

# CURRICULUM VITAE

Wen-Hsing Cheng

Notarization. I have read the following and certify that this curriculum vitae is a current and accurate statement of my professional record.

Signature 

Date: February 10, 2011

## 1. Personal Information

Wen-Hsing Cheng  
Assistant Professor  
Department of Nutrition and Food Science,  
University of Maryland,  
College Park, MD 20742, USA  
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### Education

2001 Ph.D. Molecular Nutrition, Cornell University, Ithaca, New York  
1997 M.S. Animal Nutrition, Cornell University, Ithaca, New York  
1993 B.S. Animal Science, National Taiwan University, Taipei, Taiwan

### Brief Chronology of Employment

2007-present Assistant Professor  
Department of Nutrition and Food Science  
University of Maryland, College Park

2005-2007 Research Fellow  
Laboratory of Molecular Gerontology  
National Institute on Aging, Baltimore, Maryland

2001-2005 Postdoctoral Fellow  
Laboratory of Molecular Gerontology  
National Institute on Aging, Baltimore, Maryland

1996-2001 Graduate Research Assistant  
Cornell University, Ithaca, New York

2. **Research, Scholarly, and Creative Activities (Underline, corresponding/first author; \*, undergraduate, graduate or postdoctoral fellow from the Cheng Lab)**

Summary:

- 51 publications in book chapters, research articles and research comments.
- 25 invited talks
- 35 poster presentations

a. **Chapters in Books.**

1. Rocourt, C\*. Yu, Y\*. and **Cheng, W.-H.** Selenium, epilepsy and aging. Humberto Foyaca-sibat (Eds). In: *Epilepsy*, InTech, Open Access Publisher. ISBN: 978-953-307-226-5. 2011.
2. Wu, M.\*, Porres, J.M. and **Cheng, W.-H.** Selenium, genome maintenance and aging. Ronald R. Watson (Eds). In: *Bioactive Foods in Chronic Disease*, Oxford, London, Elsevier. 2011.
3. **Cheng, W.-H.**, Ahn, B. and Bohr, V.A. Linking human RecQ helicases to DNA damage response and aging. K.K. Khanna, Y. Shiloh (Eds.). In: *The DNA Damage Response: Implications on Cancer Formation and Treatment*, DOI 10.1007/978-90-481-2561-6\_15. Springer B.V. pp. 331-347, 2009.
4. Lei, X. and Cheng, W.-H. New roles of glutathione peroxidase-1 in oxidative stress and diabetes. Dolph L. Hatfield (Eds). In: *Selenium, its molecular biology and role in human health*, New York, NY, Springer-Verlag. pp. 173-182, 2006.
5. Opresko, P.L., Harrigan, J.A., Cheng, W.-H., Brosh, Jr., R.M. and Bohr, V.A. Proposed biological functions for the Werner syndrome protein in DNA metabolism. Michel Lebel (Eds) In: *Molecular Mechanisms of Werner's Syndrome*, Georgetown, TX, Landes Biosciences. pp. 1-10, 2004.

b. **Articles in Refereed Journals.**

i. Research articles.

6. Rocourt, C.\*, Wu, M.\*, Chen, B.P.C. and **Cheng, W.-H.** DNA-PK promotes oxidative stress and is downstream of ATM in the selenium-induced senescence response. (Submitted)
7. Holmstrom, A.\*, Li, X., Wu, R.T.Y.\*, Xiao, Z., Zeng, H., Lei, K.Y. and **Cheng, W.-H.** Dietary selenium status affects T cell immunity and prostate tumor growth in nude mice. (Submitted)
8. Zeng, H., Lin. Y., Cheng, W.-H. and Uthus, E.O. Dietary selenomethionine intake increases exon-specific DNA methylation of p53 gene in rat liver and colon mucosa. (Submitted)
9. Zeng, H., Jackson, M.I., Cheng, W.-H., and Combs, G.F., Jr. Chemical form of selenium affects its uptake, transport and glutathione peroxidase activity in the human intestinal Caco-2 cell model. *Biological Trace Element Research*. In press (DOI:10.1007/s12011-010-8935-3).

10. Zhang, S\*, Luo, Y., Zeng, H., Wang, Q., Tian, F., Song, J., and **Cheng, W.-H.** Encapsulation of selenium in chitosan nanoparticles improves selenium availability and protects cells from selenium-induced DNA damage response. *Journal of Nutritional Biochemistry*. In press (DOI:10.1016/j.jnutbio.2010.09.014).
11. Qi, Y.\*, Schoene, N.W., Lartey, F.\*, and **Cheng, W.-H.** Selenium compounds activate ATM-dependent DNA damage response via the mismatch repair protein hMLH1 in colorectal cancer cells. *Journal of Biological Chemistry*.285: 33010-33017, 2010.
12. Luo, Y., Zhang, B., Cheng, W.-H., and Wang, Q. Preparation, characterization and evaluation of selenite-loaded chitosan/TPP nanoparticles with or without zein coating Carbohydrate Polymers. *Carbohydrate Polymers*, 82: 942-951, 2010.
13. Wu, M.\*, Kang, M.\*, Schoene, N.W., and **Cheng, W.-H.** Selenium compounds activate early barriers of tumorigenesis. *Journal of Biological Chemistry*. 285:12055-12062, 2010.
14. Zhang, J.J., Wu, M.\*, Schoene, N.W., Cheng, W.-H., Wang, T.T.Y., Alshatwi, A.A., Alsaif, M. and Lei, K.Y. The effect of resveratrol and Zinc on intracellular Zinc status in normal human prostate epithelial (NHPrE) cells. *Am. J. Physiology* 297:C632-C644, 2009.
15. **Cheng, W.-H.**, Muftic, D., Muftuoglu, M., Dawut, L., Morris, C., Helleday, T., Shiloh, Y. and Bohr, V.A. WRN is required for ATM activation and the S-phase checkpoint in response to interstrand crosslink-induced DNA double strand breaks. *Mol. Biol. Cell*. 19:3923-3933, 2008.
16. Muftuoglu, M., Kusumoto, R., Speina, E., Beck, G., Cheng, W.-H. and Bohr, V.A. Acetylation regulates WRN catalytic activities and affects base excision DNA repair. *PLOS ONE* , 3:e1918, 2008.
17. Imam, S.Z., Indig, F., Cheng, W.-H., Saxena, S.P., Thorslund, T., Kufe, D. and Bohr, V.A. Cockayne syndrome protein B interacts with and is phosphorylated by c-Abl tyrosine kinase. *Nucleic Acids Res*. 35:4941-4951, 2007.
18. Agrelo, R., Cheng, W.-H., Setien, F., Espada, J., Fraga, M.F., Herranz, M., Paz, M.F., Sanchez-Céspedes, M., Artiga, M.J., Guerrero, D., Castells, A., von Kobbe, C., Bohr, V.A. and Esteller, M. Epigenetic inactivation of the premature aging Werner syndrome gene in human cancer, *Proc. Natl. Acad. Sci*. 103:8822-8827, 2006.
19. **Cheng, W.-H.**, Kusumoto, R., Opresko, P.L., Sui, X., Huang, S., Nicolette, M.L., Paull, T.T., Campisi, J., Seidman, M.M. and Bohr, V.A. Collaboration of Werner syndrome protein and BRCA1 in cellular responses to DNA interstrand cross-links, *Nucleic Acids Research*. 34::2751-2760, 2006.
20. Lee, J.W., Kusumoto, R., Doherty, K.M., Lin, G.-X., Zeng, W., Cheng, W.-H., von Kobbe, C., Brosh, R.M. Jr., Hu, J.-S. and Bohr, V.A. Modulation of Werner syndrome protein function by a single mutation in the conserved RQC domain. *J. Biol. Chem*. 280:39627-39636, 2005.
21. **Cheng, W.-H.**, Sakamoto, S., Fox, J.T., Komatsu, K., Carney, J.P. and Bohr, V.A. Werner syndrome protein associates with  $\gamma$ H2AX in a manner that depends upon Nbs1. *FEBS Letters* 579:1350-1356, 2005.

22. **Cheng, W.-H.**, von Kobbe, C., Opresko, P.L., Arthur, L.M., Seidman, M.M., Carney, J.P., Komatsu, K. and Bohr, V.A. Linkage between Werner syndrome protein and the Mre11 complex via Nbs1. *J. Biol. Chem.*, 279:1169-21176, 2004.
23. von Kobbe, C., Harrigan, J.A., May, A., Dawut, L., Opresko, P.L., Cheng, W.-H. and Bohr, V.A. Central role for the WRN/PARP-1 complex in the poly(ADP-ribosylation) pathway after DNA damage. *Mol. Cell. Biol.* 23:8601-8613, 2003.
24. **Cheng, W.-H.**, von Kobbe, C., Opresko, P.L., Ren, J., Kufe, D. and Bohr, V.A. Werner syndrome protein phosphorylation by Abl tyrosine kinase regulates its activity and distribution. *Mol. Cell. Biol.* 23:6385-6395, 2003.
25. Kyng, K.J., May, A., Brosh, R.M., Jr., Cheng, W.-H., Chen, C., Becker, K.G. and Bohr, V.A. The transcriptional response after oxidative stress is defective in Cockayne syndrome group B cells. *Oncogene*, 22:1135-1149, 2003.
26. **Cheng, W.-H.**, Quimby, F.R. and Lei, X. Impacts of glutathione peroxidase-1 knockout on the protection by injected selenium against the pro-oxidant-induced liver aponecrosis and signaling in selenium-deficient mice. *Free Radical Biology & Medicine.* 34:918-927, 2003.
27. **Cheng, W.-H.**, Zheng, X., Quimby, F.R., Roneker, C.A. and Lei, X. Low levels of glutathione peroxidase 1 activity in selenium-deficient mouse liver affect c-Jun N-terminal kinase activation and p53 phosphorylation on Ser-15 in pro-oxidant-induced aponecrosis. *Biochem. J.* 370:927-934, 2003.
28. Karmakar, P., Piotroweki, J., Brosh, R.M. Jr., Sommers, J.A., Lees Miller, S.P., Cheng, W.-H., Snowden, C.M., Ramsden, D.A. and Bohr, V.A. Werner protein is a target of DNA-dependent protein kinase *in vivo* and *in vitro*, and its catalytic activities are regulated by phosphorylation. *J. Biol. Chem.* 277:18291-18302, 2002.
29. Fu, Y., Cheng, W.-H., Porres, J.M., Ross, D.A. and Lei, X. Knockout of cellular glutathione peroxidase gene renders mice susceptible to diquat-induced oxidative stress. *Free Radical Biology and Medicine*, 27:605-611, 1999.
30. **Cheng, W.-H.**, Valentine, B.A. and Lei, X. High levels of dietary vitamin E do not replace cellular glutathione peroxidase in protecting mice from acute oxidative stress. *J. Nutr.*, 129:1951-1957, 1999.
31. **Cheng, W.-H.**, Fu, Y., Porres, J.M., Ross, D.A. and Lei, X. Selenium-dependent cellular glutathione peroxidase protects mice against a pro-oxidant-induced oxidation of NADPH, NADH, lipids, and protein. *FASEB J.*, 13:1467-1475, 1999.
32. Porres, J.M., Stahl, C.H., Cheng, W.-H., Fu, Y., Roneker, K.R., Pond, W.G. and Lei, X. Dietary intrinsic phytate protects colon from lipid peroxidation in pigs with a moderately high dietary iron intake. *Proceedings of the Society for Experimental Biology and Medicine*, 221:80-86, 1999.
33. Fu, Y., Cheng, W.-H., Ross, D.A. and Lei, X. Cellular glutathione peroxidase protects mice against lethal oxidative stress induced by various doses of diquat. *Proceedings of the Society for Experimental Biology and Medicine*, 222:164-169, 1999.
34. **Cheng, W.-H.**, Combs, Jr. G.F. and Lei, X. Knockout of cellular glutathione peroxidase affects selenium-dependent parameters similarly in mice fed adequate and excessive dietary selenium. *BioFactors*, 7:311-321, 1998.

35. **Cheng, W.-H.**, Ho, Y.-S., Valentine, B.A., Ross, D.A., Combs, Jr., G.F. and Lei, X. Cellular glutathione peroxidase is the mediator of body selenium to protect against paraquat lethality in transgenic mice. *J. Nutr.*, 128:1070-1076, 1998.
  36. Lei, X., Dann, H.M., Ross, D.A., Cheng, W.-H., Combs, Jr., G.F. and Roneker, K.R. Dietary selenium supplementation is required to support full expression to three selenium-dependent glutathione peroxidases in various tissues of weanling pigs. *J. Nutr.*, 128:130-135, 1998.
  37. **Cheng, W.-H.**, Ho, Y.-S., Ross, D.A., Valentine, B.A., Combs, Jr., G.F. and Lei, X. Cellular glutathione peroxidase knockout mice express normal levels of selenium-dependent plasma and phospholipid hydroperoxide glutathione peroxidase in various tissues. *J. Nutr.*, 127:1445-1450, 1997.
  38. **Cheng, W.-H.**, Ho, Y.-S., Ross, D.A., Han, Y., Combs, Jr., G.F. and Lei, X. Overexpression of cellular glutathione peroxidase does not affect expression of plasma glutathione peroxidase or phospholipid hydroperoxide glutathione peroxidase in mice offered diets adequate or deficient in selenium. *J. Nutr.*, 127:475-480, 1997.
- ii. Invited or peer-reviewed reviews.
39. Zhang, S.\*, Rocourt, C.\*, **Cheng, W.-H.** Selenoproteins and the aging brain. *Mechanisms of Ageing and Development*. 131:253-260, 2010.
  40. **Cheng, W.-H.** Impact of inorganic nutrients on genomic stability and maintenance. *Environmental and Molecular Mutagenesis* 50:349-360, 2009.
  41. Muftuoglu, M., Oshima, J., von Kobbe, C., Cheng, W.-H., Leistriz, D.F. and Bohr, V.A. The clinical characteristics of Werner syndrome: molecular and biochemical diagnosis. *Human Genetics* 124:369-377, 2008.
  42. **Cheng, W.-H.**, Muftuoglu, M. and Bohr, V.A. Werner syndrome protein: functions in the response to DNA damage and replication stress in S-phase. *Experimental Gerontology*, 42:871-878, 2007.
  43. Lei, X., Cheng, W.-H. and McClung, J. Metabolic regulation and function of glutathione peroxidase-1, *Annu. Rev. Nutr.* 27:41-61, 2007.
  44. Lei, X. and Cheng, W.-H. New Roles for an Old Selenoenzyme: Evidence from Glutathione Peroxidase-1 Null and Overexpressing Mice. *J. Nutr.* 135:2295-2298, 2005.
  45. Opresko, P.L. Cheng, W.-H. and Bohr, V.A. At the junction of RecQ helicase biochemistry and human disease. *J. Biol. Chem.*, 279:18099-18102, 2004.
  46. Opresko, P.L., Cheng, W.-H., von Kobbe, C., Harrigan, J.A. and Bohr, V.A. Werner syndrome and the function of the Werner protein: What they can teach about the molecular aging process. *Carcinogenesis*. 24:791-802, 2003.
  47. **Cheng, W.-H.**, Opresko, P.L., von Kobbe, C., Harrigan, J.A. and Bohr, V.A. The human Werner syndrome as a model for aging. *Topics in Current Genetics*. 3:239-268, 2003.
  48. Lei, X. and Cheng, W.-H. Analysis of phospholipid hydroperoxide glutathione peroxidase mRNA. *Methods in Molecular Biology*. 196:183-193, 2002.

- c. Book Reviews, Other Articles, and Notes.
49. Wu, R.T.Y.\* and **Cheng, W.-H.** New Insight into telomere maintenance. *Aging*. 2, 255-256, 2010.
  50. **Cheng, W.-H.**<sup>#</sup>, Bohr, V.A. and de Cabo, R<sup>#</sup>. Preface: special issue on nutrition and aging. *Mechanisms of Ageing and Development*. 131: 223-224, 2010. <sup>#</sup>, co-corresponding author.
  51. **Cheng, W.-H.** and Bohr, V.A.. The Diverse Dealings of the Werner Helicase/Nuclease. *Science SAGE KE* (6 August 2003), <http://sageke.sciencemag.org/cgi/content/full/sageke;2003/31/pe22>
- d. Talks, Abstracts, and Other Professional Papers Presented.
- i. Invited talks.

### Regional:

1. 2010. Selenium compounds activate earlier barriers of tumorigenesis. UMD-NCI Workshop. Bethesda, Maryland.
2. 2010. Distinct roles of selenium in the protection against cancer and aging. University of Maryland, College Park, Maryland.
3. 2009. Premature aging syndrome, cancer, and antioxidant nutrients. Department of Chemistry and Biochemistry, University of Maryland, College Park, Maryland.

### National:

4. 2010. Selenium, genome maintenance, and tumorigenesis. National Institute on Aging, NIH, Baltimore, Maryland.
5. 2006. Antioxidant nutrients linked to DNA repair and mammalian aging. University of California, Davis, California.
6. 2006. Integral role for WRN in early DNA double strand break response. *DNA repair Interest group videoconference*. <http://www.nih.gov:80/sigs/dna-rep/>.
7. 2003. Cancer and aging: how antioxidant nutrients and DNA repair challenge the demons. USDA Grand Forks Human Nutrition Research Center Grand Forks, North Dakota.
8. 2001. Innovative tools to assess body antioxidant status and selenium/vitamin E nutrition. *Cornell Nutrition Conference*, 2001, Rochester, New York.

### International:

9. 2010. Selenium compounds activate earlier barriers of tumorigenesis in non-cancerous cells. *9<sup>th</sup> International Symposium on Selenium in Biology and Medicine*. Kyoto, Japan.
10. 2010. Linking Selenium to Genome Maintenance and Longevity. *36<sup>th</sup> Annual Conference of Nutrition Society of Taiwan: Challenge in Nutrition Research and Services in an Aged Society*. Taipei, Taiwan.
11. 2010. Linking selenium to genome maintenance and longevity. Institute of Cellular and Organismic Biology, Academia Sinica, Taipei, Taiwan.
12. 2010. Selenium, genome maintenance, and longevity. Department of Genome Repair Dynamics, Radiation Biology Center, Kyoto University, Kyoto, Japan.
13. 2010. Linking selenium to genome maintenance and longevity. Department of Animal Science

- and Technologies, National Taiwan University, Taipei Taiwan.
14. 2010. Linking selenium to genome maintenance and longevity. Department of Human Development and Family Studies, National Taiwan Normal University, Taipei Taiwan.
  15. 2010. Recent advances in anti-aging study and the clinical application. Department of Geriatrics and Gerontology. National Taiwan University Hospital. Taipei, Taiwan.
  16. 2009. Selenium chemoprevention, induction of DNA damage Response, and nanoparticles. *1<sup>st</sup> World Congress of the International Academy of nanomedicine*. Sanya, China.
  17. 2009. Linking cancer prone premature aging syndrome to antioxidant nutrients. *The 1<sup>st</sup> international conference in biotechnology*, Riyadh, Saudi Arabia.
  18. 2008. Linking selenium to DNA repair and aging. Chang Jung Christian University, Tainan, Taiwan.
  19. 2006. Replication stress-induced S-phase checkpoint is mediated by WRN-dependent ATM activation. *International Workshop on Ataxia-Telangiectasia and ATM*, 2006, Banff, Alberta, Canada.
  20. 2004. Altered DNA break response in the human Werner premature aging syndrome. *The 4<sup>th</sup> Geneva Aging Workshop: Aging and Cancer at the Crossroads*, Geneva, Switzerland.
  21. 2004. Functional interaction between Werner syndrome protein and Nbs1 in the DNA damage response. *Workshop on "Molecular Cross talk among Chromosome Fragility Syndromes"* at Instituto Juan March, Madrid, Spain.
  22. 2004. Altered DNA break response in the Werner premature aging syndrome. Department of Biological Sciences, Brock University, St. Catherine, Ontario, Canada.

*International conferences held in the US:*

23. 2006. A S-phase checkpoint mediated by WRN-dependent ATM activation. *RecQ helicases and other helicases in telomere maintenance and related pathways*, Lansdowne, Virginia, USA.
24. 2005. WRN functions in the cellular response to DNA cross-links. *Genome Instability and Repair*, Keystone Symposia, Taos, New Mexico.
25. 2003. The c-Abl/WRN/Nbs1 pathway in the DNA damage response. *International Workshop on Werner Syndrome*, 2003, Lansdowne, Virginia, USA.

ii. Refereed conference posters.

- 2010 *A-T workshop*
- 2008 *A-T workshop*
- 2007 *Gordon conference (Biology of Aging)*
- 2005 *3R (Replication, Recombination and Repair) conference*
- 2003 *FASEB Summer Research Conference (helicase)*

iii. Unrefereed conference posters.

**30 poster presentations**

- 2011 *EB 2011 (7), AACR 2011 (1).*
- 2010 *EB 2010 (4).*
- 2009 *EB 2009 (2).*
- 2008 *EB 2008 (1).*
- 1997-2006 *EB (8), GRC conference, regional (5), AACR (2).*

- e. Contracts and Grants (\*, internal).
- 2010, \$3,000\*, USDA-UMCP, Pilot study-- alternative use of Tobacco: leaf protein extracts on tumorigenesis. PI.
  - 2009, \$3,950, American Gene Tech. “Visualization of multi-gene therapeutic viral vectors for cancer treatment”. PI.
  - 2009-2010, \$11,270\*, General Research Board, University of Maryland Antioxidant nutrients linked to DNA damage and mammalian aging”. PI.
- f. Fellowships, Prizes, and Awards.
- 2010 **Young Investigator Award**, the 9<sup>th</sup> International Symposium on Selenium in Biology and Medicine, Kyoto, Japan.
  - 2010 **Gamma Sigma Delta Award-Excellence in Research 2010**. University of Maryland-National Area Chapter.
  - 2009 **GRB summer award**, Graduate School, University of Maryland, College Park.
  - 2006 **Young Investigator Award**, International Workshop on Ataxia-Telangiectasia and ATM, Banff, Canada.
  - 2005 **Young Investigator Award**, Keystone Symposia: the Genome Instability and Repair, Taos, New Mexico.
  - 2004 **Nathan W. Shock Award**, National Institute on Aging, NIH.
  - 2003 **FARE** (The Fellows Awards for Research Excellence) **winner**, NIH.
  - 2000 **Wu/Liu Award** (in recognition of excellence in research), Cornell University.
- g. Editorships, Editorial Boards, and Reviewing Activities for Journals.
- i. Editorships:
- 2009 Guest Editor. *Mechanisms of Ageing and Development*, Special Issue: “Nutrition and Aging”.
- ii. Editorial Board:
- 2010-present *World Journal of Biological Chemistry*.
- iii. Reviewing articles for:
- *Journal of Nutrition* (2)
  - *British Journal of Nutrition* (1)
  - *Journal of Nutritional Biochemistry* (1)
  - *Cancer Research* (1)
  - *Oncogene* (1)
  - *Nucleic Acid Research* (1)
  - *Mechanisms of Ageing and Development* (14)
  - *Clinical and Experimental Pharmacology and Physiology* (1)
  - *Plant Foods for Human Nutrition* (1)
  - *Journal of Medicinal Food* (1)
  - *Journal of Inorganic Biochemistry* (1)
  - *Journal of Animal Science* (1)

3. Teaching, Mentoring, and Advising

a. Courses taught in the last five years.

*Lecture courses:*

- NFSC 610, Molecular Gerontology, 3 credits (Fall 08, 10 students; Fall 09, 5 students)
- NFSC 410/678C, Nutritional Genomics, 3 credits (Spring 09, 10 students; Fall 10, 5 students)
- NFSC 688/888, Seminar in Nutrition and Food Science, 1 credit (Fall 09, 10 students; Fall 10, 9 students, Spring 11, 29 students)
- NFSC 611, Molecular Nutrition, 2 credits (Spring 10, 4 students; Spring 11, 4 students)
- NFSC100, Element of Nutrition, 3 credit (Fall 10, 467 students, teach 9/27 lectures; Winter 11, 16 students)
- Contributed lectures—NFSC678 (Nutraceuticals), 04.11.2007, 3h; NFSC690 (Nutrition and Aging), 10.18.2007, 3 h; NFSC112 (Food: science and technology), 10.22.2007, 1 h; NFSC660 (Research methods), 3.14.2008, 2 h.

*Research courses:*

<i>Course</i>	<i>Semester</i>	<i>Student enrollment</i>	<i>Total credit</i>
NFSC498A	Fall 07	2	4
	Spring 08	2	5
	Fall 08	1	3
	Spring 09	1	3
	Fall 09	2	6
	Spring 10	1	3
NFSC698A/699	Fall 08	1	3
	Fall 10	1	1
NFSC799	Fall 08	1	3
	Spring 09	3	11
	Summer 09	1	1
	Fall 09	2	4
	Spring 10	1	1
	Fall 10	1	5
NFSC898	Spring 08	1	5
	Fall 08	1	5
	Spring 09	1	8
	Fall 09	1	7
	Spring 10	2	8
	Fall 10	2	6
	Spring 11	2	13
NFSC899	Spring 10	1	6
	Fall 10	1	6
	Spring 11	1	6

- b. Course or Curriculum Development.
  - NFSC 610, Molecular Gerontology
  - NFSC 410/678C, Nutritional Genomics
  - NFSC 611, Molecular Nutrition
- c. Advising: Other Than Research Direction.
  - i. Undergraduate.
    - Since Spring 09, 15-20 students per semester.
- d. Advising: Research Direction.
  - i. Undergraduate (7 students).
    - Elliot Mattson (Summer 10)
    - Christina Bohr (Fall 07 – Spring 10). *Howard Hughes Medical Institute Undergraduate Fellowship*.
    - Jennifer Brown (Fall 09)
    - Dora Lin (Summer 09)
    - Mandy Kang (Summer 07 – Spring 08). *McNair Scholar*.
    - Ana Valencia (Spring 09)
    - Ankita Saxina (Fall 07)
  - ii. Master's, \*graduated (4).
    - \*Alexandra Holmstrom, Fall 10
    - \*Caroline Rocourt, Fall 09
    - \*Shu Zhang, Fall 09
    - \*Junhao Ma, Summer 09
    - Tiffany Tzeng, Fall 10-present
  - iii. Doctoral.
    - Min Wu, Fall 07-present
    - Yongmei Qi (co-advising), Fall 08-present
    - Ryan T. Y. Wu, Fall 09-present
    - Caroline Rocourt, Spring 10-present
    - Ying Yu (co-advising), Fall 10-present
  - iv. Postdoctoral
    - Fredrick Lartey, 01.2008-10.2008.
- 4. Service
  - a. Professional.
    - i. Offices and committee memberships held in professional organizations.
      - Co-chair, Selenium mini-symposium, Experimental Biology 2010, Anaheim, California.

- ii. Reviewing activities for agencies.
  - USDA intramural research project (2010)

b. Campus.

i. Departmental.

- PhD Degree Committee (\*, graduated):
  1. \*Edra London. Fall 09.
  2. \*Junjun Zhang. Fall 08.
  3. Steven Trasino. 2008-present
- Master's Degree Committee (\*, graduated):
  1. \*Reem Al-Ahamshi. Spring 09.
  2. \*Omayra Rodriguez. Spring 10.
- TA committee (2009-present)
- Nutrition Graduate Program Admission Committee (2007-present)
- NFSC Poster Day Committee, chair (2009, 2011)
- Ad hoc NFSC Future Plan Committee (2008)
- Ad hoc AGNR Holiday Party Committee, chair (2008)
- Scholarship Committee (2007-2010)
- Recruitment Committee:
  1. Coordinator ( 2007)
  2. NFSC Chair (2011)
  3. Nutrition faculty (2011)

ii. College.

- NFSC PCC representative (Spring 2008-present)
- Shorb committee (2007-present)

iii. University.

- A delegate of the 6-faculty team led by Dean Cheng-I Wei to Taiwan, June 10-June 14, 2009, to execute a MOU between UMCP and TECRO (Taipei Economic and Cultural Office in the US).
- Biology Day poster judge, 2010.