

CURRICULUM VITAE

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Education

	<u>Degree Received</u>	<u>Year of Degree</u>
University of Alberta, Edmonton, Alberta, Canada	Ph.D.	1974
University of Manitoba, Winnipeg Manitoba, Canada	M.S.	1969
Nanyang University, Singapore	B.S.	1964

Administrative Responsibilities

- 1992—2001(June): Chair, Plant Science Department, Rutgers University
- 1988---present: Director, Asparagus Improvement Program, Rutgers University
- 1985--1991: Director, Horticulture Graduate Program
Rutgers University, New Brunswick, New Jersey

Affiliated position

Honorary Professor, Chinese Academy of Agricultural Sciences

List of Publications

1. Xing, J.S., C. Chin. Modification of Fatty Acids in Eggplant Affects Its Resistance to *Verticillium dahliae*. *Physiological and Molecular Plant Pathology*. 56: 217-225 (2000)
2. Wang, C., C. Chin, and T. Gianfagna. Relationship of Cutin Monomers and Tomato Resistance to Powdery Mildew Infection. *Physiological and Molecular Plant Pathology*. 57: 55-61(2000)

3. Pedapudi S., C. Chin, H. Pedersen. Production and Elicitation of Benzalacetone and the Raspberry Ketone in Cell Suspension Cultures of *Rubus idaeus*. *Biotechnology Progress*. 16: 346-349. (2000).
4. Chen, Y., J. Xing, C. Chin C. Ho. Effect of urea on volatile generation from Maillard reaction of cysteine and ribose. *Journal of Agricultural and Food Chemistry*. 48: 3512-3516 (2000).
5. Zhu N., Rafi, M. M., DiPaola, R. S., Xing, J. S., Chin, C-K, Badmaev, V. Ghai, G., Rosen, R.T., Ho C-T. Isolation and Characterization of a Bioactive Fraction from Gum Guggul (*Commiphora wightii*) *Phytochemistry*. 56: 723-727 (2001)
6. Wang C, J. S. Xing, C. Chin, C. Ho, C. E. Martin. Modification of fatty acids changes the flavor volatiles in tomato leaves. *Phytochemistry*, 58: 227-232 (2001).
7. Sun, R., Sacalis, J. N. Chin, C., Still, C. Bioactive aromatic compounds from leaves and stems of *Vanilla fragrans*. *Journal of Agricultural and Food Chemistry*. 49: 5161-5164 (2001).
8. Sang, S, A. Lao, Y. Wang, C. Chin, R. T. Rosen, C. T. Ho. Antifungal constituents from the seeds of *Allium fistulosum* L. *Journal of Agricultural and Food Chemistry*. 50: 6318-6321 (2002)
9. Wang C., C. Chin, Xing J. S. Peters, J. Fatty acids with certain structural characteristics are potent inhibitors of germination and inducers of cell death of powdery mildew spore. *Physiological and Molecular Plant Pathology*. 61: 151-161 (2002).
10. Chin C., S. A. Garrison, C. T. Ho, M. Y. Huang, Y.. Shao., M. Wang, and J. Simon Functional Elements from Asparagus for Human Health. *Acta Horticultura*. 589: 233-242 (2002)
11. Sun R., Y. Wang, C. Chin, and S. A. Garrison. Volatile Compounds in Asparagus *officinalis* L. *Acta Horticultura*. 589: 257-266 (2002)
12. Peters J., C. Chin. Inhibition of photosynthetic electron transport by palmitoleic acid is partially correlated to release of thylakoid membrane proteins. *Plant Physiology and Biochemistry*. 41: 117-124 (2003)
13. Wang M, Y. Tadmor, Q. L. Wu, C. K. Chin, S. A. Garrison and J. E. Simon. Characterization and Quantification of Major Steroidal Saponins and Flavonoids in Asparagus Shoots by LC/MS and HPLC Methods. *Journal of Agricultural and Food Chemistry* . 51: 6132-6136 (2003)
14. Hong M, B. A. Zilinskasa, D. C. Knipple, C. Chin. *cis*-3-Hexenal production in tobacco is stimulated by 16-carbon monounsaturated fatty acids. *Phytochemistry*. 65: 159-168 (2004)
15. Peters J., C. Chin. Evidence for Cytochrome c Involvement in Eggplant Cell Death Induced by Palmitoleic Acid. Submitted to *Planta*.

16. Wang M., J.L. Li, Y. Shao, T.C. Huang, M.T. Huang, C. Chin, R.T. Rosen, and C.T. Ho. Antioxidative and Cytotoxic Components of Highbush Blueberry (*Vaccinium Corymbosum* L). Submitted to *Journal of Agricultural and Food Chemistry*.

Chapters in Books

1. Styer, D. J., and C. Chin. Meristem and Shoot Tip Culture for Propagation, Pathogen Elimination, and Germplasm Preservation. *Horticultural Reviews*, ed., J. Janick, Westport, Connecticut, AVI Publishing 5:221-278 (1983).
2. Chin, C. Use of Plant Tissue Culture Techniques in Plant Breeding. *Biochemical Basis of Plant Breeding*, ed., C.Neyra. CRC Press, Inc., Boca Raton, Florida. 25-26 (1985).
3. Hamilton, R.M. Lang, J. Pedersen, H. Chin, C.K. Secondary metabolites from organized *Atropa belladonna* cultures. Eighth Symposium on Biotechnology for Fuels and Chemicals : proceedings of the Eighth Symposium on Biotechnology for Fuels and Chemicals held in Gatlinburg, Tennessee, editor, Charles D. Scott (1986).
4. Pedersen, H. Cho, G.H. Kim, D. Cazzulino, D. Chin, C.K. Mass transfer in plant cell systems. [Book chapter] *Proceedings : 8th International Biotechnology Symposium*, Paris, edited by G. Durand, L. Bobichon, J. Florent.. [Paris, France] : Societe francaise de microbiologie,. 480-488 (1988).
5. Pedersen, H., C. Chin, and K. Venkatasubramanian. Immobilized Plant Cell Reactor Systems. *ACS Symposium Series, Biocatalysis in Agricultural Biotechnology*, eds., J. Whitaker and P. Sonnet, 389:193-201 (1989).
6. Jelenkovic, G., C. Chin, S. Billings, and J. Eberhardt. Transformation Studies in Cultivated Strawberry, *Fragaria x ananassa* Duch. In: *The Strawberry into the 21st Century*, eds. A. Dale and J. J. Luby, Timber Press, Portland, Oregon (1991).
7. Chin, C., and H. Pedersen. Production of Phenolic Compounds by Cultured Plant Cells. *Frontiers in Biotechnology*. In: *Phenolic Compounds in Food and Their Effects on Health I*. eds. C. Ho, C. Lee and M. Hung. PP 51-57 (1992).
8. Pedersen, H. and C. Chin. *Eschscholtzia* spp: In Vitro Culture and Production of Secondary Metabolites. *Biotechnology in Agriculture and Forestry Medicinal and Aromatic Plants*, Vol. V., Springer Verlag, Berlin, New York [1992].
9. Pedersen, H., A. Dutta, and C-K. Chin. Plant Cell Culture in Fermentation Technology: Progress and Perspectives. In: *Fermentation Technology*. eds: A. Trilli, B.K. Hamilton. Cambridge University Press, Cambridge, England [1993].
10. Chou, and C. Chin. Control of the Production of Cis-3-Hexenal, A Lipid Derived Flavor Compound by Plant Cell Culture. In: *Lipids in Food Flavors*. eds. C. Ho and T.G. Hartman. ACS Symposium Series, pp 282-291(1994).
11. Pedersen, H., A. Dutta, and C-K. Chin. Integrated Bioreactor Operation in Secondary Metabolism in Plant Cell and Tissue Cultures. In: *Plant Cell and Tissue Culture: Towards*

Industrial Application. eds: F. DiCosmo and M. Misawa, CRC Press, Boca Raton, FL (1994).

12. Pedersen, H., A. Dutta, and C-K Chin. Dynamics of Secondary Metabolite Synthesis in Suspension Culture Following Elicitation. In: *Advances in Plant Biotechnology: Production of Secondary Metabolites* Eds S. Furusaki and D.D.Y.Ryu, Academic Press, N.Y. (1994).
13. Ho C.T., J. Chen, G. Lu, M.T. Huang, Y. Shao, and C. Chin, Antioxidative and antimutagenic properties of rosemary. In: *Functional Food for Disease Prevention II: Medicinal Plants and Other Foods*. Eds. Toshihiko Osawa, Takayuki Shibamota, and Junji Terao. ACS Symposium series #702, pp. 153-161 (1998)
14. Pedersen, H., Chin, C-K., Dutta, A. Yield improvement in plant cell cultures by in situ extraction. In: *plant cell and tissue culture for the production of food ingredients*. Eds Fu et al. 129-138 Plenum, New York. [1998]
15. Wang, M., Li, J, Shao, Y., Huang, T-C., Huang, M-T, Chin, C-K, Rosen, R. T., Ho, C-T. Anti-oxidative and Cytotoxic Components of Highbush Blueberry (*Vaccinium corymbosum* L.). In: *Phytochemicals and Phytopharmaceuticals*. Eds. Shahidi and Ho, C.T. 271-277. AOCS Press, Champaign, IL. (1999)
16. Ho, C-T., M-T. Huang, Y-R. Lou, W. Ma, Y. Shao, G-J Wei, M. Wang, C-K. Chin. Antioxidant and Antimor Activity of Rosemary Leaves. In: *Phytochemicals and Phytopharmaceuticals*. Eds. Shahidi and Ho, C.T. 296-297. AOCS Press, Champaign, IL. (1999)
17. Huang, M-T, W. Ma, V Bradmaev, Y. Shao, C-K. Chin, C-T Ho. Antitumor Activity of an Extract of the Gum Exudate from the Tree *Boswellia serrata*. In: *Phytochemicals and Phytopharmaceuticals*. Eds. Shahidi, F. and Ho, C.T. 308-313. AOCS Press, Champaign, IL. (1999)
18. Chen, Y, C-K Chin, C-T. Ho. Influence of DNA on Volatile Generation from Maillard Reaction of cysteine and Ribose. In: *Nutraceutical Beverages: Chemistry, Nutrition, and Health Effects*. Eds. Shahidi, F. and D. K. Weerasinghe. 427-442. Oxford University Press. (2003)

Patents

Frenkel, C., C. Chin, D. Frenkel. Method for Stimulating Cell Multiplication, Differentiation, Embryogenesis, and Respiration in Plant Cell Culture by the Addition of a Glycoprotein to the Culture Medium. United States Patent Number 5,409,828 (1995).

Chin, C., C.L. Wang, and J. S. Xing. Method of making pathogen-resistant transgenic plants by transformation with a fatty acid desaturase gene. Patent Number: 6,225,528 B1 [2001].

Varieties released

Garrison, S.A. C-K Chin, J, Kinnelski. Asparagus hybrid: Jersey Supreme (2000)

Garrison, S.A. C-K Chin, J, Kinnelski. Asparagus hybrid: Jersey Deluxe (2000)