Intl. Congr of Systematic and Evolutionary Biology, Budapest, Hungary

1996 Habitat and site-selection in desert spiders. 16<sup>th</sup> European Colloquium of Arachnology, Siedlce, Poland

2002 Inbreeding and the evolution of sociality in spiders. European Coll. Arachnol. Hungary.

2005 The transition from outbreeding to inbreeding in the evolution of sociality in spiders. ILANIT, Eilat

2008. Evolution of sociality in spiders. International Society for Behavioral Ecology. Cornell University, Ithaca, NY, USA.

2010 Evolution of sociality in spiders. Symposium on Cooperation and Sociality, IUSSE meeting, Torino Italy

2012. Colonial spiders on the move. Symposium on Evolutionary Ecology and Genetics of Cooperation and Mating Systems. Skagen, Denmark

2013. Group living in spiders, revisited. 19<sup>th</sup> International Congress of Arachnology, Taiwan

**Presentation of Papers at International Conferences (last 5 years)**

- 2006 *Lubin, Y.* The role of long-distance dispersal in the evolution of sociality in spiders. 23<sup>rd</sup> European Colloquium of Arachnology, Sitges, Spain.  
*Rotkopf, R., Gavish, E., Lubin, Y. and M. Coll.* The effect of alternative prey on the ability of the spider *Eperigone eschatologica* to control leaf aphids. 23<sup>rd</sup> European Colloquium of Arachnology, Sitges, Spain. (poster).  
*Salomon, M., Lubin, Y.* Cooperative breeding in a social spider. 11<sup>th</sup> Congress of the International society for Behavioral Ecology. Tours, France (talk)
- 2007 *Gottlieb, D., Lubin, Y., Bouskila, A., Harari, A.* The dynamics of mixed breeding strategy in a haplo- diploid beetle. European Society for Evolutionary Biology, Uppsala, Sweden.  
*Opatovsky I., Pluess T., Gavish-Regev E., Schmidt M.H., Lubin Y.* The agricultural landscape influence on spider assemblages in nearby natural areas in a desert agro-ecosystem. International Society of Arachnology (ISA), Sao Paulo, Brazil (poster).
- 2008 *Lubin, Y.* Limited male dispersal in an inbred social spider. 24<sup>th</sup> European Congress of Arachnology, Bern, Switzerland (talk).  
*Opatovsky, I. Pluess, T., Schmidt, M.H., Gavish-Regev, E. Lubin, Y.* Do agricultural crops change the spider assemblage in nearby desert habitats? 24<sup>th</sup> European Congress of Arachnology, Bern, Switzerland (talk).  
*Gottlieb, D., Bouskila, A., Harari, A., Lubin, Y.* Evolutionary implications of a high rate of inbreeding in the Beetle *Coccotrypes dactyliperda*. International Society for Behavioral Ecology. Cornell University, Ithaca, NY, USA  
The role of non-agricultural landscapes
- 2009 *Lubin, Y. Assaf, N. and Angel, N.* Does disturbance increase spider diversity? Answers from a Mediterranean ecosystem. 25<sup>th</sup> European Congress of Arachnology, Greece
- 2010 *Lubin, Y.* Loss of natal dispersal in the transition to sociality in spiders – a remaining puzzle. European Society for Evolutionary Biology, Congress, Copenhagen  
*Berger-Tal, R. & Y. Lubin.* Are there benefits to foraging with kin in an inbred social spider? IUSSI, Copenhagen; ESEB, Torino.
- 2011 *Lubin, Y.* Designed for dispersal: Spider dispersal in disturbed habitats. 12<sup>th</sup> Sede Boqer Ecology Symposium in Memory of Merav Ziv.

- Lubin, Y. Opatovsky, I.* Spiders as natural enemies in desert agroecosystems. Israel Soc. for Ecology and Environment.
- Al-Beiruti, H. & Lubin, Y.* Foraging behavior of spiders in dryland wheat agriculture. 26<sup>th</sup> European Congress of Arachnology, Sede Boqer, Israel
- Opatovsky, I., Weintraub, P. & Lubin, Y.* Pest consumption and niche separation of common immigrant and agrobiont spider species in semi-desert wheat fields. 26<sup>th</sup> European Congress of Arachnology, Sede Boqer, Israel; Israel Soc. Entomology Annual Meeting; American Entomological Society Meeting, Reno, Nevada
- Hochman-Adler, V., Coll, M. & Lubin, Y.* Spillover of agricultural pests into adjacent desert habitats. American Entomological Society Meeting, Reno, Nevada.
- Berger-Tal, R., Bilde, T. & Lubin, Y.* Outbreeding depression and lack of inbreeding costs in a social spider. 26<sup>th</sup> European Congress of Arachnology, Sede Boqer, Israel
- Assaf-Reizel, N. & Y. Lubin.* Effect of clear-cutting and grazing on spider diversity in a Mediterranean woodland. 26<sup>th</sup> European Congress of Arachnology, Sede Boqer, Israel
- Berner-Aharon, N, Berger-Tal,R, Aharon, S, Tuni, C. & Lubin, Y.* Post-mating dispersal in the social spider, *Stegodyphus dumicola*. 26<sup>th</sup> European Congress of Arachnology, Sede Boqer, Israel
- Sandomirsky, Y., Lubin, Y., Andrade, M.* Lolita's web: Juvenile female matings in the brown widow spider. 26<sup>th</sup> European Congress of Arachnology, Sede Boqer, Israel
- Smith, D., Su, Y.-C., & Lubin, Y.* Population structure and sex-specific dispersal in a cooperative, subsocial and solitary spider. 26<sup>th</sup> European Congress of Arachnology, Sede Boqer, Israel
- 2012 *Opatovsky, I. & Lubin, Y.* Alternative habitats used by natural enemies in the northern Negev. Israel Society of Ecology & Environment.
- Lubin, Y.* Dispersal in a colonial spider undergoing rapid range expansion. 27<sup>th</sup> European Congress of Arachnology, Slovenia.
- 2013 *Berner-Aharon, N & Lubin, Y.* Does Sexual Selection play a Role in the Dispersal of the Colonial Spider *Cyrtophora citricola*? 19<sup>th</sup> International Congress of Arachnology, Taiwan
- Aharon, S, Gavish-Regev, E & Lubin, Y.* Synopsis of the family Pholcidae (Araneae) in Israel: Species richness and geographic distributions. 19<sup>th</sup> International Congress of Arachnology, Taiwan

### **Participation in informal international workshops**

- 1987 Israel-USA Binational Workshop: What's Special about Desert Ecology? Sede Boqer, Israel (Co-convenor of session on behavioral ecology)
- 1999 Biodiversity in Drylands. International Workshop held at the Blaustein Institute for Desert Research.
- 2000 Symposium: Sociality in Spiders. International Arachnological Congress, South Africa
- 2009 "40 Years in the Desert" – Symposium in honor of Moshe Shachak, Israel (invited talk)
- 2010 "The world we live in" Biodiversity in the 21st Century, French – Israeli workshop, Ramat HaNadiv, Israel (invited talk)

### **PRESENT ACTIVITIES**

#### **Research in Progress**

1. Mating and courtship strategies of spiders (with A. Harari; student: I. Sandomirsky)
2. Demography and population genetics of colonial and social spiders (with D. Smith; post-doc: E. Yip, M.Sc. student: L. Ventura)
3. Management of pests using natural enemies (with A. Harari)
4. Evolution of sociality: date palm beetle model (with A. Harari; post-doc: M. Tremmel)
5. Taxonomy, diversity and biogeography of pholcid spiders in Israel (with E. Gavish-Regev & B. Huber; M.Sc. student: S. Aharon).

#### **Research Students and Postdoctoral Fellows (for graduated students – date of graduation):**

##### Post-doctoral fellows

- Martin Tremmel, Postdoctoral fellow (with A. Harari), 2013- current
- Eric Yip, Postdoctoral fellow, 2012 -current
- John Herrmann, Postdoctoral fellow, 2011-2012
- Nirit Assaf, Postdoctoral fellow – 2006-2008
- Itamar Giiladi, Postdoctoral fellow – 2005-2007
- Elli Groner, Research fellow – 2004-2007

Trine Bilde, Postdoctoral fellow – 2001-2002  
Jutta Schneider, Postdoctoral fellow – 2000-2001  
Mary Whitehouse, Postdoctoral fellow – 1998-1999

#### Graduate students

Itai Opatovsky, Ph.D. – 2013 (P. Weintraub, co-supervisor)  
Iara Gazzera Sandomirsky, Ph.D. – 2013 (A. Harari, co-supervisor)  
Valeria Hochman-Adler, Ph.D. – 2012 (M. Coll, co-supervisor)  
Reut Berger-Tal, Ph.D. – 2012  
Lior Ventura, M.Sc. - current  
Shlomi Aharon, M.Sc. - current  
Na'ama Berner, M.Sc. - 2013  
Huda Al-Beiruti, M.Sc. - 2013  
Udi Segev (Sogavker), Ph.D.- 2012–(J. Kigel, principal advisor, HUU)  
Dafna Gottlieb, Ph.D. – 2010 (with A. Bouskila, BGU and A. Harari, Volcani Center)  
Itai Opatovsky, M.Sc. - 2009  
Joerg Wennmann, Honor's Diploma – 2009 (University of Mainz, principle supervisor - J. Johannesen)  
Efrat Gavish, Ph.D. (combined M.Sc./Ph.D.) – 2008 (with M. Coll, Hebrew Univ)  
Reut Berger-Tal, M.Sc. - 2008  
Mor Salomon, Ph.D. (combined M.Sc./Ph.D.) – 2007  
Diana Milman, M.Sc. - 2006  
Vania Portugal, M.Sc. – 2004  
Michal Segoli, M.Sc.- 2004  
Alexei Maklakov, Ph.D. - 2003  
Aram Aviram, M.Sc. -  
Dinesh Rao, M.Sc. – 2003  
Ori Segev, M.Sc. - 2001  
Danit Teler, M.Sc. - 1999  
Yoni Brandt, M.Sc. – 1998