

Curriculum Vitae: Michael J. STRIEM

Born: 30th June 1953, in Tel-Aviv, Israel.

Personal status: Married + 3 Children

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Personal record:

- March 2020 to Present Owner and CEO, Strieminetica Grapevine Technologies LTD
- 2017 to March 2020 The Hebrew University of Jerusalem, Lecturer on grape breeding
Galilee Management Institute, Lecturer on grape breeding.
Yanay Nurseries Israel, Agronomist
- 2009 - 2017 Galilee Management Institute, Lecturer of Science, Agriculture and Environment, on grape breeding.
- 2009 - 2012 Assisting Dr. Benjamin Striem in Food Product Development and Consulting.
Lecturer at Galilee Management Institute on grape breeding.
- 2001 - 2009 Sun World International LLC.
Grape Breeder for Development of 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.
Member of the USDA Grape Crop Germplasm Committee.
- 1996 - 2001 ARO, Volcani Center, Ministry of Agriculture.
Research Assistant in the Department for Fruit Tree Breeding and Genetics. 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 and Gourmet" magazine.
- 1995 - 1996 ARO Volcani Center, Ministry of Agriculture. Research Assistant in the Department for Fruit Tree Breeding and Genetics, working on grapevine physiology (bud dormancy) and on developing molecular markers (RAPD) in grapes.
Member of the wine tasting panel, of the Israel Wine Institute.
- 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 ARO Volcani Center, Ministry of Agriculture. Department for Fruit Tree Breeding and Genetics, Agricultural Research Organization (ARO), Volcani Center, Ministry of Agriculture. Research Assistant, specializing in almond, peach and apricot breeding. Involved in the wine grape breeding program, and assisting in data analysis of the table grape breeding program.

- 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
- 1972 - 1981 Managing the kibbutz's deciduous orchards and avocado orchards.
- 1972, May Participated in establishing a new kibbutz (Afik) in Northern Israel. Member of the Kibbutz until leaving with the family in June 1983.

Education:

- 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.
- 1988-1995 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.
- 1984-1987 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.
- 1974-1979 B.Sc. (Agronomy) in Horticulture, at the Faculty of Agriculture, Hebrew University, Jerusalem.

Other Training Courses:

- 2013 Teaching Certificate at Kibbutzim College of Education, Technology and the Arts ()
- 2005 Microsoft Access levels 1, 2 and 3
- 2001 Web Design with Photo-Shop, Image-Ready and JAVA SCRIPT
- 1999 Web site building by HTML

Inventor on Plant Patents:

- 1993 **Aviv:** Apricot (*Prunus armeniaca L.*) [Israel Patent # 1062](#); 14.8.93
- 1994 **Gilad:** Almond (*Prunus amygdalus Batsch*) [Israel Patent # 1173](#); 26.06.1994
- 2002 **Levad:** Almond (*Prunus amygdalus Batsch*) [Israel Patent # 3347](#); 10.01.2002
- 2003 **Sugratwentyfour:** Grape (*Vitis vinifera*) US. PP #16,177 issued: January 3, 2006
- 2004 **Sugratwenty-six:** Grape (*Vitis vinifera*) US. PP# 15,110 issued on August 24, 2004.
- 2005 **Sugratwenty-seven:** Grape (*Vitis vinifera*) US. PP #15,468 issued January 4, 2005
- 2004 **Sugratwenty-eight:** Grape (*Vitis vinifera*) US. PP# 15,229 issued on October 12, 2004.
- 2008 **Sugrathirty-one:** Grape (*Vitis vinifera*) US. PP# 19,065 issued on August 5, 2008
- 2008 **Sugrathirty-two:** Grape (*Vitis vinifera*) US. PP# 19,024 issued on July 15, 2008
- 2008 **Sugrathirty-three:** Grape (*Vitis vinifera*) US. PP# 19,008 issued on July 8, 2008
- 2008 **Sugrathirty-four:** Grape (*Vitis vinifera*) US. PP# 19,750 issued on February 17, 2009

- 2008 **Sugrathirtyfive:** Grape (*Vitis vinifera*) US.PP# 20, 491 issued on November 17, 2009
- 2009 **Sugrathirtyseven:** Grape (*Vitis vinifera*) US.PP#22431 P2 filed on 29 September 2010
- 2010 **Sugrathirtysix:** Grape (*Vitis vinifera*) US.PP# 12/592,053 issued on August 16, 2011
- 2012 **Sugrathirtyeight:** Grape (*Vitis vinifera*) US.PP# 22,431 issued on January 3, 2012
- 2013 **Sugraforty:** Grape (*Vitis vinifera*) US.PP# 23,479 issued on March 19, 2013
- 2013 **Sugrafortyone:** Grape (*Vitis vinifera*) US. PP# 23,480 issued on March 19, 2013
- 2014 **Sugrafortytwo:** Grape (*Vitis vinifera*) US. PP# 24,250 issued on February 18, 2014
- 2014 **Sugrafortythree:** Grape (*Vitis vinifera*) US. PP#25,998 issued on October 20, 2015

Attendance at Symposia and Study Trips

- 13-18 November 1989 Jerusalem, Israel, 2nd Congress of the International Society for Plant Molecular Biology
- 6-12 October 1991 Tucson, Arizona, 3rd 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. Reisch and Dr. Weeden on RAPD markers and genetic analysis, in frame of a BARD budget No. 1888-90.
- 19-24 June 1994 Amsterdam, The Netherlands, 4th 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, 5th international symposium on grapevine physiology.
- 6-12 July 1998 Montpellier, France, 7th 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 10th Plant Animal and Microbe Genome Conference.
- 26-31 August 2002 Kecskemet, Hungary, 8th 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 12th Plant Animal and Microbe Genome Conference.

21-25 June, 2004	Davis, California, 7 th 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 th 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 th Plant Animal and Microbe Genome Conference.
2-6 July 2006	Udine, Italy - 9 th 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 th 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 th Plant Animal and Microbe Genome Conference.
9 - 12 January 2009	San Diego, California, the 17 th Plant Animal and Microbe Genome Conference.

Membership:

- 2002 – 2009 American Society for Horticultural Science
- 2002 – 2009 International Society for Horticultural Science
- 2006 – 2009 American Society for Enology and Viticulture

Member in committees:

- June 2004 National Clonal Germplasm Repository (NCGR) system – The Grape Crop Germplasm Committee.
- June 2004 International Grape Genome Project (IGGP) – The Industry Reference Group.

Awards:

- May 2001 The Excellent Employee of year 2001, at the Institute of Horticulture, Agricultural Research Organization, Volcani Center, Ministry of Agriculture, Israel.

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. 2009. S.M. Jain, P.M. Priyadarshan (eds), *Breeding Plantation Tree Crops: Tropical Species*, Springer Science + Business Media, LLC