

Name Chaim Frenkel

Department of Plant Biology and Pathology
Building name, Cook College, Rutgers University

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Professional Preparation:

Undergrad

Major: Agriculture Degree: B.S. Year: 1958

Graduate study

Specialization: Post Harvest Physiology

Degree: M.S. Year: 1961

Degree: Ph.D. Year: 1966

Professional Appointments:

1979 - Present, Professor, Rutgers-The State University of New Jersey

Aug 1997-July 1998, Sabbatical leave, Israel Institute of Technology, Haifa, Israel

Jan. - Dec. 1982, Sabbatical leave, Israel Institute of Technology, Haifa

The Weizman Institute for Science, Rehovot, Israel

1975 - 1979, Associate Professor, Rutgers-The State University of New Jersey

Jan. 1974 - July 1975, Sabbatical leave, The Hebrew University, Jerusalem, Israel

1969 - 1975, Assistant Professor, Rutgers-The State University of New Jersey

1968 - 1969, Research Investigator, Department of Horticulture

Rutgers-The State University of New Jersey

1966 - 1968, Postdoctoral Fellowship, Department of Horticulture

Michigan State University

Scholarly articles (limited to 10 of the most significant in the last 5 years):

Authors. Year. Title. Journal name and volume: pages.

Kirtikara KM, Schaich KM, Fagan JM, Frenkel C (1995) Rapid method for preparation of pure veratryl alcohol for assay of lignin peroxidase. *Microbiological Methods* 23:253-259

Frenkel C, Erez A (1996) Induction of chilling tolerance in cucumber (*Cucumis sativus* L.) seedlings by endogenous and applied ethanol. *Physiologia Plantarum* 96:593-600

Frenkel C, Callahan AM (1997) Fruit ripening: a stress acclimation phenomenon? *Agro's Annual Review of Plant Physiology* III: 37-82

Frenkel C, Peters JS, Tieman DM, Tiznado ME, Handa AK (1998) Pectin methylesterase regulates methanol and ethanol accumulation in ripening tomato (*Lycopersicon esculentum*) fruit. *J Biol Chem* 273:4293-4295

Erez A, Cohen E, Frenkel C (2002) Oxygen-mediated cold acclimation in cucumber

(*Cucumis sativus* L.) seedlings. *Physiologia Plantarum* 115:541-549

Havkin-Frenkel D, French JC, Pak FE, Frenkel C (2003) Botany and Curing of Vanilla. *Proc Hort Soc Hort Sci*, In press

Books edited:

Editors. Year. Title. Publisher. Number of Pages.

YY Leshem, AH Halevy, C Frenkel, eds, 1982, Processes and Control of Plant Senescence. Yakhdav Publish Comp. Tel-Aviv, (In Hebrew).

YY Leshem, AH Halevy, C Frenkel, eds, 1986, Plant Senescence., Elsevie/North-Holland Biomedical Press, Amsterdam

D Havkin-Frenkel, C Frenkel, eds, VANILLA. Allurd Publications, In Press

Collaborations (last five years and excluding Rutgers investigators):

Callahan, A, USDA, Kernsville, WV

Cohen E, ARO, Bet Dagan, Israel

Erez A, ARO, Bet Dagan, Israel

Gilboa H, Israel Institute for Technology, Haifa, Israel

Handa A, Purdue University, Lafayette, IN

Major Funding (last five years, include names of co-PIs):

May 2002 –August 2002 Church & Dwight, Inc.

‘Remediation of Volatile-Induced Browning in Harvested Lettuce by Bin Liner’

\$ 26,000.00

Major Extension Program Accomplishments (limit to top 5 for last 5 years):

Major Teaching Responsibility in Graduate or Undergraduate Courses (limit to 5 courses for last 5 years):

Perspectives in Agriculture and the Environment 101 3 credits 1995 to present

Food Science Fundamentals II (contributed lectures) 16:400:514 3 credits 15 years

Plant Physiology 16:765:501 3 credits (contributed lectures) 15 years

Major Extension Teaching Responsibility (list limited to 5 major items or categories for last 5 years):

Graduate Students (last five years):

List in alpha order (last name, first initial) and include thesis topic

Se Young, Ju, Factors Affecting Hydration of Fatty Acids: A model for understanding the role of membrane-lipid in chilling stress and tolerance

Postdoctoral Associates (last five years):

Major Service Activities (List up to 5):

CO-Organizer Gordon Research Conference on 'Interfacial Water in Cell Biology'
June 6-11, 2004, Mount Holyoke College, MA