

HARRY STUART PARIS**May 31, 2018**CIRRICULUM VITAEPersonal

- 1951 Born in Brooklyn, New York City, New York, U.S.A.
1965-1969 High School education in Brooklyn, New York
1982 Military service in Zahal, the Israel Defense Forces

Marital status: Married with 4 children

University Education and Additional Training

- 1969-1973 B.Sc. in Biology at the State University of New York, College at New Paltz, New York, U.S.A. Graduated with high honors.
1973-1978 Ph.D. in Horticulture and Forestry, Rutgers University, New Brunswick, New Jersey, U.S.A. Thesis title: The pachytene chromosomes of the castor plant (*Ricinus communis* L.). Supervision by: Professor Oved Shifriss and Professor Gojko Jelenkovic.
1985-1986 Sabbatical leave at the Vegetable Crops Department, University of Florida, Gainesville, Florida, U.S.A., with Professor Daniel J. Cantliffe. Research subject: Concentrated yield muskmelons.
1991-1992 Sabbatical leave at the Agricultural Research and Education Center, University of Florida, Fort Pierce, Florida, U.S.A., with Professor Peter J. Stoffella. Research subject: The leaf silvering disorder of squash.
2010-2011 Sabbatical leave at the New York Botanical Garden, Bronx, New York, U.S.A., with Curator Michael H. Nee. Research subject: Botany and horticulture of *Cucurbita*.

Positions Held

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| 1973-1977 | Graduate research assistant at Rutgers University, New Brunswick, NJ U.S.A. |
| 1978-date | Research Scientist at the Agricultural Research Organization, Newe Ya'ar Research Center, Israel. |
| 1978-1985 | Research Scientist, Grade "C". |
| 1985-1986 | Adjunct Professor at the University of Florida, Gainesville, FL U.S.A. |
| 1985-1990 | Research Scientist, Grade "B". |
| 1988-1990 | Acting Head of Cucurbits Research Section, Newe Ya'ar Research Center. |
| 1990 | Acting Coordinator of Research, Newe Ya'ar Research Center. |
| 1990-1996 | Research Scientist, Grade "A". |
| 1991-1992 | Courtesy Professor at the University of Florida, Agricultural Research and Education Center, Fort Pierce, FL U.S.A. |
| 1996-date | Research Scientist, Grade "A1" (the highest rank). |

Training Experience

1. Student Guidance: Yosef Burger, M.Sc., The silvering disorder of summer squash: physiological and ecological aspects, 1987, co-supervisor, with Professor Amnon Schwartz, Faculty of Agriculture, Hebrew University of Jerusalem, Rehovot, Israel.
2. Student Guidance: Gelsomina Formisano, Ph.D., Molecular markers for facilitating introduction of disease resistance in *Cucurbita pepo*, 2009, co-supervisor, with Professor M.R. Ercolano, Department of Soil, Plant, Environmental and Animal Production Sciences, Federico II University—University of Naples, Portici, Italy.

Invited Lectures

- 2002 July 21–24, Institute of Plant Biotechnology, Tulln, Austria. Invitation of Prof. Dr. Tamas Lelley.
- 2007 December 10–11, Syngenta Seeds, Naples, Florida, U.S.A. Invitation of Dr. Gabriele Gusmini.
- 2008 March 14–19, Salon du Livre 2008, Paris, France. Invitation of Dr. Christian Énard, Muséum National d’Histoire Naturelle.
- 2009 July 19–23, Emperor Federico II University—University of Naples, Portici, Italy. Invitation of Prof. Dr. L. Frusciante.
- 2014 February 11, COST ACTION FA1204 Vegetable Grafting to Improve Yield and Fruit Quality Under Biotic and Abiotic Stress Conditions. Jerusalem, Israel. Invitation of Dr. Menahem Edelstein.

Membership on Scientific and Agricultural Committees

- 1984-1988 (3 years, excluding sabbatical year). Field & Garden Crops Research Proposal Evaluation Committee, for research proposals submitted for national, binational, and international funding.
- 1988-1990 Research and Governing Boards, A.R.O., Neve Ya'ar Research Center.
- 1996-1997 Steering Committee, Vegetable Breeders Working Group of the American Society for Horticultural Science
- 2000 Scientific Advisory Committee: Cucurbitaceae 2000, the 7th Eucarpia Meeting on Cucurbit Genetics and Breeding
- 2000-2004 Scientific Advisor, Agricultural Research & Development, Central Region of Israel
- 2000-date Gene List Committee, Cucurbit Genetics Cooperative
- 2004 Scientific Advisory Committee: Cucurbitaceae 2004, the 8th Eucarpia Meeting on Cucurbit Genetics and Breeding
- 2006 Scientific Advisory Committee: Cucurbitaceae 2006
- 2008 Scientific Advisory Committee: Cucurbitaceae 2008, the 9th Eucarpia Meeting on Cucurbit Genetics and Breeding
- 2009 Research Proposal Evaluation Committee, Development, of the Chief Scientist of the Ministry of Agriculture
- 2010 Scientific Advisory Committee: Cucurbitaceae 2010

- 2012 Scientific Advisory Committee: Cucurbitaceae 2012, the 10th Eucarpia Meeting on Cucurbit Genetics and Breeding
- 2016 Scientific Advisory Committee: Cucurbitaceae 2016, the 11th Eucarpia Meeting on Cucurbit Genetics and Breeding
- 2018 Scientific Advisory Committee: Cucurbitaceae 2018

Editorial Responsibilities

- 1984-date Reviewer of manuscripts for (1) *Theoretical & Applied Genetics*, (2) *Euphytica*, (3) *HortScience*, (4) *Journal of the American Society for Horticultural Science*, (5) *Plant Breeding*, (6) *Die Bodenkultur*, (7) *Israel Journal of Plant Sciences*, (8) *Proceedings of Cucurbitaceae 2006*, (9) *Cucurbitaceae 2008*, (10) *European Journal of Plant Pathology*, (11) *Scientia Horticulturae*, (12) *Archives of Natural History*, (13) *Plant Genetic Resources*, (14) *Proceedings of Cucurbitaceae 2010*, (15) *Horticultural Reviews*, (16) *New Zealand Journal of Botany*, (17) *Genetic Resources and Crop Evolution*, (18) *Plant Molecular Biology Reporter*, (19) *Biochemical Systematics and Ecology*, (20) *Notulae Botanicae Horti Agrobotanici Cluj-Napoca*, (21) *Vegetation History and Archaeobotany*, (22) *Proceedings of the National Academy of Sciences U.S.A*, (23) *Biodiversity and Conservation*, (24) *Ecology and Evolution*.
- 1984-date Reviewer of research proposals for:
1. U.S.-Israel Binational Agricultural Research and Development (B.A.R.D.)
 2. The Caribbean Basin Advisory Group (C.B.A.G.) of the U.S.D.A.
 3. International Foundation for Science (Sweden)
 4. United Nations University Institute for Natural Resources in Africa (UNU-INRA) (Ghana)
- 2000 Co-editor (with N. Katzir) of *Proceedings of Cucurbitaceae 2000: The 7th Eucarpia Meeting on Cucurbit Genetics and Breeding*. *Acta Horticulturae*, Volume 510. International Society for Horticultural Science, Leuven, Belgium (509 pp.).

- 2004 Co-editor (with A. Lebeda) of *Proceedings of Cucurbitaceae 2004: The 8th Eucarpia Meeting on Cucurbit Genetics and Breeding*. Palacký University, Olomouc, Czech Republic (566 pp.).
- 2011 Co-editor (with J. Janick, H. Nybom, and D.J. Cantliffe) of *Horticultural Reviews, Volume 38*. Wiley-Blackwell, Hoboken, NJ (429 pp.).
- 2016 Co-editor (with E.U. Kozik) of *Cucurbitaceae 2016 Program and Abstracts*. Warsaw, Poland (56 pp.).
- 2016 Co-editor (with E.U. Kozik) of *Proceedings of Cucurbitaceae 2016, 11th Eucarpia Meeting on Cucurbit Genetics and Breeding*. Wydawnictwo Sigma, Skierniewice, Poland (353 pp.).
- 2016 Editorial Board of *Proceedings of the International Symposium on Plant Breeding in Horticulture*, of the 29th International Horticultural Congress on *Horticulture: Sustaining Lives, Livelihoods, and Landscapes. Acta Horticulturae, Volume 1127*. International Society for Horticultural Science, Leuven, Belgium (526 pp.).

Participation in International Meetings and Functions

- 1982 79th Annual Meeting of the American Society for Horticultural Science, Iowa State University, Ames, IA U.S.A. (Speaker)
- 1984 Joint 81st Annual Meeting of the American Society for Horticultural Science and 29th Annual Meeting of the Canadian Society for Horticultural Science, Vancouver, British Columbia, Canada. (Attendee)
- 1985 Symposium on the Timing of Field Production of Vegetables sponsored by the International Society for Horticultural Science, Tampa, FL U.S.A. (Speaker, Session Moderator)
- 1986 5th Annual Florida Seedsmen's Seminar, Gainesville, FL U.S.A. (Attendee)
- 1987 84th Annual Meeting of the American Society for Horticultural Science, Orlando, FL U.S.A. (Speaker)
- 1988 16th International Congress of Genetics, Toronto, Ontario, Canada. (Attendee)
- 1989 86th Annual Meeting of the American Society for Horticultural Science, Tulsa, OK U.S.A. (Attendee)
- 1989 Biennial Collaborators' Conference of Vegetable Research in the southern United States, Hawaii, and Puerto Rico, Charleston, SC U.S.A. (Attendee)
- 1989 Cucurbitaceae 89: Evaluation and enhancement of cucurbit germplasm, Charleston, SC U.S.A. (Speaker)
- 1991 104th Annual Meeting of the Florida State Horticultural Society, Miami Beach, FL U.S.A. (Attendee)
- 1994 91st Annual Meeting of the American Society for Horticultural Science, Corvallis, OR U.S.A. (Speaker)
- 1994 Cucurbitaceae 94: Evaluation and enhancement of cucurbit germplasm. South Padre Island, TX U.S.A. (Speaker)
- 1996 Cucurbitaceae 96: Cucurbits Towards 2000, the 6th Eucarpia Meeting on Cucurbit Genetics and Breeding. Málaga, Spain. (Speaker)
- 1996 International Symposium on Domestication, Production and Utilisation of New Crops: Practical Approaches. Southampton, U.K. (Poster Presenter)
- 1996 93rd Annual Meeting of the American Society for Horticultural Science, Lexington, KY U.S.A. (Speaker)

- 1998 2nd International Conference on the Taxonomy of Cultivated Plants, Edinburgh, Scotland, U.K. (Attendee)
- 1998 Cucurbitaceae '98: Evaluation and Enhancement of Cucurbit Germplasm. Pacific Grove, CA U.S.A. (Speaker)
- 1999 1st International Oil Pumpkin Conference. Graz, Austria. (Attendee)
- 2000 Cucurbitaceae 2000, the 7th Eucarpia Meeting on Cucurbit Genetics and Breeding. Ma'ale Ha Hamisha, Israel. (Scientific Advisory Committee, Co-Editor of Proceedings, Session Moderator, Speaker)
- 2002 26th International Horticultural Congress & Exhibition. Toronto, Ontario, Canada. (Speaker)
- 2002 Cucurbitaceae 2002. Naples, FL U.S.A. (Speaker, Session Moderator)
- 2004 Cucurbitaceae 2004, the 8th Eucarpia Meeting on Cucurbit Genetics and Breeding. Olomouc, Czech Republic. (Scientific Advisory Committee, Co-Editor of Proceedings, Session Moderator, Speaker)
- 2005 2nd Joint Conference of the International Working Groups on Legume (IWGLV) and Vegetable Viruses (IWGVV). Fort Lauderdale, FL U.S.A. (Poster Presenter)
- 2006 Cucurbitaceae 2006. Asheville, NC U.S.A. (Scientific Advisory Committee, Manuscript Reviewer/Editor, Field Day Monitor, Speaker, Session Moderator, Award Recipient)
- 2008 1st Symposium on Horticulture in Europe. Vienna, Austria (Poster Presenter)
- 2008 Salon du Livre, 2008. Paris, France (Book Signer, Speaker)
- 2008 Cucurbitaceae 2008, the 9th Eucarpia Meeting on Cucurbit Genetics and Breeding. Avignon, France (Scientific Advisory Committee, Manuscript Reviewer/Editor, Speaker)
- 2010 28th International Horticultural Congress, International Society for Horticultural Science. Lisbon, Portugal (Attendee)
- 2010 Cucurbitaceae 2010. Charleston, SC U.S.A. (Scientific Advisory Committee, Manuscript Reviewer/Editor, Speaker)
- 2012 Cucurbitaceae 2012, the 10th Eucarpia Meeting on Cucurbit Genetics and Breeding. Antalya, Turkey (Scientific Committee)

- 2014 COST ACTION FA1204, Vegetable Grafting to Improve Yield and Fruit Quality Under Biotic and Abiotic Stress Conditions. Jerusalem, Israel (Guest Speaker)
- 2014 Oxford Symposium on Food & Cookery, 2014: Food & Markets. Oxford, U.K. (Speaker)
- 2014 29th International Horticultural Congress, International Society for Horticultural Science. Brisbane, Australia (Symposium 23: Plant Breeding in Horticulture; Scientific Committee, Editorial Board, Session Moderator, Speaker)
- 2015 Cucurbits 2015, 5th International Society for Horticultural Science Cucurbits Symposium. Cartagena, Spain (Session Moderator, Speaker)
- 2016 Cucurbitaceae 2016, the 11th Eucarpia Meeting on Cucurbit Genetics and Breeding. Warsaw, Poland (Scientific Advisory Committee, Co-Editor of Proceedings, Speaker, Session Moderator, Award Recipient)
- 2016 113th Annual Meeting of the American Society for Horticultural Science, Atlanta, GA U.S.A. (Speaker)
- 2016 20th Eucarpia General Congress. Zurich, Switzerland (Speaker)
- 2017 3rd International Conference on Food Chemistry and Technology (Speaker)

Membership in Professional Societies

Cucurbit Genetics Cooperative

International Society for Horticultural Science

Eucarpia

American Society for Horticultural Science

Research Grants

International Competitive Grants:

- 1980 B.A.R.D. grant. Title: Development of melons suitable for once-over harvest. Principal Investigator, for 3 years. Total \$205,000; Researcher's part \$36,000/year.
- 1984 B.A.R.D. grant. Title: Breeding and crop physiology of once-over harvest melons. Principal Investigator, for 3 years. Total \$195,000; Researcher's part \$33,000/year.
- 1985 B.A.R.D. grant. Title: Production system for once-over harvesting of cantaloupe. Cooperating Investigator, for 3 years. Total \$200,000; Researcher's part \$6,000/year.
- 2012 B.A.R.D. grant. Title: The role of RNA-dependent RNA polymerase 1 in plant virus Defense. Cooperating Investigator, for 3 years. Total \$360,000; Researcher's part \$2100.

National Competitive Grants:

- 2013 Chief Scientist's Grant. Title: Prevention of the development of chilling injury development during postharvest storage of fruits and vegetables, proposal no. 430-0544-14. Cooperating Investigator, for 3 years. Total 1,000,000 NIS/year (\$283,286/year). Researcher's part 35,000 NIS (\$9,210).
- 2016 Chief Scientist's Grant. Title: Grafted watermelon initiative: Watermelon fruit quality improvement by optimizing cultural practices and studying metabolic aspects, proposal no. 430-0598-16. Cooperating Investigator, for 3 years. Researcher's part 30,000 NIS (\$7,849).

Other Research Grants:

- 1986 Hazera' Seed Co. grant. Title: Basket of cucurbit products. Cooperating Investigator for 6 years. Budget: Total \$120,000/year; Researcher's part \$50,000/year.
- 1988 Sun World International Inc. grant. Title: Research and development of triploid watermelons. Cooperating Investigator for 3 years. Budget: Total \$102,000/year; Researcher's part \$40,000/year.
- 1990 Pioneer Hi-Bred International Inc. grant. Title: Squash Breeding. Principal Investigator for 2 years. Budget: Total \$30,000/year; Researcher's part \$30,000/year.
- 1993 ME Seed Co. grant. Title: Breeding Old World Types of Summer Squash. Principal Investigator for 6 years. Budget: Total \$65,000/year; Researcher's part \$65,000/year.

- 1994 Shuk Haklai Co. grant. Title: Breeding Vegetable Marrow-Type Squash for Greenhouse Production. Principal Investigator for 3 years. Budget: Total \$36,000/year; Researcher's part \$36,000/year.
- 1999 ME Seed Co. grant renewal. Principal Investigator for 5 years. Budget: Total \$75,000/year; Researcher's part \$75,000/year.
- 2005 Lillian Goldman Charitable Trust. Title: Breeding Sweet Acorn Squash. Principal Investigator for 3 years; Researcher's part \$21,200/year.
- 2008 Syngenta Seeds, Inc. Gift: For long-standing contributions to cucurbit genetics; \$32,500.
- 2008 Lillian Goldman Charitable Trust. Title: Preservation of *Cucurbita* species germplasm; 1 year, \$15,400.
- 2008 Lillian Goldman Charitable Trust. Title: Researching ancient cucurbits: the cucurbits of medieval Europe; 2 years @ \$10,600 per year.
- 2009 Genesis Seeds, Inc. Title: Maintenance and improvement of *Cucurbita pepo* germplasm at Newe Ya'ar: introduction of on-the-shelf hybrids by Genesis, Inc.; 2 years, @ \$15,000 per year.
- 2009 Origene Seeds, Inc. Title: Maintenance and improvement of *Cucurbita pepo* germplasm at Newe Ya'ar: introduction of on-the-shelf hybrids by Origene, Inc.; 2 years, @ \$15,000 per year.
- 2011 Lillian Goldman Charitable Trust. Title: Researching ancient cucurbits: The cucurbits of medieval Europe; 3 years @ \$32,250 per year.
- 2011 Lillian Goldman Charitable Trust. Title: Developing large, sweet acorn squash; 3 years @ \$32,250 per year.
- 2015 Syngenta, Inc. Title: Licensing of multiple-flowering zucchini squash; 1 year, \$30,000.
- 2015 Origene Seeds, Inc. Title: Licensing to "Origene" for production and sale of two hybrid acorn squash and two hybrid summer squash; 1 year, \$8400.
- 2016 Origene Seeds, Inc. Extension of Licensing, to a hybrid pumpkin; 1 year, \$1600.
- 2018 Origene Seeds, Inc. Extension of Licensing, to two hybrid zucchinis; 1 year, \$2625

TOTAL GRANTS: \$ 2,025,984

Awards and Scholarships

- 1969-1973 Recipient of New York State Board of Regents Scholarship
- 1973 Recipient of Brian Parsons Memorial Scholarship Award for Outstanding Senior Biology Major, State University of New York, College at New Paltz.
- 1996 Recipient of Bona Terra Foundation (Switzerland) Award for Guidance of High School Students' Final Projects
- 2006 Honorable Recognition bestowed by the Rector, Palacky University, Olomouc, Czech Republic, on the publication of *Proceedings of Cucurbitaceae 2004: Progress in Cucurbit Genetics and Breeding Research*
- 2006 Recipient of Lifetime Achievement Award for Outstanding Contributions to Breeding and Genetics of Cucurbits, at Cucurbitaceae 2006, Asheville, NC, USA
- 2016 Recipient of Lifetime Achievement Award for Outstanding Contributions to Breeding and Genetics of Cucurbits, at Cucurbitaceae 2016, Warsaw, Poland
- 2017 Recipient of Lifetime Achievement Award for 2016, Agricultural Research Organization, Volcani Center, Rishon LeZiyyon, Israel

Harry Stuart Paris

May 31, 2018

LIST OF PUBLICATIONS

“All publications have been classified into five major categories: The letter following each number indicates the appropriate category.

- a. Publications exclusively within the candidate’s research group (including graduate and post-graduate students, technicians, associated scientists, etc.).
- b. Joint publications with other research group(s) in which the candidate plays the major role.
- c. Joint publications with other research groups in which the candidate’s contribution is of comparable weight to that (those) of the other research groups.
- d. Joint publications with other research groups in which the candidate’s group plays a secondary role.

Articles in reviewed journals:

- 1.(a) **Paris, H.S.**, O. Shifriss, and G. Jelenkovic. (1978).
Idiogram of *Ricinus communis* L.
J. Hered. 69: 191–196.
- 2.(a) **Paris, H.S.**, O. Shifriss, and G. Jelenkovic. (1980).
Nucleolar organizing chromosomes of *Ricinus*.
Theor. Appl. Genet. 57: 145–152.
- 3.(a) **Paris, H.S.** (1981).
Pachytene chromosome morphology with reference to sex instability in *Ricinus communis* L.
Euphytica 30: 193–196.
- 4.(a) **Paris, H.S.** (1981).
Pachytene variations in *Ricinus*.
Genetica 55: 209–215.
- 5.(a) Shifriss, O. and **H.S. Paris**. (1981).
Identification of modifier genes affecting the extent of precocious fruit pigmentation in *Cucurbita pepo* L.
J. Amer. Soc. Hort. Sci. 106: 653–660.
- 6.(a) **Paris, H.S.** (1981).
Cytological observations of a primary nucleolar trisomic in *Ricinus communis* L.
Caryologia 34: 283–288.
- 7.(c) Nerson, H., D.J. Cantliffe, **H.S. Paris**, and Z. Karchi. (1982).
Low-temperature germination of birdsnest-type muskmelons.
HortScience 17: 639–640.
- 8.(a) **Paris, H.S.**, Z. Karchi, H. Nerson, and Y. Burger. (1983).
Yield and yield quality of precocious yellow zucchini cultivars.
HortScience 18: 724–726.
- 9.(a) Nerson, H., **H.S. Paris**, and Z. Karchi. (1983).
Characteristics of birdsnest type muskmelons.
Scientia Hort. 21: 341–352.
- 10.(a) **Paris, H.S.**, H. Nerson, and Z. Karchi. (1984).
Genetics of internode length in melons.
J. Hered. 75: 403–406.
- 11.(a) Nerson, H. and **H.S. Paris**. (1984).
Effects of salinity on germination, seedling growth, and yield of melons.

- Irrig. Sci.* 5: 265–273.
- 12.(a) **Paris, H.S.**, H. Nerson, Z. Karchi, and Y. Burger. (1985).
Inheritance of light pigmentation in squash.
J. Hered. 76: 305–306.
 - 13.(b) **Paris, H.S.**, T.G. McCollum, H. Nerson, D.J. Cantliffe, and Z. Karchi. (1985).
Breeding of concentrated-yield muskmelons.
J. Hort. Sci. 60: 335–339.
 - 14.(a) **Paris, H.S.**, H. Nerson, and Y. Burger. (1985).
Precocious PI 165561 and Precocious PI 165561 R pumpkin breeding lines.
HortScience 20: 778–779.
 - 15.(a) **Paris, H.S.**, Y. Burger, Z. Karchi, and H. Nerson. (1985).
‘Benning’s Yellow Tint’ summer squash.
HortScience 20: 785–786.
 - 16.(a) **Paris, H.S.**, H. Nerson, and Y. Burger. (1985).
Precocious Caserta summer squash breeding line.
HortScience 20: 786.
 - 17.(c) Nerson, H., **H.S. Paris**, Z. Karchi, and M. Sachs. (1985).
Seed treatments for improved germination of tetraploid watermelon.
HortScience 20: 897–899.
 - 18.(d) Schaffer, A.A., C.D. Boyer, and **H.S. Paris**. (1986).
Inheritance of rind lignification and warts in *Cucurbita pepo* L. and a role for phenylalanine ammonia lyase in their control.
Z. Pflanzenzucht. 96: 147–153.
 - 19.(a) **Paris, H.S.**, H. Nerson, and Z. Karchi. (1986).
Yield and yield quality of courgette as affected by plant density.
J. Hort. Sci. 61: 295–301.
 - 20.(a) **Paris, H.S.**, H. Nerson, and N. Zass. (1986).
Effects of gene *B* in *Cucurbita moschata*.
HortScience 21: 1036–1037.
 - 21.(a) **Paris, H.S.**, H. Nerson, and Z. Karchi. (1986).
Effect of fruit color on harvest speed of zucchini.
Canad. J. Plant Sci. 66: 811–815 (En./Fr.).
 - 22.(d) Schaffer, A.A., **H.S. Paris**, and I.M. Ascarelli. (1986).
Carotenoid and starch content of near-isogenic B^+B^+ and BB genotypes of *Cucurbita*.
J. Amer. Soc. Hort. Sci. 111: 780–783.
 - 23.(a) **Paris, H.S.** and H. Nerson. (1986).
Genes for intense pigmentation of squash.
J. Hered. 77: 403–409.
 - 24.(a) **Paris, H.S.**, H. Nerson, and Z. Karchi. (1986).
Branching of birdsnest-type muskmelons.
Crop Res. 26: 33–40.
 - 25.(d) McCollum, T.G., D.J. Cantliffe, and **H.S. Paris**. (1987).
Flowering, fruit set, and fruit development in birdsnest-type muskmelons.
J. Amer. Soc. Hort. Sci. 112: 161–164.
 - 26.(a) **Paris, H.S.**, H. Nerson, and Y. Burger. (1987).
Leaf silvering of *Cucurbita*.
Canad. J. Plant Sci. 67: 593–598.

- 27.(a) Nerson, H. and **H.S. Paris**. (1987).
Effects of plant type and growth regulators on the flowering, fruiting, and yield concentration of melon.
Crop Res. 27: 19–30.
- 28.(d) Sherman, M., **H.S. Paris**, and J.J. Allen. (1987).
Storability of summer squash as affected by gene *B* and genetic background.
HortScience 22: 920–922.
- 29.(a) Nerson, H., **H.S. Paris**, M. Edelstein, Y. Burger, and Z. Karchi. (1988).
Breeding pickling melons for a concentrated yield.
HortScience 23: 136–138.
- 30.(b) **Paris, H.S.**, H. Nerson, Y. Burger, M. Edelstein, Z. Karchi, T.G. McCollum, and D.J. Cantliffe. (1988).
Synchrony of yield of melons as affected by plant type and density.
J. Hort. Sci. 63: 141–147.
- 31.(b) **Paris, H.S.**, S. Cohen, Y. Burger, and R. Yoseph. (1988).
Single-gene resistance to zucchini yellow mosaic virus in *Cucurbita moschata*.
Euphytica 37: 27–29.
- 32.(a) Nerson, H. and **H.S. Paris**. (1988).
Effects of fruit age, fermentation, and storage on germination of cucurbit seeds.
Scientia Hort. 35: 15–26.
- 33.(a) **Paris, H.S.** (1988).
Complementary genes for orange fruit flesh color in *Cucurbita pepo*.
HortScience 23: 601–603.
- 34.(c) Burger, Y.**, A. Schwartz, and **H.S. Paris**. (1988).
Physiological and anatomical features of the silvering disorder of *Cucurbita*.
J. Hort. Sci. 63: 635–640.
- 35.(a) Edelstein, M., **H.S. Paris**, and H. Nerson. (1989).
Dominance of the bush growth habit in spaghetti squash.
Euphytica 43: 253–257.
- 36.(b) **Paris, H.S.**, A.A. Schaffer, I.M. Ascarelli, and Y. Burger. (1989).
Heterozygosity of gene *B* and the carotenoid content of *Cucurbita pepo*.
Crop Res. 29: 11–18.
- 37.(a) **Paris, H.S.** and Y. Burger. (1989).
Complementary genes for fruit striping in summer squash.
J. Hered. 80: 490–493.
- 38.(a) **Paris, H.S.** (1989).
Historical records, origins, and development of the edible cultivar groups of *Cucurbita pepo* (Cucurbitaceae).
Econ. Bot. 43: 423–443.
- 39.(a) **Paris, H.S.** (1992).
A recessive, hypostatic gene for plain light fruit coloration in *Cucurbita pepo*.
Euphytica 60: 15–20.
- 40.(b) **Paris, H.S.**, P.J. Stoffella, and C.A. Powell. (1993).
Sweetpotato whitefly, drought stress, and leaf silvering of squash.
HortScience 28: 157–158.
- 41.(a) **Paris, H.S.** (1993).
‘Orangetti’ squash in field, market, and kitchen.
HortTechnology 3: 95–97.

- 42.(b) **Paris, H.S.**, P.J. Stoffella, and C.A. Powell. (1993).
Differential susceptibility to leaf silvering in *Cucurbita pepo*.
HortScience 28: 657–658.
- 43.(c) Cohen, R., G. Leibovich, D. Shtienberg, and **H.S. Paris** (1993).
Variability in the response of squash (*Cucurbita pepo*) to inoculation with
Sphaerotheca fuliginea and methodology of breeding for resistance.
Plant Pathology 42: 510–516.
- 44.(d) Sonoda, R.M., **H.S. Paris**, T.S. Shubert, and N.E. Elgholl. (1993).
Fruit rot of squash cv. Orangetti in Florida.
Plant Disease 77: 847.
- 45.(d) Powell, C.A., P.J. Stoffella, and **H.S. Paris**. (1993).
Plant population influence on squash yield, sweetpotato whitefly, squash silverleaf,
and zucchini yellow mosaic virus.
HortScience 28: 796–798.
- 46.(b) **Paris, H.S.**, P.J. Stoffella, and C.A. Powell (1993).
Susceptibility to leaf silvering in the cultivar groups of summer squash.
Euphytica 69: 69–72.
- 47.(a) **Paris, H.S.** (1996).
Summer squash: history, diversity, and distribution.
HortTechnology 6: 6–13. (Featured Review Article.)
- 48.(a) **Paris, H.S.** (1996).
Multiple allelism at the *D* locus in squash.
J. Hered. 87: 391–395.
- 49.(a) Leibovich, G., R. Cohen and **H.S. Paris**. (1996).
Shading of plants facilitates selection for powdery mildew resistance in squash.
Euphytica 90: 289–292.

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Registered/Commercialized Hybrids.

1. **Paris, H.S.**, Z. Karchi, H. Nerson, M. Edelstein, D. Freudenberg, and A. Govers.
Summer squash – **GOLDY (Hybrid 33)**. *Registered*. Released in 1983. ‘Goldy’ is a distinctive hybrid zucchini, having gleaming, golden-yellow fruits of extra-refined appearance, that are cylindrical, long, and slender, and slow to increase in diameter. Plants are small but are early-maturing, vigorous, nearly spineless, and have an open growth habit. The combination of open habit and contrasting fruit color permits much faster harvesting of the crop than in any other variety.
2. **Paris, H.S.**, Z. Karchi, H. Nerson, D. Lozner, Y. Burger, M. Edelstein, and A. Govers.
Summer squash – **BAREQET (Hybrid 96)**. *Registered*. Released in 1986. ‘Bareqet’ is a vigorous hybrid zucchini having intensely green fruits which are long, slender, and attractive with high gloss. Foliar characteristics identical to those of ‘Goldy’.
3. **Paris, H.S.**, Z. Karchi, H. Nerson, M. Edelstein, Y. Burger, D. Lozner, and A. Govers.
Winter squash -- **GO-GETTI (Hybrid 126)**. *Registered*. Released in 1986. The first hybrid spaghetti squash, early-ripening and having bush plants. Has an easily discernable ripeness indicator: exterior of immature fruit is bicolor, orange and green; the green fades to orange when the fruit is ripe. Cream-colored “spaghetti” interior.
4. **Paris, H.S.**, Z. Karchi, H. Nerson, Y. Burger, M. Edelstein, D. Lozner, and A. Govers.
Winter squash – **ORANGETTI (Hybrid 128)**. *Registered*. Released in 1986. Early ripening, bush plants. Fruit exterior is intense orange and the “spaghetti” interior is likewise intense orange, having 15 times the provitamin A of other spaghetti squash.
5. Karchi, Z., A. Govers, **H.S. Paris**, and H. Nerson.
Watermelon -- **HAGGAY**. *Registered*. Released in 1988. A hybrid for dryland production. Attains large size (averaging 7 kg.) even without irrigation. Rind light green with broad dark green stripes, flesh red, small brown seeds.
6. Karchi, Z., A. Govers, **H.S. Paris**, and H. Nerson.
Watermelon -- **OMER**. *Registered*. Released in 1988. A hybrid for dryland production. Medium size (averaging 5 kg.) fruit, rind dark green with broad darker green stripes, flesh intense red, small, dark brown seeds.
7. **Paris, H.S.**, Burger, Y., H. Nerson, Z. Karchi, and M. Edelstein.
Melon -- **QALYA**. *Registered*. Released in 1989. A Galia-type muskmelon having a concentrated yield and fruits which are 30% more numerous and smaller than ‘Galia’-- ideal for export. Early maturing.
8. Burger, Y., **H.S. Paris**, H. Nerson, and M. Edelstein.
Melon -- **GALIT**. Released in 1990. Closely resembles “‘Arava’ but is even earlier and has smaller fruits.

9. **Paris, H.S.**, Y. Burger, H. Nerson, and M. Edelstein.

Summer squash – **NOVA (Hybrid 368)**. Released in 1992. A scallop-type summer squash having bicolor fruits. Fruits are intensely yellow and green, being completely green under some environmental conditions. Fruits have a long, narrow peduncle, small blossom scar, and long shelf life. As they had a deep-scallop shape they are ideal for stuffing. Plants are very small and recommended for high-density planting. Growth habit is more open and foliage is smoother than other cultivars of this type.

10. **Paris, H.S.**, G. Leibovich, R. Cohen, H. Nerson, and M. Edelstein.

Summer squash – **OFEQ (Hybrid 663)**. Released in 2001. A zucchini-type summer squash having extremely dark, intense-colored fruits. Plants are small, open, and nearly spineless. Fruits are perfectly cylindrical, with a long, narrow peduncle and small blossom scar. Yields are higher and shelf-life longer than other zucchinis. Has some tolerance to powdery mildew.

11. **Paris, H.S.**, G. Leibovich, R. Cohen, H. Nerson, and M. Edelstein.

Summer Squash – **ÀROMA (Hybrid 629)**. Released in 2003. A cocozelle-type summer squash having striped fruits and real “old-time” flavor. Fruits are very long and narrow, bulbous at the distal end, with broad intense-colored stripes contrasting with narrow light-colored stripes. Plants are much more open and less prickly, but the fruits are similar in appearance and in their rich, green-vegetable flavor to those of the Italian heirloom cocozelles. This hybrid is early, easy-to-pick, and high-yielding, and has some resistance to powdery mildew.

12. **Paris, H.S.**

Winter Squash – **TABLE SUGAR (Hybrid 1700)**. *Registered*. Released in 2007. A small-fruited (400 g) acorn squash, turbinate and furrowed, with a black exterior. When the fruits are fully ripe, the mesocarp (flesh) is orange-yellow and extremely sweet, average soluble solids content of 16%. An entirely new product: sweet acorn squash. Plants are resistant to powdery mildew, helping to ensure ultimate fruit sweetness. Given their black fruit rind, the fruits store very well, for two months or more.

13. **Paris, H.S.**

Pumpkin – **BUSH LUXURY (Hybrid 1581)**. Released in 2007. A small (2-1/2—3 kg.), attractive orange pumpkin, oblate with a netted skin and thick orange flesh. Similar to ‘Winter Luxury’ but its plants are more compact and bushy. A good yielder, ‘Mini-Pum’ ripens its fruits about 95 days from planting. This is about a month and a half earlier than the traditional large pumpkins grown in Israel and yet the quality and culinary adaptation are similar. Its convenient size easily allows the consumer to buy a whole pumpkin, rather than cut pieces. As it keeps for weeks or even a month or two, ‘Mini-Pum’ is dual-purpose, suitable both as an ornament and as an esculent.

14. **Paris, H.S.**

Summer squash – **G-STAR (Hybrid 1450)**. Released in 2008. A scallop squash having intensely green fruits. Plants are vigorous, non-branching, open, early bearing and extremely productive. The fruits are very shiny, overall rich intense green, of firm texture and nicely flavored, and have a long shelf life. Sold abroad, known under various names in the seed trade.

15. Paris, H.S.

Summer squash – **Y-STAR (Hybrid 1566)**. Released in 2008. A scallop squash having bicolor, green and yellow fruits. Plants are vigorous, non-branching, open, early bearing and extremely productive. The fruits are very shiny, medium green and yellow, of firm texture and nicely flavored. Sold abroad, known under various names in the seed trade.

16. Paris, H.S.

Summer squash – **NIZZAN (Hybrid 1662)**. *Registered and patented under United States Patent No. 9,826,690 B2 (2017)*. A cocozelle-type summer squash having light green fruits. As with other cocozelles, the fruits are long, bulbous at the distal end, but the plants are open and less prickly. This hybrid is early, its fruits are easy-to-pick, and has some resistance to powdery mildew and zucchini yellow mosaic. This hybrid has been submitted for patenting because it possesses the unique trait of bearing more than one flower bud per leaf axil, it is the first cocozelle to have this trait.

17. Paris, H.S.

Summer squash – **MULTIZUQ (Hybrid 1767)**. *Registered and patented under United States Patent No. 9,826,690 B2 (2017)*. A zucchini-type summer squash having intensely green fruits. As with other zucchinis, the fruits are uniformly cylindrical. The plants are open and nearly smooth. This hybrid is early, its fruits are easy-to-pick, and has some resistance to powdery mildew. This hybrid has been submitted for patenting because it possesses the unique trait of bearing more than one flower bud per leaf axil, it is the first zucchini to have this trait.

18. Paris, H.S.

Winter Squash – **TABLE CONFECTION (Hybrid 2005)**. Released in 2017. A large-fruited (800 g) acorn squash, turbinate with strongly expressed ridges and furrows, and a black exterior. When the fruits are fully ripe, the mesocarp (flesh) is yellow and very sweet with flavor reminiscent of roasted chestnuts, average soluble solids content of 15%. Plants are resistant to powdery mildew, helping to ensure ultimate fruit sweetness. Given their black fruit rind, the fruits store very well, for two months or more.

19. Paris, H.S.

Winter Squash – **TABLE PASTRY (Hybrid 2054)**. Released in 2018. A medium-size (600 g) acorn squash, turbinate with distinct ridges and furrows, and a black exterior. When the fruits are fully ripe, the mesocarp (flesh) is orange-yellow and extremely sweet, average soluble solids content of 16%. Plants are resistant to powdery mildew, helping to ensure ultimate fruit sweetness. Given their black fruit rind, the fruits store very well, for two months or more.

Patents.

1. **Paris, H.S.** (2017). *Cucurbita pepo* hybrids. The present invention, in some embodiments thereof, relates to a *Cucurbita pepo* hybrid having more than one flower/fruit per node as in *Cucurbita pepo* subsp. *texana*, the fruit of the plant having the phenotype of that of *Cucurbita pepo* subsp. *pepo*. United States Patent No. 9,826,690 B2. Nov. 28, 2017.

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Harry Stuart Paris

May 31, 2018

LIST OF MAJOR ACHIEVEMENTS

Over my 40-year career with the A.R.O., 1978–2018, I devoted myself to research into the genetics of economically important traits of cucurbits, research into the history and developmental trends of the horticultural groups of these crops, breeding improved cultivars, and field investigations of cultural practices best suited to the newly developed cultivars. These topics run the gamut from basic research to applied technology. As acquired knowledge or progress in any one of them contributes directly to furthering one or more of the others, I have approached them simultaneously. Thus, it is quite difficult for me to draw the borderline distinguishing “general contribution to agricultural science” and “achievement in applied research”.

1. General contribution to agricultural sciences.

I have studied the genetics of disease resistance, internode length, fruit flesh color and carotenoid content, and especially fruit exterior color of cucurbits. Over the course of my career, I have identified and/or described the phenotypic effects and interactions of the following genes in *Cucurbita pepo* (the species which includes all summer squash and some pumpkins and winter squash, and is one of the ten economically most important vegetable crops worldwide): *D*, *ep-1*, *ep-2*, *l-1*, *l-2*, *mo-1*, *mo-2*, *pl*, *qi*, *W*, and *Wf* and have shown by allelism tests that three of these, *D*, *l-1*, and *l-2*, are multiple-allelic loci. All of these genes have economic importance and one, gene *D*, has been quite useful to me and probably to other breeders too, as a seedling marker for testing purity of hybrid seed production. The identification and interactions of these genes were presented in reviewed publications nos. 5, 12, 23, 33, 37, 39, 48, 50, 54, 55, 59, 61, and 75. Reviewed publication no. 23 has been the foundation of much of my work on inheritance in *C. pepo* and has been cited repeatedly by colleagues. The results of my investigations into the genetics of internode length in melons (reviewed no. 10) and the inheritance of resistance to a particularly destructive virus in squash and pumpkins (reviewed no. 31) have also been cited repeatedly by other cucurbit breeders and geneticists. I have identified three complementary genes, *Zym-1*, *Zym-2*, and *Zym-3*, that confer resistance to this virus in zucchini squash (reviewed no. 56). I have cooperated with scientists and their students in Austria and Italy in researching and developing pumpkin and squash germplasm with resistance to viruses. Together with a colleague in the U.S.A., I have compiled a gene list for *Cucurbita* (reviewed no. 66).

In researching the history and horticultural development of cucurbit crops, I have concentrated on *Cucurbita pepo*. The results have been presented in several publications (reviewed nos. 38 & 47; non-reviewed nos. 37 & 38; book chapter/invited review no. 4). My classification of the horticultural groups of *C. pepo*, published in *Phytologia* in 1986 (non-reviewed no. 38 and cited in over 100 publications), was the first to consider both, the Old World and the New World forms of this species, and has become accepted by and useful to cucurbit specialists worldwide. This thesis was subjected to rigorous testing years later with the latest techniques for revealing DNA polymorphisms. The results obtained using these techniques, from experiments conducted together with colleagues at the A.R.O. (reviewed no. 62) and independently by peers working elsewhere, were quite supportive of this horticultural classification. My research into historical information concerning crop diversification led to my discovery in France of the authoritative botanical publication on the genus *Cucurbita* (reviewed no. 52) and long-lost illustrative material concerning the development of *C. pepo* as a food crop (reviewed no. 53). I have written a book about these discoveries, upon invitation by the Muséum National d'Histoire Naturelle, Paris, France. The manuscript for the book was completed, went through peer review to two specialists, and was revised, and then edited in English and French, and revised. It was issued on October 31, 2007 (Books and Book Chapters/Invited Reviews no. 8). Reviewed no. 70, reporting on the first known image of *Cucurbita* in Europe, was third on the 21 September 2006 list of Most Viewed Papers in Plant Biology.

Research into improved cultural practices for summer squash led to the identification and first description in the English language of a serious disorder of this crop, leaf silvering, in non-reviewed publication no. 18 and reviewed publication no. 26. Silvering, a potentially crop-devastating disorder in Israel, has now been observed in many parts of the world, and these two publications have been cited in publications by colleagues from several countries.

2. Achievements in applied research specifying major contributions to agriculture in Israel and abroad.

Understanding of crop history, development, and genetics has fostered a more focused and judicious effort in plant breeding. Some of the resulting developments exhibit striking changes in plant size and/or architecture, making necessary the modification of cultural practices. Thus descriptions of new cultivars have been accompanied by principles of

alteration of cultural practices in publications to Israeli farmers in the Hebrew-language monthlies *Hassadeh* and *Gan, Sade uMesheq*.

Among the characteristics that I have bred for and improved, while working with melons, watermelons, squash and pumpkins, are improved appearance and eating quality, increased provitamin A content, improved plant architecture, disease resistance, and adaptation to reductions in inputs of land area, fertilization and irrigation. I have bred and released a number of hybrids to private sources as well as breeding lines to the general public.

The ‘Goldy’ yellow zucchini squash was the first hybrid that I developed (non-reviewed publication no. 13). Since its release in 1983, ‘Goldy’ has been recognized worldwide as setting the standard for fruit appearance and quality in yellow zucchini. Besides the beautiful fruits, the plants of ‘Goldy’ are relatively small and have an open growth habit, heritable characteristics which allow for close spacing and high yields per unit area, as described to Israeli farmers (non-reviewed no. 34). Even after 30 years, seeds of ‘Goldy’ are still being produced by two Israeli companies and are sold by a number of seed companies abroad. Newer summer squash developments are ‘Ofeq’ zucchini, which has beautiful, shiny, elegant, very intense green fruits on small plants, and ‘G-Star’ scallop (patisson) squash, which has brilliantly shiny, beautifully scalloped intense green fruits. Both of these new hybrids are highly productive and ‘Ofeq’ has some resistance to powdery mildew. ‘Àroma’ cocozelle, another good producer, has extremely long, shiny, boldly striped fruits that are highly nutritious and richly flavored, borne on open plants that have some resistance to powdery mildew and watermelon mosaic virus.

‘Orangetti’, together with ‘Go-Getti’, released in 1986, were the first hybrid spaghetti squash (non-reviewed no. 29). ‘Orangetti’ apparently is the first Israeli vegetable sold in the U.S.A. under its own name. ‘Orangetti’ has appeared in supermarkets and fruit and vegetable stores across the U.S.A, recognized as having improved flavor and a new, more attractive color than the old, light yellow spaghetti squash, as well as 15-fold as much provitamin A. At the outset, the concept of orange spaghetti squash was theoretical, but it was brought into fruition by the bringing together of four fruit color genes, *B*, *D*, *L-1*, and *L-2* (from research described in reviewed publications nos. 23, 33 & 36) into the spaghetti squash genetic background. The idea of flavorful, attractive, orange spaghetti squash high in provitamin A has induced American seed companies to embark on breeding their own orange spaghetti squash cultivars, such as ‘Hasta La Pasta’ and ‘Hi-Beta Gold’. Newest developments are a sweet acorn squash, ‘Table Sugar’, and a semi-bush pumpkin, ‘Bush Luxury’, which were

grown on a commercial scale for the first time in 2007. Initial consumer reaction to them was positive. 'Table Sugar' is highly acclaimed and can be found in many supermarkets in Israel.

I have bred early, concentrated-yield melons, culminating in the release of 'Qalya' in 1989 (non-reviewed no. 45). As 'Qalya' is highly branched with short internodes, farmers were informed that modification of cultural practices was advantageous (non-reviewed no. 47). This hybrid was exploited in the unique cultural niche of dryland, organic farming in northern Israel for export to Europe during early summer. I have also participated in the breeding of dryland watermelons with larger size and improved quality, with two hybrids being released in 1988; these hybrids can be expected to become increasingly valuable as water resources become increasingly scarce.

I have publically released improved germplasm of pumpkins and squash (reviewed publications nos. 14, 15, & 16 in *HortScience*) and have received and answered the resulting scores of requests for seeds.

I have been the recipient of over \$2,000,000 in grants, nearly all of that as Principal Investigator. With the exception of B.A.R.D. and small sums from national grants, the money has been in the form of gifts and contracts from sources outside of the Ministry of Agriculture and therefore not competing with other agricultural research and development programs for the very limited, fixed income of the Ministry. Three of the grants have been from foreign investors. Thus the breeding work, especially that with squash, has attracted considerable foreign investment to Israeli agricultural development.

Contracts such as these are the basis for future agricultural development of vegetable crops in Israel, including squash, because of the booming worldwide market for the very best hybrid seeds on one hand and high cost of shipping of fresh vegetables to distant markets on the other. The basis of all contracts with investors has been the granting of exclusive rights to produce and sell seeds of hybrids developed during the contract period. Only hybrid cultivars are produced so as to better safeguard the investment for the A.R.O., the investors, and the growers. Not only will such contracts allow for the continued development of improved hybrid cultivars for Israeli farmers and the general public, they also provide Israeli farmers with exclusive products requiring a higher level of expertise and education to be produced properly, thereby providing our farmers with an advantage over those in other countries which perhaps can produce the product more cheaply but cannot consistently reach the level of purity and performance demanded by the seed industry. Thus Israeli growers have benefitted and will continue to benefit from growing seeds of the newly developed varieties.



Fruits of some squash hybrid cultivars that I have bred.

Top row: 'Goldy' zucchini squash (Hybrid 33)', 'G-Star' scallop squash (Hybrid 1450), 'Ofeq' zucchini squash (Hybrid 663).

Center row: 'Àroma' cocozelle squash (Hybrid 629), collection of fruits from 8 hybrid cultivars of cocozelle, zucchini, scallop, and vegetable marrow squash.

Bottom row: 'Orangetti' spaghetti squash (Hybrid 128) and 'Table Sugar' acorn squash (Hybrid 1700).