

## *Curriculum Vitae:* Michael J. STRIEM

### **Personal record:**

- 2009 - 2011 Freelance Consultant in Breeding Grapes and Stone-Fruit Tree, Genetics and variety evaluation. (<http://michaelstriem.com/>)  
Assisting in Food Product Development and Consulting. (<http://www.striem.com/>)
- 2001 - 2009 Grape Breeder for Sun World International LLC. Develop new seedless table grape varieties by crossing elite parents and selecting desired advanced new grape accessions. Focus on commercial quality attributes such as berry size and cluster structure, eating quality and resistance to powdery mildew.
- 1996-2001 Research Assistant in the Department for Fruit Tree Breeding and Genetics, Agricultural Research Organization, Volcani Center, Ministry of Agriculture. Working on physiology of irrigation and nutrition in grapevine. Small scale wine making and wine tasting of research wines. Member of the wine tasting panel of the "Wine" magazine.
- 1995-1996 Research Assistant in the Department for Fruit Tree Breeding and Genetics, Agricultural Research Organization, Volcani Center, Ministry of Agriculture. Working on grapevine physiology (bud dormancy) and on developing molecular markers (RAPD) in *Citrus*. Member of the wine tasting panel, of the Israel Wine Institute.
- 1994-1995 Post Doctoral Associate at the Dept. Horticultural Sciences, Cornell University, Geneva, New York, Working with Prof. Reisch on grape embryogenesis and biolistic transformation.
- 1990-1994 Developing molecular genetic markers in grapes, using PCR procedures, aimed at establishing linkage with seedlessness. Member of the wine tasting panel, of the Israel Wine Institute
- 1988-1990 Specializing in molecular genetics, starting a RFLP program for grape breeding.
- 1983-1988 Research Assistant in the Department for Fruit Tree Breeding and Genetics, Agricultural Research Organization, Volcani Center, Ministry of Agriculture. Specialising in almond, peach and apricot breeding. Involved in the wine grape breeding program, and assisting in data analysis of the table grape breeding program.
- 1983, May Left the kibbutz and moved with family to Rehovot.
- 1981-1983 Head of the subtropical and vine growers subcommittee of the Regional Horticultural Council of the Golan.
- 1981-1983 Horticultural Supervisor for all the plantations of the Jewish Agency in the entire Southern Golan (on loan from the kibbutz).
- 1979-1981 Managing the kibbutz's avocado orchards, planning, planting and developing.
- 1977-1979 Managing the kibbutz's deciduous orchards.
- 1974-1977 Studying horticulture at the Faculty of Agriculture of the Hebrew University, at Rehovot.
- 1972-1974 Managing the kibbutz's deciduous orchards from planting onwards.
- 1972, May Participated, as a member of a Nahal group, in establishing a new kibbutz (Afiq) on the Golan-Heights.
- 1971-1974 IDF Military Service, in the "Nahal" (settlement units).
- 1967-1971 Agricultural High-school HaKefar-HaYarok.

**Education:**

- 1971 Matriculation at the Agricultural High-school HaKefar-HaYarok.  
Majors: Fruit-Trees; Food-Technology
- 1979 B.Sc. (Agronomy) in Horticulture, at the Faculty of Agriculture, Hebrew University, Jerusalem.
- 1987 M.Sc. in Genetics and Breeding, at the Faculty of Agriculture, Hebrew University, Jerusalem. Thesis: The inheritance of resistance to almond *anthracnose* in almonds.  
Supervisor: Prof. P. Spiegel-Roy.
- 1995 Ph.D. at the Faculty of Agriculture, Hebrew University, Jerusalem.  
The subject: Molecular and biological aspects of seedlessness in grapes.  
Under the supervision of: Prof. P. Spiegel-Roy and Dr. G. Ben-Hayyim.
- 1999 Web site building by HTML basic course @ Sivan Systems & Training, Tel Aviv, Israel
- 2000 Web site building by JAVA SCRIPT advanced course @ Sivan Systems & Training, Tel Aviv, Israel
- 2001 Web designer advanced course (Photoshop, Flash, Image-Ready) @ Sivan Systems & Training, Tel Aviv, Israel
- 2005 MS Access levels 1, 2 and 3 @ New Horizons, Bakersfield California, USA
- 2010 Entrepreneurship of small and own businesses, MATI, Rishon LeZion, Israel
- 2011 Self improvement course by The Landmark Education Forum, Shfayim, Israel

**Inventor on Plant Patents:**

- 1993 **Aviv:** Apricot (*Prunus armeniaca L.*) Israeli Breeders' Rights Patent # 1062; issued: 14.8.1993
- 1994 **Gilad:** Almond (*Prunus amygdalus Batsch*) Israeli Breeders' Rights Patent # 1173; issued: 26.06.1994
- 2002 **Levad:** Almond (*Prunus amygdalus Batsch*) Israeli Breeders' Rights Patent # 3347; issued: 10.01.2002
- 2003 **Sugratwentyfour:** Grape (*Vitis vinifera*) US.PP #16,177 issued: January 3, 2006
- 2004 **Sugratwentsix:** Grape (*Vitis vinifera*) US.PP# 15,110 issued on August 24, 2004.
- 2005 **Sugratwentyseven:** Grape (*Vitis vinifera*) US.PP #15,468 issued January 4, 2005
- 2004 **Sugratwentyeight:** Grape (*Vitis vinifera*) US.PP# 15,229 issued on October 12, 2004.
- 2008 **Sugrathirtyone:** Grape (*Vitis vinifera*) US.PP# 19,065 issued on August 5, 2008
- 2008 **Sugrathirtytwo:** Grape (*Vitis vinifera*) US.PP# 19,024 issued on July 15, 2008
- 2008 **Sugrathirtythree:** Grape (*Vitis vinifera*) US.PP# 19,008 issued on July 8, 2008
- 2009 **Sugrathirtyfour:** Grape (*Vitis vinifera*) US.PP# 19,750 issued on February 17, 2009
- 2009 **Sugrathirtyfive:** Grape (*Vitis vinifera*) US.PP# 20, 491 issued on November 17, 2009

## **Attendance at Symposia and Professional Meetings**

13-18 November 1989	Jerusalem, Israel, 2 <sup>nd</sup> Congress of the International Society for Plant Molecular Biology
6-12 October 1991	Tucson, Arizona, 3 <sup>rd</sup> Congress of the International Society for Plant Molecular Biology
September 1991	One month invited stay at the laboratory of Hort. Dept., Cornell University, Geneva campus. Working with Prof. Reisch on RAPD markers following a grant of the Baron de Hirsch Foundation
March 1994	One month invited stay at the laboratory of Hort. Dept., Cornell University, Geneva campus. Working with Prof. Bruce I. Reisch and Dr. Norman Weeden on RAPD markers and genetic analysis, in frame of a BARD budget # 1888-90.
19-24 June 1994	Amsterdam, The Netherlands, 4 <sup>th</sup> Congress of the International Society for Plant Molecular Biology.
21-22 March 1995	Geneva, New York, Organic Grape and wine production symposium; New York wine industry workshop.
22-27 August 1995	Davis, California, The bi-annual meeting of the North American Grape Breeders.
25-30 May, 1997	Jerusalem, Israel, 5 <sup>th</sup> international symposium on grapevine physiology.
6-12 July 1998	Montpellier, France, 7 <sup>th</sup> International Symposium on Grapevine Genetics and Breeding.
15-18 September 1999	Geneva, New York, The bi-annual meeting of the North American Grape Breeders.
1-4 August 2001	Fayetteville, Arkansas, The bi-annual meeting of the North American Grape Breeders.
26-30 October 2001	Philadelphia, Pennsylvania, The PMA International Fresh Summit.
11-16 January 2002	San Diego, California, the 10 <sup>th</sup> Plant Animal and Microbe Genome Conference.
26-31 August 2002	Kecskemet, Hungary, 8 <sup>th</sup> International Symposium on Grapevine Genetics and Breeding.
23-26 August 2003	Ontario, Canada, The bi-annual meeting of the North American Grape Breeders.
8-11 December 2003	Coronado Island – San Diego, California, California Department of Food and Agriculture: Pierce's-Disease Research Symposium.
10-14 January 2004	San Diego, California, the 12 <sup>th</sup> Plant Animal and Microbe Genome Conference.
21-25 June, 2004	Davis, California, 7 <sup>th</sup> international symposium on grapevine physiology and Biotechnology.
6-9 December 2004	Coronado Island- San Diego, California, California Department of Food and Agriculture: Pierce's-Disease Research Symposium.
14-17 January 2005	San Diego, California, the 13 <sup>th</sup> Plant Animal and Microbe Genome Conference.
7-10 September 2005	Minneapolis, Minnesota - The bi-annual meeting of the North American Grape Breeders.

- 5-7 December 2005 San Diego, California, California Department of Food and Agriculture: Pierce's-Disease Research Symposium.
- 14-18 January 2006 San Diego, California, the 14<sup>th</sup> Plant Animal and Microbe Genome Conference.
- 2-6 July 2006 Udine, Italy - 9<sup>th</sup> international conference on Grape Genetics and Breeding.
- 27-29 November 2006 San Diego, California, California Department of Food and Agriculture: Pierce's-Disease Research Symposium.
- 13-17 January 2007 San Diego, California, the 15<sup>th</sup> Plant Animal and Microbe Genome Conference.
- 7-10 September 2007 Davis, California - The bi-annual meeting of the North American Grape Breeders.
- 12-14 December 2007 San Diego, California, California Department of Food and Agriculture: Pierce's-Disease Research Symposium.
- 12-16 January 2008 San Diego, California, the 16<sup>th</sup> Plant Animal and Microbe Genome Conference.
- 9 - 12 January 2009 San Diego, California, the 17<sup>th</sup> Plant Animal and Microbe Genome Conference.

## List of publications

1. P. Spiegel-Roy, M.J. Striem, I. Baron; 1984. Breeding work in almond. *Alon-HaNotea* 39(3):259-263 (In Hebrew).
2. P. Spiegel-Roy, M.J. Striem, I. Baron, E. Ashbel; 1987. New Almond selections: final report for Saad test-plot. *Alon-HaNotea* 42(6) 551-554 (In Hebrew).
3. M.J. Striem, P. Spiegel-Roy, E. Shabi; 1989. Evaluating susceptibility of almonds to anthracnose disease caused by *Colletotrichum gloeosporioides*. *Phytoparasitica* 17(2) 107-122.
4. M.J. Striem, P. Spiegel-Roy, G. Ben-Hayyim, J. Beckmann, D. Gidoni; 1990. Genomic DNA fingerprinting of *Vitis vinifera* by the use of multi-loci probes. *Vitis* 29:223-227.
5. M.J. Striem, P. Spiegel-Roy, I. Baron, N. Sahar; 1992. The degrees of development of the seed coat and the endosperm, as separate subtraits of stenospermocarpic seedlessness in grapes. *Vitis* 31:149-155.
6. M.J. Striem, G. Ben-Hayyim, P. Spiegel-Roy; 1994. Developing molecular genetic markers for grape breeding using polymerase chain reaction procedures. *Vitis* 33:53-54.
7. J.R. Kikkert, D. Hebert-Soule, P.G. Wallace, M.J. Striem, B.I. Reisch. 1996. Transgenic plantlets of 'Chancellor' (*Vitis* sp.) from biolistic transformation of embryogenic cell suspensions. *Plant Cell Reports* 15:311-316.
8. Spiegel-Roy, S. Cohen, I. Baron, R. Assaf, S. Ben-A'haron, M.J. Striem. 1996. 'Argaman' grape - a new red wine variety. *Alon-HaNotea* 50(6):318-320 (In Hebrew).
9. M.J. Striem, G. Ben-Hayyim, P. Spiegel-Roy; 1996. Identifying molecular genetic markers associated with seedlessness in grape. *J. Amer.Soc. Hort. Sci.* 121(5) : 758-763.
10. M.J. Striem, B.I. Reisch. 1996. New grape cultivars resistant to fungus diseases. *Alon-HaNotea* 50(11):540-542 (In Hebrew).
11. P. Spiegel-Roy, S. Cohen, I. Baron, R. Assaf, S. Ben-A'haron, M.J. Striem. 1996. 'Argaman' - a new, highly colored, prolific *vinifera* wine cultivar. *HortScience* 31(7) : 1252-1253.
12. J.R. Kikkert, G.S. Ali, M.J. Striem, M.H. Martens, P.G. Wallace, L. Molino, B.I. Reisch. 1996. Genetic engineering of grapevine (*Vitis* sp.) for enhancement of disease resistance. Third International Symposium on In Vitro culture and Horticultural Breeding, Jerusalem, Israel, June 16-21, 1996 (abstract).
13. M.J. Striem, B.I. Reisch, and J.R. Kikkert, 1997. Differences in GUS expression among grapevine transformants. Symposium on Grapevine Physiology. 22-30 May 1997, Jerusalem. Israel (abstract).
14. J.R. Kikkert, M.J. Striem, M.H. Martens, P.G. Wallace, and B. I. Reisch. 1997. Somatic embryogenesis from anthers and ovaries of six grapevine (*Vitis* sp.) cultivars. 1997 Congress on In Vitro Biology. 14-18 June 1997, Washington, DC. (abstract).
15. Oron G., Klein I., Campus K., Gilerman L., Bruner M., Striem M., Mandelbaum R., Armon R., Manor J., 1998. The usage of treated sewage water for irrigation in the Arad Vally. *Water and Irrigation* 378:27-36 (In Hebrew).
16. Klein I., Oron G., Striem M., Gilerman L., Fienberstein L., Mani Y. Bruner M., Levi M., Shapira R., 1998. Irrigating vineyards with fresh and recycled water at the southern Hebron Mountains. Proceedings of the College of Judea and Samaria, Kedumim-Ariel Research Institute Annual Symposium (In Hebrew).
17. Michael Striem and Isaac Klein. Potassium uptake in the grape is reduced by low rates of irrigation Dahlia Greidinger International Symposium on Nutrient management under salinity and water stress, 1-4 March 1999, Technion, Haifa, Israel (abstract).
18. Striem M.J., Cohen S., Bruner M., Klein I., Grapevine Leaf-Area-Index evaluation by gap fraction Inversion. Third International symposium on irrigation of horticultural crops, 28 June-2 July 1999, Lisbon, Portugal (abstract).
19. M.J. Striem, B.I. Reisch, and J.R. Kikkert, 2000. Differences in GUS expression among grapevine transformants. *Acta Hort.* 526:437-443.
20. Klein I., Striem M., Fienberstein L., Mani Y., 2000. Irrigation and fertigation effects on phosphorus and potassium nutrition of wine grapes. *Vitis* 39(2):55-65.
21. J.R. Kikkert, M.J. Striem, J.R. Vidal, P.G. Wallace, J. Barnard and B. I. Reisch. 2005. Long-term study of somatic embryogenesis from anthers and ovaries of s12 grapevine (*Vitis* sp.) genotypes. *In Vitro Cell. Dev. Biol. – Plant* 41:232-239.
22. Phyllis Burger, Alain Bouquet, and Michael J. Striem, Chapter 5: Grape Breeding. In: *Breeding Plantation Tree Crops: Tropical Species*, 2009. S.M. Jain, P.M. Priyadarshan (eds), Springer Science+Business Media, LLC