

## CURRICULUM VITAE

**Raphael Abraham Stern**

October 2010

### **PERSONAL**

Born: 1951, Israel.

Marital status: Married + 5

Army service: 1969-72

Home address: Kibbutz Lavi  
Lower Galilee 15267  
Israel  
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Work address: Migal - Galilee Technology Center  
P.O.Box 831  
Kiryat Shmona 11016  
Israel  
Tel.: 04-6953511; Fax: 04-6944980. E-mail: Raffi@migal.org.il

### **UNIVERSITY EDUCATION**

1975-1977 B.Sc. in Agriculture, at the Hebrew University of Jerusalem.

1978-1979 M.Sc. in Horticulture, at the Hebrew University of Jerusalem.  
Title of thesis: **“Improving rooting and viability of rooted peach cuttings under mist.”**  
Supervisors: Profs. A. Gur & A. Altman, Dept. Horticulture.

1988-1992 Ph.D. in Horticulture, at the Hebrew University of Jerusalem.  
Title of thesis: **“Factors affecting litchi productivity in Israel and development of methods to improve its yields.”**  
Supervisors: Profs. S. Gazit, J. Kigel & Dr. I. Adato, Dept. Horticulture.

### **FURTHER STUDIES**

1993 Post-Doctoral training scholarship in USA, Puerto Rico & Ecuador. (Baron de Hirsch Fund).

1995-1996 Post- Doctoral Research Associate at the Hebrew University of Jerusalem, with Dr. O. Shuseiov.  
Research subject: **“Isolation and identification of RNase gene from Starking apple.”**

## **POSITIONS HELD AND ACADEMIC STATUS**

1972-1979	Horticulturist in Kibbutz Lavi orchards.
1979-1987	Manager of the Kibbutz Lavi orchards (avocado, pears, olives, litchi and grapes), and participated in experimental projects with researchers from the Volcani Center, ARO, on plant protection, dormancy break, olive harvesting machinery, irrigation, fertilization and pruning.
1982-2000	Established and managed experimental plots of mango, litchi macadamia and fejoa at Kibbutz Lavi together with the Horticultural Department of Volcani Center (ARO).
1982-1992	Member in the Regional Boards for Pear and Avocado.
1984-1994	Member in the National Board for Pears.
1989-1998	Member in the National Litchi Board, as expert on litchi.
1997-2004	Member in a steering committee for Matityahu Research Station, Nomination by the Volcani Center (ARO).
1998-2001	Member of scientific management in the Bureau of Chief Scientist in the Ministry of Agriculture for litchi and mango.
2000-2006	Member of scientific management in the Bureau of Chief Scientist in the Ministry of Agriculture for Israeli biblical fruits (grape, fig, olive, pomegranate, date and almond).
1988-1992	Research Assistant in the Department of Horticulture of the Faculty of Agriculture in Rehovot.
1993	Scientist at MIGAL (Grade C)
1993 to date	Regional Researcher (deciduous and litchi) for north of Israel at MIGAL and Northern R&D.
2000 to 2004	Senior Scientist (Grade B) at MIGAL [Senior lecturer]
2004 to 2008	Associate Principal Scientist (Grade A) at MIGAL [Associate Prof.]
2008 to date	Principal Scientist (Grade A+) at MIGAL [Professor]
2008 to date	Member of Scientific Management in the Bureau of chief scientist in the Ministry of Agriculture for "Global Warming".
2008 to date	Member of Scientific Management in the Bureau of chief scientist in the Ministry of Agriculture for "Colony Collapse Disorder" (CCD).

- 2009- to date            Member of Scientific Management in the Bureau of chief scientist in the Ministry of Agriculture for "Fruit Trees – Long Term Program".
- 2009-                      Developed syllabus (together with Prof. Goldway) for the new degree in Agriculture graduate in Tel-Hai Academic College as part of the Biotechnology studies.
- 2011- to date            Member of the department of agriculture, Faculty of Life Sciences, Tel-Hai Academic College.

### **SPECIAL INVITATIONS**

- 1996-                      Invited by Spanish Ministry of Agriculture as advisor on cultivation of litchi (South Spain).
- 1998- (Summer)        Invited by Chinese Ministry Foreign Experts as advisor on litchi cultivation (Guangxi Province).
- 1999- (Summer)        Invited by Chinese Ministry Foreign Experts as advisor on litchi cultivation (Guangxi Province).
- 2000- (Summer)        Invited by Chinese Ministry Foreign Experts as advisor on litchi cultivation (Guangxi Province).

### **PROFESSIONAL STUDY TOURS**

- 1998- (Summer)        Professional tour to study the Pear Industry (Cultivation and Research) in Spain (Lleida/Barcelona).
- 1999- (Summer)        Professional tour to study the Pear and Apple research in Bologna University (Italy), INRA research station at Angers (France) and CTIFL station at Bordoux (France).
- 2001- (Winter)         Professional tour to study the New Zealand R&D systems in deciduous.
- 2003- (Summer)        Professional tour to study the Pear research and industry in Portugal and Italy.
- 2004- (Winter)         Professional tour to study the lychee research and industry in South Africa.
- 2004- (Summer)        Professional tour to study the peach research and industry in south Italy.
- 2005- (Summer)        Professional tour to study the cherry research and industry in Turkey.

- 2006- (Winter) Professional tour to study the Chile R&D systems in deciduous.
- 2009- (Summer) Professional tour to study the Pear rootstocks and plantation systems in Italy (Bologna) and Spain (Lleida).

### **TEACHING AND TRAINING EXPERIENCE**

1. Lecturer, Graduate course on Botany (Course # 1021204) at Tel-Hai Academic College (Biotechnology Sciences) from 2003 to 2007.
2. Lecturer, Graduate course on Modern Agriculture (Course # 1011601), Tree Biology (Course # 1400012), Biology of Deciduous Fruit Trees (Course # ), Biology of Subtropical Fruit Trees (Course # ) at Tel-Hai Academic College (Agricultural Sciences) from 2009 to date.
3. Lecturer, on Botany in a course for wine industry (Cellar Master) and olive oil industry at Tel-Hai Academic College from 2004 to date.
4. Lecturer, basic course on “Plant bioregulators: Principle and Applications”, at the Extension Service of the Ministry of Agriculture (from 1998 to date).
5. Lecturer, Annual Meetings on “Pollination in Agricultural Crops” at the Volcani Center (1993 – lychee, 1995 – lychee, 1998 – apple, 2007 – deciduous).
6. Lecturer, Annual Meetings on “Lychee Productivity”, at the Extension Service of the Ministry of Agriculture (1990-2000).
7. Lecturer, Annual Meetings on “Apple and Pear Cultivation”, at the Extension Service of the Ministry of Agriculture (1997 to date).
8. Students: Arnon Dag, Post-Doctoral stage (1999-2000); Doron Schneider, PhD (1998-2002); Gal Sapir, Msc (2001-2002) and PhD (2003-2007); Anat Zisovich, MSc (with excellence 2002-2003) and PhD (2007- ), Amir Raz, MSc (2005-2007) and PhD (2007- ).
9. Secondary School Students: About 15 research studies (Final Projects) at the Sde-Eliyahu Regional School (Bet Shean Vally) and at schools in the Upper Galilee through the Association for the Advancement of Science Education in Galilee.

### **PRIZES / AWARDS**

2008: 10,000\$ from the JCA charitable foundation for outstanding contribution to the development by unique, innovation and entrepreneurial projects (pollination and fertilization in Deciduous fruit).

## **PARTICIPATION IN INTERNATIONAL SEMINARS/MEETINGS**

- 1992 International Congress on Horticulture (ASHS), Hawaii, USA.  
1992 International Symposium on Orchard and Plantation System, Israel.  
1995 International Congress on Avocado. Israel.  
1996 International Congress on Mango. Israel.  
2000 International Symposium on litchi and longan, Guangzhou, China.  
2000 International Symposium on pear growing, Bologna, Italy.  
2002 International Congress on Horticulture (26<sup>th</sup>), Toronto, Canada.  
2004 International Symposium on pear growing, Stellenbosch, South Africa.  
2005 International Symposium on cherry growing, Bursa, Turkey.  
2006 International Symposium on kiwifruit growing, Rotorua, New Zealand.  
2006 International Congress on Horticulture (27<sup>th</sup>), Seoul, Korea  
2007 International Symposium on pear growing, Peniche, Portugal.  
2007 International “Brainstorm” on fruit and vegetable for Africa, Nairobi, Kenya.  
2008 International Symposium on rootstock physiology, Geneva, N.Y. USA.  
2009 International Symposium on cherry growing, Renaca, Chile.

## **MEMBER OF THE SCIENTIFIC COMMITTEE FOR INTERNATIONAL SEMINARS**

- 2007 international symposium on pear growing, Peniche, Portugal

## **MEMBERSHIP IN INTERNATIONAL SOCIETIES**

- 1991 to date American Society for Horticultural Science (ASHS).  
1992 to date International Society for Horticultural Science (ISHS).

## **EDITORIAL RESPONSIBILITIES**

- 1995 to date Reviewer of manuscripts for international refereed journals on Plant Science: Journal of the American Society for Horticultural Science, HortScience, Journal of Horticultural Science and Biotechnology, Scientia Horticulturae, Australian Journal of Agricultural Research, Australian Journal of Experimental Agriculture, Brazilian Journal of Plant Physiology, New Zealand Journal of Crop and Horticultural Science, Horticultural Reviews, Plant Cell Reports, Agricultural Water Management.

1997 to date Reviewer for granting agencies:

1. US-IS Binational Agricultural Research and Development Fund (BARD).
2. Israel Ministry of Agriculture.
3. Israel Ministry of Science.

2010 to date Associate Editor of "The Journal of Horticultural Science & Biotechnology".

### **RESEARCH COMPETITIVE GRANTS**

1988- Chief Scientist of the Ministry of Agriculture.

Title: Factors affecting litchi productivity.

Budget: 40,000 \$/ year; 3 years, with S. Gazit as P.I. Researcher's part:  
30,000\$/ year.

1991- Chief Scientist of the Ministry of Agriculture.

Title: Factors affecting litchi productivity.

Budget: 40,000 \$/ year; 3 years, with S. Gazit as P.I. Researcher's part:  
30,000\$/ year.

1993- Chief Scientist of the Ministry of Agriculture.

Title: Factors affecting litchi productivity.

Budget: 35,000 \$/ year; 3 years, with S. Gazit as P.I. Researcher's part:  
35,000\$/ year.

1994- Chief Scientist of the Ministry of Agriculture.

Title: Litchi fertility.

Budget: 18,000\$/ year; 1 year, P.I. Researcher's part: 18,000\$.

1995- Chief Scientist of the Ministry of Agriculture.

Title: Autumnal water stress in litchi.

Budget: 30,000\$/ year; 3 years, P.I. Researcher's part: 24,000\$/ year.

1996- Chief Scientist of the Ministry of Agriculture.

Title: Factors affecting litchi productivity.

Budget: 30,000 \$/ year; 3 years, with S. Gazit as P.I. Researcher's part:  
30,000\$/ year.

1998- Chief Scientist of the Ministry of Agriculture.

Title: Reduction of biennial bearing and improving the productivity of the  
apple Red-Delicious.

Budget: 38,000\$/ year; 3 years, with A. Erez as P.I. Researcher's part:  
25,000\$/ year.

- 1999- Chief Scientist of the Ministry of Agriculture.  
Title: Improving fruit size of apple and pear.  
Budget: 50,000\$/ year; 3 years, P.I. Researcher's part: 35,000\$/ year.
- 1999- The Ministry of Science and Technology of Israel.  
Title: Identification of better pollenizers for Starking Delicious apple.  
Budget: 40,000\$/ year; 3 years, P.I. Researcher's part: 40,000\$/ year.
- 1999- Chief Scientist of the Ministry of Agriculture.  
Title: New rootstocks and varieties for pears.  
Budget: 35,000\$/ year; 3 years, P.I. Researcher's part: 35,000\$/ year.
- 2000- Chief Scientist of the Ministry of Agriculture.  
Title: Searching for the best pollenizer for Starking Delicious yield.  
Budget: 40,000\$/ year; 3 years, P.I. Researcher's part: 40,000\$/ year.
- 2000- Chief Scientist of the Ministry of Agriculture.  
Title: Raising yield and fruit size in litchi and bringing ripening forward by advancing blossoming, improving fruit set and reducing drop.  
Budget: 22,000\$/ year; 3 years, with I. Adato as P.I. Researcher's part: 10,000\$/ year.
- 2001- Chief Scientist of the Ministry of Agriculture.  
Title: Increasing yield of Japanese plum in Israel by determining genetic fit between male and female varieties by molecular techniques.  
Budget: 35,000\$/ year; 3 years, P.I. Researcher's part: 35,000\$/ year.
- 2001- Chief Scientist of the Ministry of Agriculture.  
Title: The effect of post harvest irrigation rate on autumnal flowering in pear and tree performance in the following year.  
Budget: 22,000\$/ year; 3 years, with A. Naor as P.I. Researcher's part: 5,000\$/ year.
- 2001- Chief Scientist of the Ministry of Agriculture.  
Title: Improving water absorption capacity of deciduous trees grown on heavy soils by changing irrigation regime and improving soil structure.  
Budget: 25,000\$/ year; 3 years, with A. Naor as P.I. Researcher's part: 5,000\$/ year.
- 2002- Chief Scientist of the Ministry of Agriculture.  
Title: Increasing yield of pear by improving cross-pollination and determining genetic compatibility between varieties.  
Budget: 28,000\$/ year; 3 years, P.I. Researcher's part: 24,000\$/ year.

- 2002- Chief Scientist of the Ministry of Agriculture.  
Title: Improving fruit size of apple and Japanese plum.  
Budget: 30,000\$/ year; 3 years, P.I. Researcher's part: 25,000\$/ year.
- 2002- Chief Scientist of the Ministry of Agriculture.  
Title: New rootstocks and varieties for pears.  
Budget: 25,000\$/ year; 3 years, P.I. Researcher's part: 25,000\$/ year.
- 2002- Chief Scientist of the Ministry of Agriculture.  
Title: Assessment of the color-net technology for improve productivity and fruit quality in apple.  
Budget: 30,000\$/ year; 2 years, with Y. Shahak as P.I. Researcher's part: 7,000\$/ year.
- 2003- Chief Scientist of the Ministry of Agriculture.  
Title: Improving size of apricot and cherry.  
Budget: 30,000\$/ year; 3 years, P.I. Researcher's part: 30,000\$/ year.
- 2003- Chief Scientist of the Ministry of Agriculture.  
Title: The effect of shade nets on water consumption, fruit quality and microclimate in apple orchards.  
Budget: 30,000\$/ year; 3 years, with J. Tanny as P.I. Researcher's part: 5000\$/ year.
- 2004- Chief Scientist of the Ministry of Agriculture.  
Title: Increasing yield of Japanese plum in Israel by improving pollination and fertilization and by determining genetic fit between male and female varieties.  
Budget: 25,000\$/ year; 2 years, P.I. Researcher's part: 25,000\$/ year.
- 2004- Chief Scientist of the Ministry of Agriculture.  
Title: Assessment of the color-net technology to improve productivity and fruit quality in apple.  
Budget: 25,000\$/ year; 3 years, with Y. Shahak as P.I. Researcher's part: 5,000\$/ year.
- 2005- Chief Scientist of the Ministry of Agriculture.  
Title: Development of alternative methods for hand thinning of peach and nectarine in order to reduce costs and to improve export potential.  
Budget: 20,000\$/ year; 3 years, P.I. Researcher's part: 20,000\$/ year.

- 2005- Chief Scientist of the Ministry of Agriculture.  
Title: Assessment of color-net technology to improve productivity and fruit quality in pears.  
Budget: 30,000\$/ year; 3 years, with Y. Shahak as P.I. Researcher's part: 7,000\$/ year.
- 2006- ICA.  
Title: Using microbiology technologies for overcoming fertility and quality constrains in deciduous tree plantation in northern Israel.  
Budget: 100,000\$/ year; 3 years, P.I. Researcher's part: 40,000\$/ year.
- 2006- Chief Scientist of the Ministry of Agriculture.  
Title: Using Methyl Jasmonate as a means for improving red color in apple.  
Budget: 25,000\$/ year; 3 years with Y. Cohen as P.I. Researcher's part: 7,000\$/ year.
- 2006- Chief Scientist of the Ministry of Agriculture.  
Title: Increasing yield of Japanese plum and apricot, by improving pollination and fertilization and by determining genetic fit between male and female varieties.  
Budget: 20,000\$/ year; 3 years, P.I. Researcher's part: 20,000\$/ year.
- 2006- Chief Scientist of the Ministry of Agriculture.  
Title: Increasing fertility and fruit size of 'Spadona' pear by controlling the vegetative growth.  
Budget: 20,000\$/ year; 3 years, P.I. Researcher's part: 20,000\$/ year.
- 2006- Market oriented R&D.  
Title: Development of new methods for increasing the export potential of stone fruit.  
Budget: 100,000\$/ year; 2 years, with M. Flaishman as P.I. Researcher's part: 10,000\$/ year.
- 2007- Chief Scientist of the Ministry of Agriculture.  
Title: Increasing fertility and fruit size of 'Spadona' and 'Coscia' pear by improving pollination and fertilization with better pollinators (Bumble bee) and pollenizers (new cultivars).  
Budget: 20,000\$/ year; 3 years, P.I. Researcher's part: 20,000\$/ year.

- 2007- Fruit Grower Association.  
Title: Development of alternative methods for hand thinning of cherry in order to increase fruit size and reduce costs.  
Budget: 10,000\$/ year; 3 years, P.I. Researcher's part: 10,000\$/ year.
- 2008 - Chief Scientist of the Ministry of Agriculture.  
Title: Development of alternative methods for hand thinning of Japanese plum and apricot in order to increase fruit size and reduce costs.  
Budget: 25,000\$/ year; 3 years, P.I. Researcher's part: 25,000\$/ year.
- 2009 - Chief Scientist of the Ministry of Agriculture.  
Title: Response of Deciduous orchards to multiple season severe water stress – physiology, horticultural and practical implications.  
Budget: 80,000\$/ year; 3 years, with A. Naor as P.I. Researcher's part: 15,000\$/ year.
- 2009 - Chief Scientist of the Ministry of Agriculture.  
Title: Development of alternative methods for hand thinning of cherry in order to increase fruit size and reduce costs.  
Budget: 40,000\$/ year; 3 years, P.I. Researcher's part: 40,000\$/ year.
- 2010 - Chief Scientist of the Ministry of Agriculture.  
Title: Increasing fertility and fruit size of Delicious, Golden Delicious and Gala apple by controlling the vegetative growth.  
Budget: 40,000\$/ year; 3 years, P.I. Researcher's part: 40,000\$/ year.
- 2010 - Chief Scientist of the Ministry of Agriculture.  
Title: Increasing fertility and fruit size of Delicious and Golden Delicious apple by improving pollination and fertilization with Bumble bees and better pollenizers.  
Budget: 40,000\$/ year; 3 years, P.I. Researcher's part: 40,000\$/ year.
- 2011 - Chief Scientist of the Ministry of Agriculture.  
Title: Evaluation of new training systems for the pear to reduce labor inputs and improve fruit quality.  
Budget: 45,000\$/ year; 6 years, P.I. Researcher's part: 45,000\$/ year.
- 2011 - Chief Scientist of the Ministry of Agriculture.  
Title: Development of alternative methods for hand thinning of Stone fruits and Loquat.  
Budget: 180,000\$/ year; 5 years, P.I. Researcher's part: 180,000\$/ year.

## LIST OF PUBLICATIONS

### ARTICLES IN REVIEWED JOURNALS

1. Gur, A., Altman, A., **Stern, R.A.** and Wolowitz, B. 1986. Improving rooting and survival of softwood peach cuttings. *Scientia Hort.* 30: 97-108.
2. Gur, A., Altman, A., **Stern, R.A.**, Sigler, T. and Wolowitz, B. 1987. Interaction between myo-inositol and cytokinins: their basipetal transport and effect on peach roots. *Physiol. Plants* 69: 633-638.
3. **Stern, R.A.**, Adato, I., Goren, M., Eisenstein, D. and Gazit, S. 1993. Effect of autumnal water stress on litchi flowering and yield in Israel. *Scientia. Hort.* 54: 295-302.
4. **Stern, R.A.**, Gazit, S., El Batsri, R. and Degani, C. 1993. Pollen parent effect on outcrossing rate, yield and fruit characteristics of “Floridian” and “Mauritius” lychee. *J. Am. Soc. Hort. Sci.* 118: 109-114.
5. **Stern, R.A.**, Kigel, J., Tomer, E. and Gazit, S. 1995. Mauritius lychee fruit development and reduced abscission after treatment with auxin 2,4,5,-TP. *J. Am. Soc. Hort. Sci.* 120: 65-70.
6. Degani, C., **Stern, R.A.**, El Batsri, R. and Gazit, S. 1995. Pollen parent effect on the selective abscission of Mauritius and Floridian lychee fruits. *J. Am. Soc. Hort. Sci.* 120: 523-526.
7. **Stern, R.A.** and Gazit, S. 1996. Lychee pollination by the honeybee. *J. Am. Soc. Hort. Sci.* 121:152-157.
8. **Stern, R.A.**, Eisenstein, D., Voet, H. and Gazit, S. 1996. Anatomical structure of two day old litchi ovules in relation to fruit set and yield. *J. Hort. Sci.* 71: 661-671.
9. **Stern, R.A.**, Eisenstein, D., Voet, H. and Gazit, S. 1997. Female Mauritius litchi flowers are not fully mature at anthesis. *J. Hort. Sci.* 72: 19-25.
10. **Stern, R.A.**, Nadler, M. and Gazit, S. 1997. Floridian litchi yield is increased by 2,4,5-TP spray. *J. Hort. Sci.* 72: 609-615.
11. **Stern, R.A.** and Gazit, S. 1997. Effect of 3,5,6-trichloro-2-pyridil-oxyacetic acid on fruit set, abscission and yield of Mauritius litchi. *J. Hort. Sci.* 72: 659-663.

12. **Stern, R.A.** and Gazit, S. 1998. Pollen viability in lychee. *J. Amer. Soc. Hort. Sci.* 123: 41-46.
13. **Stern, R.A.**, Meron, M., Naor, A., Wallach, R., Bravdo, B. and Gazit, S. 1998. Effect of fall irrigation level in Mauritius and Floridian lychee on soil and plant water status, flowering intensity and yield. *J. Amer. Soc. Hort. Sci.* 123: 150-155.
14. **Stern, R.A.** and Gazit, S. 1999. The synthetic auxin 3, 5, 6 - TPA reduces fruit drop and increases yield in 'Kaimana' litchi. *J. Hort. Sci. and Biotech.* 74: 203-205.
15. Goldway, M., Shai, O., Yehuda, H., Matityahu, A. and **Stern, R.A.** 1999. 'Jonathan' apple is a lower-potency pollenizer of 'Topred' than 'Golden Delicious' due to partial S-allele incompatibility. *J. Hort. Sci. and Biotech.* 74: 381-385.
16. **Stern, R.A.**, Stern, D., Harpaz, M. and Gazit, S. 2000. Applications of 2,4,5-TP, 3,5,6-TPA and combinations thereof increases lychee fruit size and yield. *HortScience*, 35: 661-664.
17. **Stern, R.A.** and Gazit, S. 2000. Application of the polyamine putrescine increased yield of 'Mauritius' litchi (*litchi chinensis* Sonn.) *J. Hort. Sci. and Biotech.* 75: 612-614.
18. Naor, A., Peres, M., Greenblat, Y., Doron, I., Gal, Y. and **Stern, R.A.** 2000. Irrigation and crop load interactions in relation to pear yield and fruit size distribution. *J. Hort. Sci. Biotech.* 75: 555-561.
19. Flaishman, M., Shargal, A. and **Stern, R.A.** 2001. The synthetic cytokinin CPPU increased fruit size and yield of 'Spadona' and 'Coscia' pears (*Pyrus communis* L.). *J. Hort. Sci. Biotech.* 76: 145-149.
20. Flaishman, M., Shargal, A., **Stern, R.A.**, Doron, I., Grinblat, Y. and Zilberstein, M. 2001. The synthetic cytokinin CPPU increased fruit size and yield of 'Spadona' and 'Coscia' pears (*Pyrus communis* L.). *Alon Hanotea* 55: 50-54. (in Hebrew)
21. **Stern, R.A.**, Dag, A. and Eisikowitch, D. 2001. Sequential introduction of honeybee colonies and doubling their density increases cross-pollination, fruit set and yield in 'Red Delicious' apple. *J. Hort. Sci. Biotech.* 76: 17-23.

22. Schneider, D., **Stern, R.A.**, Eisikowitch, D. and Goldway, M. 2001. Analysis of S-allele by PCR for determination of compatibility in the Red Delicious apple orchard. *J. Hort. Sci. and Biotech.* 76: 596-600.
23. Schneider, D., **Stern, R.A.**, Eisikowitch, D. and Goldway, M. 2001. Determination of the self fertilization potency of Golden Delicious apple. *J. Hort. Sci. and Biotech.* 76: 259-263.
24. Schneider, D., **Stern, R.A.**, Eisikowitch, D. and Goldway, M. 2002. The relationship between floral structure and honeybee pollination efficiency in Jonathan and Topred apple cultivars. *J. Hort. Sci. and Biotech.* 77: 48-51.
25. **Stern R. A.**, Shargal, A. and Flaishman, M. A. 2003. Thidiazuron increases fruit size of 'Spadona' and 'Coscia' pear (*Pyrus communis* L.). *J. Hort. Sci. and Biotech.* 78: 51-55.
26. **Stern R. A.** and Flaishman, M. A. 2003. Benzyladenine effects on fruit size, fruit thinning and return yield of 'Spadona' and 'Coscia' pear. *Scientia Hort.* 98: 499-504.
27. **Stern R. A.**, Ben-Arie, R., Neria, O. and Flaishman, M. A. 2003. CPPU and BA increases fruit size of 'Royal Gala' (*Malus domestica*) apple in a warm climate. *J. Hort. Sci. and Biotech.* 78: 297-302.
28. **Stern, R.A.**, Naor, A., Bar, N. Gazit, S. and Bravdo, B. 2003. Xylem-sap Zeatin-Riboside and Dihydrozeatin-riboside levels in relation to plant and soil water status and flowering in 'Mauritius' litchi. *Scientia Hort.* 98: 285-291.
29. Naor, A., Flaishman, M., **Stern, R.A.**, Moshe, A. and Erez, A. 2003. Temperature effects on dormancy completion of vegetative buds in apple. *J. Amer. Soc. Hort. Sci.* 128: 636-641.
30. Sapir, G., **Stern, R.A.**, Eisikowitch, D. and Goldway, M. 2004. Cloning of four new Japanese plum S-alleles and determination of the compatibility between cultivars by PCR analysis. *J. Hort. Sci. and Biotech.* 79: 223-227.
31. Zisovich, A.H., **Stern, R.A.**, Shafir, S. and Goldway, M. 2004. Identification of seven S-alleles from the European pear (*Pyrus communis*) and determination of compatibility among cultivars. *J. Hort. Sci. and Biotech.* 79: 101-106.

32. Zisovich, A.H., **Stern, R.A.**, Sapir, G., Shafir, S. and Goldway, M. 2004. The RHV region of S-RNase in the European pear (*Pyrus communis*) is not required for the determination of specific pollen rejection. *Sexual Plant Reproduction* 17: 151-156.
33. Schneider, D., Eisikowitch, D., Goldway, M. and **Stern, R.A.** 2004. A comparative study of the superior fertility of ‘Smoothy Golden Delicious’ apple. *J. Hort. Sci. and Biotech.* 79: 596-601.
34. **Stern, R. A.**, Goldway, M., Zisovich, A., Shafir, S. and Dag, A. 2004. Sequential introduction of honeybee colonies increases cross-pollination, fruit-set and yield of ‘Spadona’ pear (*Pyrus communis* L.). *J. Hort. Sci. and Biotech.* 79: 652-658.
35. Matityahu, A., **Stern R.A.**, Schneider, D. and Goldway, M. 2005. Molecular identification of a new apple S-RNase – S-29 – cloned from Anna, a low chilling requirement cultivar. *HortScience* 40: 850-851.
36. Zisovich, A.H., **Stern, R.A.**, Shafir, S. and Goldway, M. 2005. Fertilisation efficiency of semi- and fully- compatible European pear (*Pyrus communis*) cultivars. *J. Hort. Sci. and Biotech.*80: 143-146.
37. Schneider, D., **Stern, R.A.**, and Goldway, M. 2005. A comparison between semi- and fully compatible apple pollinators grown under suboptimal conditions. *HortScience* 40: 1280-1282.
38. Naor, A., **Stern, R.A.**, Peres, M., Greenblat, Y., Gal, Y. and Flaishman, M., 2005. Timing and Severity of post-harvest water-stress affects following year productivity and fruit quality of field-grown ‘Snow-Queen’ nectarine. *J. Amer. Soc. Hort. Sci.* 130: 806-812.
39. Dag, A., **Stern, R.A.** and Shafir, S. 2005. Honeybee (*Apis mellifera*) strains differ in apple (*Malus domestica*) pollen foraging preference. *J. Apic. Res.* 44: 15-20.
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## **ABSTRACTS PRESENTED AT SCIENTIFIC CONFERENCES**

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## **PATENT**

1. Patent application No. 60/953,098 (July 31, 2007) at the U.S. Patent and Trademark Office (USPTO): "**Use of uniconazole as a fruit thinning agent**".  
Inventors: Raphael Stern and Martin Goldway.
2. Patent application No. 61/056,202 (June 19, 2008) at the U.S. Patent and Trademark Office (USPTO): "**Method for improving colour in pome and stone fruits**".  
Inventor: Raphael Stern.