Shirli Bar-David July, 2016

CURRICULUM VITAE AND LIST OF PUBLICATIONS

• Education

B.Sc. 1989 -1992: Hebrew University of Jerusalem (HUJI), Faculty of Life Sciences, *magna cum laude*.

M.Sc. 1992 - 1995: HUJI, Department of Genetics, summa cum laude.

Advisors: Profs. D. Abeliovich and J. Zlotogora.

Title of thesis: "Genetic Localization of X-Linked Mental Retardation Genes".

Ph.D. 1997 - 2003: Tel-Aviv University (TAU), Department of Zoology

Advisors: Profs. T. Dayan and D. Saltz (BGU).

Title of thesis: "Modeling Population Growth in Time and Space following reintroduction - The Reintroduced Persian Fallow Deer".

• Employment History

2013 (Dec) - current: Senior Lecturer, The Mitrani Department of Desert Ecology

(MDDE), The Jacob Blaustein Institutes for Desert Research (BIDR),

Ben-Gurion University of the Negev (BGU)

2007 (Oct) - 2013: Lecturer, MDDE, BIDR, BGU

2005 – 2007 (Sept): Post-doctoral Fellow, University of Haifa, Institute of Evolution (with

Prof. L. Blaustein, subject: Spatial ecology of fire salamanders: Integration of capture-recapture and population genetic data and

implications for conservation).

2004 -2005 (July): Post-doctoral Fellow, University of California at Berkeley, Department

of Environmental Science Policy & Management (with Prof W. Getz,

subjects: a) Disease dynamics in Colonizing Populations; b) Space use

patterns of African buffalo and implications for disease dynamics).

2003: Post-doctoral Fellow, BGU, BIDR, MDDE (with Prof D. Saltz,

subject: Using a spatially-explicit model of a reintroduced species to

identify development impacts on habitat availability and space use

patterns).

• Professional Activities

(a) Professional functions outside universities/institutions

2014-current: Commission Member of the IUCN SSC Equid specialist group

2012-current: Member of the Minerva Center for Movement Ecology

• Awards, Citations, Honors, Fellowships

(a) Honors, Citation Awards

(**)		
1995	HUJI Rector's award for excellence in studies.	
1996	HUJI Medical School award for an excellent M.Sc. thesis.	
1998-1999	TAU Dean's Ph.D. Fellowship, awarded for academic excellence, TAU.	
1999-2002	Charles Clore Doctoral Scholarship for excellence in academic studies.	
2000	The Adessman travel grant for active participation in international conference,	
	Department of Zoology, TAU.	
2001	The George S. Wise Faculty of life Sciences award in the name of Ian Karten,	
	for excellence in academic studies and research.	
2001	Aharon Katzir travel award, Weizmann Institute of Science, for active	
	participation in an international conference and workshop.	
2001	Prize for excellent student presentation, 31st Annual Conference of the Israel	
	Society for Ecology & Environmental Quality Science, Tel-Aviv.	
2001	Honorable mention for excellent student presentation, 38 th Meeting of the	
	Zoological Society of Israel, Haifa University, Haifa.	
2002	British Ecological Society student award to attend an international conference.	
2002	The Rami Levin prize for academic excellence, Department of Zoology, TAU.	
2005	Society for Conservation Biology travel award to attend the 2005 Asia section	
	meeting, Kathmandu, Nepal	
2005	NSF-IGERT traveling award for participation in the 3 rd Annual Ecology and	
	Evolution of Infectious Diseases Workshop in Fort Collins, Colorado.	
2009	The Rich fund: Grants for women in Academia	
2010	Ben-Gurion University Rector's award for outstanding teaching in the	
	academic year 2009-10.	

(b) Fellowships

2006-2007	VATAT Post-Doctoral	l Fellowship.
-----------	---------------------	---------------

2003-2004 Rothschild Post-Doctoral Fellowship.

- 2002-2003 Kreitman Foundation Post-Doctoral Fellowship, BGU.
- 2002-2003 Heschel Center Fellowship for Environmental Learning and Leadership studies.
- 1993-1995 Hebrew University Medical school fellowship for M.Sc. studies.

• Scientific Publications

- (a) Chapters in collective volumes
- Bar-David, S., Dolev, A., Dayan, T., and Saltz, D. 1999. Behavioral and ecological aspects of reintroduced Persian fallow deer (*Dama dama mesopotamica*). In Advances in Deer Biology, Proceedings of the 4th International Deer Congress. Zomborszky. Z. (editor), Pannon University of Agriculture Faculty of Life Science, Kaposvár, Hungary. pp. 187-189.
- 2. Dolev, A., Bar-David, S., Yom-Tov, Y., and Saltz, D.1999. Home range establishment in reintroduced Persian fallow deer (*Dama dama mesopotamica*). In Advances in Deer Biology, Proceedings of the 4th International Deer Congress. Zomborszky. Z. (editor), Pannon University of Agriculture Faculty of Life Science, Kaposvár, Hungary. pp. 41-43.
- 3. Saltz, D., Lourie, A., Bar- David, S., and Dolev, A. 1999. Planning and implementing a long-term reintroduction program for Persian fallow deer (*Dama dama mesopotamica*). In Advances in Deer Biology, Proceedings of the 4th International Deer Congress. Zomborszky. Z. (editor), Pannon University of Agriculture Faculty of Life Science, Kaposvár, Hungary. pp. 190-193.
- 4. Getz, W. M., J. O. Lloyd-Smith, P. C. Cross, S. Bar-David, P. L. Johnson, T. C. Porco, and Sánchez, M. S. 2006. Modeling the invasion and spread of contagious disease in heterogeneous populations. Feng, Z., Dieckmann, U., Levin, S.A. (eds.), Disease Evolution: Models, Concepts and Data Analyses, AMS-DIMACS Vol. 71: 113-144
- 5. Bar-David, S., Lloyd-Smith, J. O., and Getz, W. M. 2006. Dynamics and Management of Infectious Disease in Reintroduced Populations: the Case of Persian fallow Deer in Israel. McNeely J. A., McCarthy T.M. (eds.), Conservation Biology in Asia: Current Status and Future Perspectives, the Society for Conservation Biology. 340-362.
- 6. Geigl, E., **Bar-David, S.,** Beja-Pereira, A., Cothran, E. G., Giulotto, E., Hrabar, H., Oyunsuren, T., Pruvost, M., 2016. Genetics and Paleogenetics of Equids, in 'Wild Equids: Ecology, Conservation, and Management' edited by Ransom J. and Kaczensky P., *Johns Hopkins University Press*.

- (b) Refereed articles in scientific journals
- 1. Zlotogora, J., Lerer, I., **Bar-David, S**., Ergaz, Z., Abeliovich, D. 1995. Homozygosity for Waardenburg Syndrome. American Journal of human Genetics 56: 1173-1178.
- 2. Bar-David, S., Lerer, I., Kimchi Sarfaty, C., Gelman Kohen, Z., Meiner, V., Zlotogora, J., and Abeliovich, D. 1996. Localization of two X-linked mental retardation (XLMR) genes to Xp: MRX37 gene at Xp22.31-p22.32 and a putative MRX gene on Xp22.11-p22.2. American Journal of Medical Genetics 64: 83-88.
- Dolev, A., Saltz, D., Bar- David, S., and Yom-Tov, Y. 2002. The impact of repeated releases on the space-use patterns of reintroduced Persian fallow deer (*Dama dama mesopotamica*) in Israel. Journal of Wildlife Management. 66: 737-746.
- 4. Perelberg, A., Saltz, D., **Bar-David, S**., Dolev, A., and Yom-Tov, Y. 2003. Seasonal and circadian changes in the home ranges of reintroduced Persian fallow deer. Journal of Wildlife Management. 67: 485-492.
- Bar-David, S., Saltz D., Dayan T. Dolev, A., Perelberg, A. 2005. Demographic models and reality in reintroductions: the Persian fallow deer in Israel. Conservation Biology 19:131-138.
- Bar-David, S., Saltz, D., Dayan, T. 2005. Predicting the spatial dynamics of reintroduced populations The Persian fallow deer. Ecological Applications 15: 1833-1846. (Article featured in the Bulletin of the Ecological Society of America. 2005. 86: 121-123).
- 7. **Bar-David, S.**, Lloyd-Smith, J. O., and W. M. Getz. 2006. Dynamics and Management of Infectious Disease in Colonizing Populations. Ecology 87: 1215-1224.
- 8. **Bar-David. S.**, Segev O., Peleg N., Hill N., Templeton A.R., Schultz S.B., and Blaustein L. 2007. Long distance movement by Fire Salamander (*S. s. infraimmaculata*) and Implications for habitat fragmentation. Israel Journal of Ecology & Evolution 53: 143-160.
- 9. **Bar-David, S.**, Saltz, D., Dayan T., and Shkedy, Y. 2008. Using spatially expanding populations as a tool for evaluating landscape planning: the reintroduced Persian fallow deer as a case study. Journal for Nature Conservation 16: 164-174.
- Bar-David S., Bar-David I., P. C., Rayn, S. J., Knechteland-Cross, C. U., and Getz, W. M.
 Methods for assessing movement path recursion with application to African buffalo in the Kruger regions of South Africa. Ecology 90: 2467-2479.
- 11. Saltz D., **Bar David S.** Zidon R., Dolev A., Perelberg A., King R., and Berger-Tal, O. 2011. Reintroducing the Persian fallow deer *Dama mesopotamica* in Israel a chronology. Animal Production Science: 51, 251–258.

- 12. Berger-Tal, O., **Bar-David S.**, and Saltz D. 2012. An assessment of a multiple release sites strategy for a Persian fallow deer reintroduction. Conservation Biology 26: 107-115.
- 13. Renan S., Speyer, E., Shahar N., Templeton, A.R., and **Bar-David, S.** 2012. A Factorial Design Experiment as a Pilot Study for Non-Invasive Genetic Sampling. Molecular Ecology Resources 12: 1040-1047.
- 14. Blank, L., Sinai I., **Bar-David, S.**, Peleg, N., Segev, O., Sadeh, A., Templeton, A. R., Merilä, J., and Blaustein, L. 2013. Genetic population structure of the endangered fire salamander (*Salamandra infraimmaculata*) at the southernmost extreme of its distribution. *Animal Conservation*. 16: 412-421.
- 15. Davidson, A., Carmel, Y., and **Bar-David, S**. 2013. Characterizing movement pathways using a non-invasive approach: The reintroduced Asiatic wild ass in the Negev. *Landscape Ecology*. 28:1465–1478.
- 16. Gueta T., Templeton A.R, and Bar-David S. 2014. Development of genetic structure in a heterogeneous landscape over a short time frame: the reintroduced Asiatic wild ass. *Conservation Genetics*. 15: 1231-1424. 17.
- Greenbaum G., Templeton A. T., Zarmi Y., and **Bar-David S**. 2014. Dynamics of Allele frequency changes following founder events: A theoretic mathematical model. *PlosOne* 9(12).
- 18. Renan S., Greenbaum G., Shahar N., Templeton A.R, Bouskila A., and Bar-David S. 2015. A simulation approach to study mating system of elusive species: the reintroduced Asiatic wild ass. *Molecular Ecology* 24: 1433-1446.
- 19. Berger-Tal O. and **Bar-David S**. 2015. Synthesized evidence of recursive movement behavior across species. *Ecoshpere*. Accepted.
- 20. Giotto N., J-F., Gerard, A. Ziv., A. Bouskila, and S. **Bar-David**. 2015. Space-use patterns of the Asiatic wild ass (*Equus hemionus*): complementary insights from displacement, recursion movement and habitat selection analyses. *Plos One* 10 (12).
- 21. Greenbaum, G., A. R. Templeton, and **S. Bar-David**. 2016. Inference and Analysis of Population Structure Using Genetic Data and Network Theory. *Genetics* 202:1299-+.
- (c) Published scientific reports and technical papers
- Bar-David, S., Saltz, D., Dayan, T., and Shkedy, Y. 2005. Planning for landscape connectivity in the upper Galilee using a spatially-explicit model of a reintroduced Persian fallow deer. Submitted to the Israel Nature and Parks Authority.
- 2. Waner S., Morto U. **Bar-David S**., 2014. Road kills of Asiatic wild asses: causes and implications to conservation. Submitted to the Israel Nature and Parks Authority.

- 3. Giotto N. Bouskila A. and **Bar-David S**., 2015. Water use by the Asiatic wild ass in the Negev Highlands. Submitted to the Israel Nature and Parks Authority.
- 4. Berger-Tal, O., **S. Bar-David**, A. Dolev, & D. Saltz. 2016. Reintroduction of the Persian fallow deer to the northern region of Israel. In: Soorae, P.S. (ed.) Global Reintroduction Perspectives: 2015. Gland, Switzerland: IUCN/SSC Re-introduction Specialist Group. (In Press).
- (d) <u>Unrefereed professional articles and publications</u>
- 1. **Bar-David, S.**, Tal, A. 1996. Harnessing activism to protect Israel's environment: A survey of public interest activity and potential. Adam Teva V'din, The Israel Union for Environmental Defense, Israel.
- 2. Handrus, E., Saltz, D., and **Bar-David, S**. 2003. Reintroducing Persian Fallow deer in Israel. International Zoo News. 50: 142-146.