

## CURRICULUM VITAE

### David K. Y. Lei, Ph.D.

Department of Nutrition and Food Science  
University of Maryland  
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#### A. Education

<u>University Attended</u>	<u>Degrees</u>	<u>Dates</u>
University of London, London, England	B.Sc.	9/65 - 6/68
University of Guelph, Guelph, Ontario, Canada	M.S.	9/68 - 8/70
Michigan State University, E. Lansing, Michigan	Ph.D.	9/70 - 12/73

#### B. Major Field

Current research is focused on the area of nutrient control of gene expression. Major efforts are being devoted to the elucidation of the mechanisms responsible for the altered gene expression modulated by cellular zinc status. Studies are being conducted to examine the influence of zinc status on the expression of tumor suppressor p53 gene and its target genes (p21, Gadd45 and Mdm2), as well as on cell cycle regulation and apoptosis. Studies are being performed in normal human bronchial epithelial, prostate epithelial and aortic endothelial cells; in human hepatoblastoma cell lines; and in other human cell lines. In 2006, a program was initiated to examine the influence of food and medicinal plant materials with bioactivities on cell cycle progression and on expression of tumor suppressor genes in normal human prostate epithelial cells and prostate tumor cell lines. In 2008, Lei as director of equipment acquisition, contributed to the establishment of a new Molecular Cancer Biology Research Lab (MCBRL) at King Saud University (KSU).

#### C. Professional Appointments

	<u>Institutions</u>	<u>Dates</u>
Research Associate	Wayne State University School of Medicine (Lab. of A.S. Prasad, M.D., Ph.D.)	12/73 - 4/75
Assistant Professor	Mississippi State University	4/75 - 6/78
Associate Professor	Mississippi State University	6/78 - 3/80
Associate Professor	University of Arizona	3/80 - 6/88

Professor	University of Arizona	6/88 – 3/00
Visiting Professor	TNO, Rijiswijk, Netherlands (in Prof. Dick Knook’s Lab.)	2/88 - 7/88 To acquire technology in cell culture and cell separation by elutriation.
Visiting Professor	Baylor College of Medicine (in Prof. Lawrence Chan’s Lab.)	2/91 - 8/91 To acquire technology in molecular biology.
Visiting Professor	Baylor College of Medicine (in Prof. Lawrence Chan’s Lab.)	3/99 - 8/99 To acquire technology for in vivo gene transfer.
Professor and Chair	University of Maryland	3/00 - 2/05
Professor	University of Maryland	3/00 - present
External Examiner	Chinese University of Hong Kong Food and Nutritional Sciences	2004 to 2012
Member, Board of Consultants	Center of Excellence Biotechnology Research King Saud University, Saudi Arabia	3/08 – 3/10

### **Professional Affiliations:**

American Institute of Nutrition (from 1978).  
 American Heart Association, Council on Arteriosclerosis (from 1987).  
 American Dietetic Association (from 1978).  
 American Society for Cell Biology (from 2001).  
 American Physiological Society (from 2008).  
 Society of Experimental Biology and Medicine (from 2008).

## **D. Awards and Honors**

Undergraduate Scholarship, University of London, London, England, 1967- 1968.  
 Graduate Research Assistantship, Dept. of Nutrition, Univ. of Guelph, Guelph, Ontario, Canada, 1968- 1970.  
 Graduate Research Assistantship, Dept. of Food Science & Human Nutrition, Michigan State Univ., 1970- 1973.  
 Dissertation Scholarship from Michigan State University, 1973.  
 Outstanding Alumni Award, Dept. of Food Science and Human Nutrition, Michigan State University, 1989.  
 Pew Faculty Scholar in Nutrition Fellowship. Pew National Nutrition Program, 1990- 1991.  
 Outstanding Faculty Award, Asian American Faculty and Staff Association, University of Arizona, 1999.

**Research Awards Funded: Lei as Principal Investigator (PI) or Mentor has acquired during his career a total of ~ \$11 million in funding, with ~\$2.1 million in federal competitive grant (Fed. Comp. Grant) awards. [PI salary not requested from grants].**

**Past Support****Funded Amount/  
Duration of Support**

HATCH, USDA	Effect of Dietary Fiber on Mineral and Cholesterol Metabolism PI: Lei.	~\$25,000/year for 6/75 - 6/80
Southern Education Bd.	Travel Grant. PI: Lei.	\$1,000 for 1976; \$1,000 for 1977
NIH Fed. Competitive Grant	Oral Contraceptives: Effects on Vitamin C Metabolism. PI: Lei.	~\$64,000 direct cost 12/77- 11/81
NIH	Oral Contraceptives & Nutrients in Women. PI: Lei.	\$4,500 for 1977
USDA, HATCH	Oral Contraceptives: Effects on Vitamin C Metabolism in Guinea Pigs. PI: Lei.	~\$10,000/year, 6/78-6/80
USDA, HATCH	Diet and Oral Contraceptives: Effect on Maternal Zinc and Folate Status. PI: Lei.	~\$12,000/year, 6/80-6/83
NIH, BRSG	Atomic Absorption Spectrophotometer Upgrade. PI: Lei.	\$7,000 for 6/80-5/81
NIH, BRSG	Influence of Dietary Pectin on Mineral Metabolism PI: Lei.	\$12,500 for 3/80 - 2/81
Arizona Heart Assoc.	Lipid Metabolism in Copper Deficiency. PI: Lei.	\$12,000 for 7/81 - 6/82
NIH, BRSG	Liquid Chromatography System. PI: Lei.	\$3,000 for 1983
Alcorn State Univ.	Diet and Mineral Metabolism. PI: Lei.	\$4,000 for 8/82 - 8/83
U of A Gerontology Small Grants Program	Aging and Lipoprotein Metabolism. PI: Lei.	\$4,800 for 6/82 - 6/83
USDA, HATCH	Effects of Aging and Nutrition on Lipoprotein Metabolism.	~\$14,000/year, 7/83-6/86
USDA Fed. Competitive Grant	Dietary Copper and Lipoprotein Metabolism. PI: Lei.	\$60,000 for 7/84 - 6/86
USDA, HATCH	Dietary Copper and Lipoprotein Receptors. PI: Lei.	~\$25,000/year, 7/86-6/89
USDA Fed. Competitive Grant	Dietary Copper and Lipoprotein Receptor Mediated Endocytosis and Retroendocytosis. PI: Lei.	\$95,000 for 7/86 - 6/89
Nutricia, Netherlands	Dietary Copper and Lipoprotein Receptors in Kupffer Cells. Joint project with D.L. Knook, TNO Institute for Experimental Gerontology, Rijiswijk, Netherlands. PI: Lei.	\$20,000 for 1988
USDA Fed. Competitive Grant	Dietary Copper: Lipoprotein Synthesis. Intracellular Processing and Secretion. PI: Lei.	\$111,000 for 7/89 - 6/92
USDA, HATCH	Dietary Copper and Apolipoprotein Biogenesis in Hepatic and Intestinal Cells. PI: Lei.	~\$30,000 / year for 7/89 - 6/92
Pew National Nutrition Program	Faculty Scholar in Nutrition Fellowship supported a 6-month sabbatical leave in Dr. Lawrence Chan's laboratory at Baylor College of Medicine. PI: Lei.	\$31,685 for 7/90 - 7/91

American Heart Assoc., Arizona Affiliate	Regulation of Apolipoprotein A-I Gene Expression by Dietary Copper. PI: Lei.	\$25,000 for 7/92 - 12/93
American Heart Assoc., Arizona Affiliate	Graduate Student Stipend Award for Mr. Scott Reaves. Lei as mentor.	\$3,000 7/92 - 6/93, \$5,000 7/93 - 6/94, \$5,000, 7/94 - 6/95
American Heart Assoc., Arizona Affiliate	The Effect of Fruit and Vegetable Consumption on Risk Factors for CVD: Lipid Profile and the Oxidation of LDLs. PI: Douglas L. Taren.	\$10,000 for Lei' s lab, 7/94 - 6/95 \$10,000 for Lei' s lab, 7/95 - 6/96
USDA, HATCH	Dietary Fat Saturation and Apolipoprotein Synthesis. PI: Lei.	\$45,000/year for 7/92 - 6/96
USDA, NRI Fed. Competitive Grant	Regulation of Apolipoprotein B Gene Expression by Dietary Copper. PI: Lei.	\$150,000 for 7/92 - 6/96
Arizona Disease Control	Apolipoprotein A-I Promoter: Functional Changes in a Common Point Mutation. P.I. Yi Ran Wang (Mentor, Lei).	\$59,438 for 7/95 - 6/97
USDA, NRI Fed. Competitive Grant	Zinc Status and Apolipoprotein B mRNA Editing Protein. P.I. Scott K. Reaves (Mentor, Lei).	\$80,000 for 7/95 - 6/97
USDA, HATCH	Copper Status and Apolipoprotein A-I Gene Expression. PI: Lei.	~\$47,000/year, 7/96-6/99
USDA, NRI Fed. Competitive Grant	Regulation of Apolipoprotein A-I Gene Expression by Zinc Status. PI: Lei.	\$246,000 for 8/96 – 8/2000
USDA, NRI Fed. Competitive Grant	Regulation of Apolipoprotein B mRNA Editing Protein Gene Expression by Zinc Status. P.I. John Y.J. Wu (Mentor, Lei).	\$90,000 for 7/97 - 6/99
Arizona Disease Control Commission	Modulation of Transcription by Apolipoprotein A-I Gene Promoter, a Frequent Point Mutation in the Human. P.I. Yi Ran Wang (Mentor , Lei).	\$150,000 for 7/97 - 6/2000
USDA, ARS, REE, NAL	Database Development and Information Dissemination Support in Human Nutrition, Food Safety and Food Service Education and Research. PI: Lei.	\$3,593,102 from 1999 to 2003
USDA, NRI Fed. Competitive Grant	Modulation of Apolipoprotein A-I Gene Expression by Zinc Status. PI: Lei.	\$250,000 for 3/2000 to 6/2004
USDA, ARS, REE, NAL	Development of Food and Nutrition Web Sites	\$1,017,451; Lei as PI from 2003 till end of 2004
USDA, CSREES	Development of Food Safety Information Products	\$299,385; Lei as PI from 2003 till end of 2004
USDA, IREEC, NIFSI Fed. Competitive Grant	Food Safety Risk Analysis Distance Training Program. PI: Lei	\$320,000 for 10/2001 to 9/2005
USDA, NRI Fed. Competitive Grant	Modulation of p53 Human Tumor Suppressor Gene Expression by Zinc Status. PI: Lei.	\$256,000 for 8/2002- 7/2007

USDA, IREEC, NIFSI Fed. Competitive Grant	Risk Analysis-based Food Defense Certification Program for Professional and Academic Audiences. PI: Lei.	\$540,000 for 8/2006 – 8/2011
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**Current Funding:**

King Saud University (KSU)	Molecular Cancer Biology Research lab, KSU. Lei as PI or Director of equipment acquisition.	~\$1.3 million, 5/2008 to present
UMCP, VPR, Designated Research Initiative Fund	Electronic Intervention (EI) to Improve Weight and Health Behaviors in College Students	\$50,000, 2011 to 2013

**Pending Applications:**

King Saud University (KSU)	Joint Research, KSU with Chinese Academia of Science, Nano Science Center, Beijing. PI: Lei.	~\$300K; 2011-2012
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**E. Service**

**1. Intramural:**

- a. Department of Nutritional Sciences, University of Arizona**
  - Graduate Committee, Member (1982 - 1984, 1988 - 2000), Chair (1988-1990, 1997-2000)
  - Promotion and Tenure Committee, Member (1991-2000), Chair (1997-2000)
  - Animal Facilities Committee, Member (1981 - 2000)
  - Seminar Committee, Member (1982 - 1984)
  - Dietetics Study Committee, Member (1982 - 1990)
  - Curriculum Committee, Member (1982 - 1987)
- b. College of Agriculture, University of Arizona**
  - Distinguished Visitors Committee, Member (1985 - 1988)
  - Laboratory Animal Care Committee, Member (1987 - 1989)
  - Faculty Advancement Team, Member (1994 - 1996)
  - Promotion and Tenure Committee, Member (1989-1991; 1993-1995), Chair (1995)
- c. University of Arizona**
  - Executive Nutritional Sciences Committee, Member (1981 - 1984; 1991 - 1994; 1995 - 2000)
  - Nutritional Sciences Seminar Committee, Member (1983 - 1985), Chair (1984, 1988)
  - Graduate Group in Nutritional Sciences, Member (1980 - 2000)
  - Education and Professional Training Committee, Member (1985 - 1989)
  - Search Committee for Interdisciplinary Programs Coordinator, Member (1989)
- d. Department of Nutrition and Food Science, University of Maryland**
  - Graduate Nutrition Interdepartmental Program, Member, UMD (2000 to present)
  - Graduate Food Science Interdepartmental Program, Member, UMD (2000 to present)
  - NFSC dietetics curriculum committee, Member (2003 to present)
  - NFSC dietetics internship committee, Member (2003 to present)
  - NFSC Human Nutrition Search Committee, member (2008- 2009)
  - NFSC Dr. Robert Jackson APT committee, Chair (2008- 2009)
  - NFSC Dr. Lucy Yu APT committee, Chair (2008- 2009)
- e. Veterinary Medicine Program, University of Maryland**
  - VETMED APT committee, Chair (2007- 2008)
- f. College of Agriculture and Natural Resources, University of Maryland**
  - American Distant Education Consortium Awards Committee, Member (2005 to 2007)
- g. University of Maryland at College Park**
  - JIFSAN work group, Member (2000-2005)
  - BACH (2007- present)
- h. Graduate Student Thesis and Dissertation Committees**

Since 1975, I have served as:

  1. Director of Research for 26 M.S. Theses

2. Director of Research for 17 Ph.D. Dissertations  
Presently, I am acting as Director of Research for 3 Ph.D. students.

**i. Courses taught at the University of Arizona**

1. Human Nutrition, NSC 408, 3 credits, Fall Semester, ~50 students (1980- 1999).
2. Nutrition in Life Cycle, NSC 201, 3 credits, Spring Semester, ~70 students (1980 - 1987).
3. Individual Studies, NSC 910, 4 credits, Spring and Fall Semesters, ~4 students (1980 - 1999).
4. Advanced Nutritional Science, NSC 520, 3 credits, Fall Semester, ~10 students (1989 - 1999).
5. Nutrient Control of Gene Expression, NSC 608x, 2 credits, Spring Semester, (1997 - 1999).
6. Methods in Nutritional Research, NUSC 605, 3 credits, Spring Semester (1997- 1999).

**j. Courses taught at the University of Maryland**

1. Advanced Human Nutrition, NFSC440, 4 credits, Fall Semester, ~30 students (2000 - present).
2. Advanced Human Nutrition, NFSC 678R, 4 credits, Fall Semester, ~6 students (2000 - present).
3. Research Methods, NFSC 660, 3 credits, Spring Semester, ~ 6 students (2005 – present).
4. Nutrition Seminar, NFSC 888/688, 1 credit, Fall Semester, ~6 students (2007 – present).

**2. Extramural:**

**a. National Institutes of Health**

- Consultant to Contraceptive Evaluation Branch, NICHD, NIH (1977).
- Member: Review Committee for Minority Institutional Training Grants and Faculty Development Awards, National Heart Blood and Lung Institute, Bethesda, MD (1985).
- Member: Site Visit Team, NIBHL for Southern University, Shreveport, LA (1985).
- Special Reviewer: Nutrition Study Section, NIH, Bethesda, MD (1987).

**b. United States Department of Agriculture**

- Program Manager, Improving Human Nutrition for Optimal Health Grants Program (1997).
- Member: Research Grant Review Panel, Human Nutrition Competitive Research Grants Program, (1985); National Research Initiative Competitive Grants Program (1993, 1994); Strengthening Grants Program (1996).
- Directed Minority Research Apprenticeships at University of Arizona (1985 to 1990).
- Member, NIFA Competitive Grants program, Function & Efficacy of Nutrients Review Panel (2011).

**c. Service to Professional Organizations**

- Co-chaired a session on trace minerals at the annual FASEB meeting (1982).
- Member: Graduate Student Research Evaluation Committee, at the annual FASEB meeting (1980).
- Research resource person, American Dietetics Association (1985).
- Visiting Professor: Presented a short course on lipoprotein isolation and purification, Univ. of Wyoming (1986).
- Chairman: Biochem Session I, Second National Meeting of Chemists, King Saud University, Saudi Arabia (1987).
- Co-chairman (1994), Chairman (1995): Minisymposium on Copper at the annual Experimental Biology Meeting.
- Chairman: Mead Johnson Award Nominating Committee, American Institute of Nutrition (1993, 1995).
- External Examiner, Food & Nutritional Sciences, Chinese University of Hong Kong (2004 to 2012).
- Member, Board of Consultants, King Saud University, Kingdom of Saudi Arabia (2008 to 2010).
- External Reviewer, Nutrition and Food Science, Wayne State University (3/2008).

**d. Editorial Activities and Grant Proposal Reviews**

- Editor: Role of Copper in Lipid Metabolism, CRC Press, Boca Raton, Florida (1990).
- Member of Board of Editors, Proc. Soc. Experimental Biology & Medicine, 1994-2001.
- Member of Board of Editors, Journal of Nutrition, 1998-2004.
- Ad Hoc Review of Manuscripts for:  
American Journal of Hematology, American Journal of Clinical Nutrition, Life Sciences, Journal of Nutrition, Metabolism, Nutrition Research, Obstetrics and Gynecology, Proceedings of Society of Biology and Medicine, and Science.
- Review of Textbook Manuscript for Macmillan (1984).
- Ad Hoc Research Grant Review for:  
National Institutes of Health (1985, 1986).

- USDA Human Nutrition Competitive Research Grants Program (1987, 1991, 1992, 1995, 2000 to present).
- Research Grant Review Panel for:
  - American Heart Association, Arizona Affiliate (1989-94).
  - USDA Human Nutrition Competitive Research Grants Program (1985, 1994).

**e. Invited Presentations**

- First Bi-Annual Nutrition Update, University of Arizona; presented a review on "Oral Contraceptives and Nutrition" (1981).
- Nutrition Section, Department of Home Economics, University of Wyoming; presented a lecture on "Dietary Copper and Lipoprotein Metabolism" (1986).
- The Second National Meeting of Chemists, King Saud University, Saudi Arabia; presented a review on "Dietary Copper and Lipoprotein Metabolism" (1987).
- Human Nutrition Program, Odense University, Denmark (1987).
- Nuclear Reactor Institute, Delft, Netherlands (1987).
- The Experimental Gerontology Institute, TNO, Rijiswijk, Netherlands (1987).
- Food Science Dept., King Saud University, Saudi Arabia, presented a review on lipoprotein metabolism (1987).
- The USDA Human Nutrition Research Center, Beltsville, MD; presented a seminar on "Dietary Copper and Lipoprotein Receptors" (1987).
- Department of Clinical Nutrition, Rush-Presbyterian-St. Luke's Medical Center, Chicago, IL; presented a seminar on "Dietary Copper and Lipoprotein Receptors" (1987).
- The Experimental Gerontology Institute, TNO, Rijiswijk, Netherlands (1988).
- Department of Human Nutrition and Food Systems, University of Maryland, College Park, MD; presented a seminar on "Dietary Copper: Cholesterol and Lipoprotein Metabolism" (1990).
- Department of Nutrition, University of Nevada Reno, Nevada; presented a seminar on "Dietary Copper: Cholesterol and Lipoprotein Metabolism" (1990).
- Department of Nutrition and Medical Dietetics, University of Illinois at Chicago; presented a seminar on "Dietary Copper: Cholesterol and Lipoprotein Metabolism" (1990).
- For the minisymposium, "Consequences of Dietary Copper Restriction on Cardiovascular and Central Nervous System," Experimental Biology 93 Meeting, New Orleans, Louisiana; Provided a presentation on "Lipid and Lipoprotein Metabolism" (3/1993).
- Department of Human Ecology, University of Texas at Austin. Provided a seminar on "Copper Deficiency Increases Apolipoprotein A-I Synthesis and Gene Expression in Rats and Hep G2 Cells" (1/1994).
- Department of Nutrition and Food Science, University of Maryland, at College Park. Provided a presentation on "Copper Deficiency Enhances Apolipoprotein A-I Gene Expression in Rats and Hep G2 Cells" (4/1994).
- University of California, Santa Cruz. Provided a presentation on "Apo B mRNA Editing in Copper-Deficient Rats" in the FASEB 94 Summer Conference "Nutrient Control of Gene Expression" (7/1994).
- Department of Nutrition and Food Management, Ohio State University, Columbus. Presented a seminar on "Copper Deficiency Enhances Apolipoprotein A-I Gene Expression in Rats and Hep G2 Cells" (5/1995).
- Department of Biology, Science and Technology, University of Hong Kong. Provided a presentation on "Copper Deficiency Enhances Apolipoprotein A-I Gene Expression in Rats and Hep G2 Cells" (12/1995).
- Department of Nutrition and Food Science, University of Maryland at College Park. Provided a seminar on "Hepatic Gene Expression in Copper Deficiency" (4/1996).
- Special Center of Research in Gene Therapy. Department of Cell Biology. Baylor college of Medicine. Presented a seminar on "Regulation of Apolipoprotein A-I Gene Expression by Zinc Status" (3/1999).
- Department of Nutrition and Foods, University of Georgia at Athens. Provided a seminar on "Regulation of Apolipoprotein A-I Gene Expression by Zinc Status" (5/1999).
- Department of Animal Science, Texas A & M University. Presented a seminar on "Regulation of Apolipoprotein A-I Gene Expression by Zinc Status" (5/1999).
- Department of Nutrition and Food Science, University of Maryland at College Park. Presented a seminar on "Regulation of Apolipoprotein A-I Gene Expression by Zinc Status" (7/1999).
- Chinese Academy of Sciences, International Symposium on Nutritional Sciences, Shanghai, PRC. Provided a presentation on "Modulation of human p53 tumor suppressor gene expression by intracellular zinc status" (4/2002).
- Department of Biology, Chinese University of Hong Kong. Presented a seminar on "Modulation of human p53

- tumor suppressor gene expression by intracellular zinc status” (3/2004).
- Department of Biology, Chinese University of Hong Kong. Presented a seminar on “Modulation of p21 gene expression by intracellular zinc status” (6/2005).
  - Department of Biology, Chinese University of Hong Kong. Presented a seminar on "Career Development for a FNS graduate: A Western Perspective" (11/2006).
  - College of Agriculture, King Saud University, Riyadh, Kingdom of Saudi Arabia. Presented a seminar on “The polycyclic flavonoid, trifolirhizin, inhibits proliferation in LNCaP and PC3 human prostate cancer cells by arresting cell cycle progression at G1/S and G2/M, respectively” (3/2008).
  - College of Medicine, King Saud University, Riyadh, Kingdom of Saudi Arabia. Presented a seminar on “Modulation of p21 human tumor suppressor gene expression by zinc status in human hepatoblastoma and normal human bronchial epithelial cells” (3/2008).
  - King Faisal Specialists Hospital Research Center, Riyadh, Kingdom of Saudi Arabia. Presented a seminar on “Modulation of human tumor suppressor genes, GADD45, p53 and p38 MAP by zinc status in normal human bronchial epithelial cells” (3/2008).
  - National Institute of Nutritional Sciences at Shanghai, Chinese National Academy of Sciences. “Modulation of human tumor suppressor genes, Gadd45, p53 and p38 MAPK by zinc status in normal human bronchial cells” (8/2008).
  - Female Center for Scientific and Medical Colleges, King Saud University, Riyadh, Kingdom of Saudi Arabia. Presented a seminar on “Perspective of graduate studies in the US” (2/2009).

## **F. Administrative/Leadership Experience**

1. Leader of a medium-size research team at the UA: Supervised 2 research assistant professors, 2 post-doctoral researchers, 3 graduate students and 1 undergraduate student helper; actively sought funds to provide support for all positions in this team and for the operation of the Molecular Nutrition Laboratory (\$250,000 to \$300,000/year, 1995 to 2000).
2. Chair, Seminar Committee of the Interdisciplinary Nutritional Sciences Program at the UA (1984, 1988): Supervised a steering committee in identifying external and internal speakers; coordinated the presentations and visits by speakers; managed a small budget to cover travel expenses for outside speakers.
3. Chair, Mini-Symposium on Copper at the Experimental Biology 1995 Meeting: Organized the submitted abstracts into sessions of slide or poster presentations; contacted speakers to ensure that the theme of “Molecular and Metabolic Aspects of Copper” was emphasized in the slide session.
4. Program Manager of the Improving Human Nutrition for Optimal Health Grants Program (1996-1997), USDA - NRICGP, Washington, D.C. Together with the Program Director, Dr. Kathleen Ellwood, we assembled a 15-member panel, assigned grants to panel members and ad hoc reviewers as well as chaired the panel review for 136 grants.
5. Chair, Graduate Committee of the Department of Nutritional Sciences at the UA (1997-2000): Coordinated graduate curriculum, administered graduate admission and managed all matter pertaining to the MS program in the department.
6. Chair, Promotion and Tenure Committee of the Department of Nutritional Sciences at UA (1998-2000): Coordinated the evaluation of all departmental P and T packages.
7. Chair, Department of Nutrition and Food Science, University of Maryland at College Park (2000-2005). Administered a Joint department with 15 faculty members in a Research One Institution as well as functions as the PI of a USDA cooperative agreement which funded 22 faculty extension assistants and associates housed at the Food and Nutrition Information Center, National Agriculture Library.
8. Lei as director of equipment acquisition initiated the establishment of a new Molecular Cancer Biology (MCB) Research lab at King Saud University (KSU) in 2008. Thereafter, Lei functions as lead scientist to advise the MCB lab, consisting of 2 other KSU PIs and 3 research associates (2008 – present), to perform research in the following areas: a). the effect of nutrients, in particular essential minerals such as zinc, as well as the environment influence of metal contaminants, on

cancer prevalence and expression of cancer biomarkers in Saudi populations; b). the optimal processes for extraction of Saudi plant materials with bioactivities, as well as to evaluate their tumor suppressor activity, gene expression, and signal transduction pathways using cell-based systems; and c). the use of nano particles for target delivery of bioactives to tumor cells.

## G. Publications

### Books and Monographs

1. **Lei KY** (Editor/Author). Role of Copper in Lipid Metabolism. CRC Press, Boca Raton, Florida (287 pages, 1990).

### Chapters in Scholarly Books and Monographs

2. Prasad AS, Moghissi KS, **Lei KY**, Oberleas D, and Stryker JC (1977). "Effects of oral contraceptives on micronutrients and changes in trace elements due to pregnancy." Nutritional Impact on Women, edited by K.S. Moghissi. Harper & Row, Hagerstown, Maryland. pp. 160-188.
3. Prasad AS, **Lei KY**, and Moghissi KS (1978). "Effect of oral contraceptives on micronutrients," in Nutrition and Human Reproduction, edited by W.H. Mosley, Plenum Press, New York. pp. 61- 85.
4. Willcox KK and **Lei KY** (1987). "Dietary fats and the aging adult," in Nutrition and Heart Disease, Vol. I, edited by Ronald R. Watson, CRC Press, Boca Raton, Florida, pp. 21-28.
5. **Lei KY** (1990). "Plasma cholesterol response in copper deficiency", in Role of Copper in Lipid Metabolism, K. Y. Lei, Editor, CRC Press, Boca Raton, Florida, pp. 1-23.
6. **Lei KY** (1990). "Cholesterol metabolism in copper-deficient rats", in Role of Copper in Lipid Metabolism, K. Y. Lei, Editor, CRC Press, Boca Raton, Florida, pp. 25-57.
7. **Lei KY** and Carr TP (1990). "Plasma lipoproteins and apolipoproteins in copper deficiency", in Role of Copper in Lipid Metabolism, K.Y. Lei, Editor, CRC Press, Boca Raton, Florida, pp. 58-88.
8. Carr TP and **Lei KY** (1990). "Copper and high density lipoprotein catabolism in vivo", in Role of Copper in Lipid Metabolism, K. Y. Lei, Editor, CRC Press, Boca Raton, Florida, pp. 89-101.
9. Hassel CA and **Lei KY** (1990). " Lipoprotein receptors in copper-deficient rats: Application of radioligand binding techniques", in Role of Copper in Lipid Metabolism, K. Y. Lei, Editor, CRC Press, Boca Raton, Florida, pp. 103-122.
10. **Lei KY** (1991). "Dietary copper: Cholesterol and lipoprotein metabolism," in Annual Review of Nutrition, edited by R.E. Olson, D.M. Bier, and D.B. McCormick, Annual Reviews, Inc., Palo Alto, CA, Vol. 11, pp. 265-283.

### Refereed Journal Articles

11. **Lei KY** and Slinger SJ (1970). Energy utilization in the chick in relation to certain environmental stresses. *Can. J. Anim. Sci.* 50:285-292.
12. **Lei KY**, Stefanovic MP, and Slinger SJ (1972). Effect of population density on energy utilization, intestinal disaccharidases, and adrenal function in hens. *Can. J. Anim. Sci.* 52:103-112.
13. **Lei KY** and Yang MG (1972). Oral contraceptives, norethynodrel and mestranol: effects on glucose tolerance, tissue uptake of glucose-U-14C and insulin sensitivity. *Proc. Soc. Exp. Biol. Med.* 141:130-136.
14. Yang MG, Krawford KS, Garcia JD, Wang JHC, and **Lei KY** (1972). Deposition of mercury in fetal and maternal brain. *Proc. Soc. Exp. Biol. Med.* 141:1004-1007.

15. Yang MG, Wang JHC, Garcia JD, Post E, and **Lei KY** (1973). Mammary transfer of  $^{203}\text{Hg}$  from mothers to brains of nursing rats. *Proc. Soc. Exp. Biol. Med.* 142:723-726.
16. **Lei KY**, Yang MG, Oberleas D, and Prasad AS (1975). Oral contraceptives: Effects on plasma insulin response to glucose and on the response to insulin and 2-deoxyglucose uptake by peripheral tissue. *Proc. Soc. Exp. Biol. Med.* 149:417-421.
17. Prasad AS, Oberleas D, **Lei KY**, Moghissi KS, and Stryker JC (1975). Effects of oral contraceptives on nutrients. I. Minerals. *Am. J. Clin. Nutr.* 28:377-384.
18. Prasad AS, **Lei KY**, Oberleas D, Moghissi KS, and Stryker JC (1975). Effects of oral contraceptives on nutrients. II. Vitamins. *Am. J. Clin. Nutr.* 28:385-391.
19. Prasad AS, **Lei KY**, Moghissi KS, Stryker JC, and Oberleas D (1976). Effects of oral contraceptives on nutrients. III. Vitamin  $\text{B}_6$  and  $\text{B}_{12}$  and folic acid. *Am. J. Obstet. Gynecol.*, 125:1063-1069.
20. **Lei KY**, Prasad AS, Bowersox E, and Oberleas D (1976). Oral contraceptives, norethindrone and mestranol: effects on tissue levels of minerals. *Am. J. Physiology.* 231:98-103.
21. **Lei KY**, Abassi A, and Prasad AS (1976). Function of pituitary-gonadal axis in zinc deficient rats. *Am. J. Physiology* 230:1730-1732.
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**Lei's Former Graduate Students: 17 Ph.D. and 26 MS graduated.**

<b>Name</b>	<b>Degree(s)</b>	<b>Graduation Dates</b>	<b>Present Position</b>
Al-Othman, A.	Ph.D.	1992	Rector (President) & Professor, King Saud University, Kingdom of Saudi Arabia
Al-Azzawi, S.S.	M.S.	1980	
Allen, D.K.	M.S.	1983	
Alshatwi, A.	Ph.D.	2003	Professor, King Saud University
Alsaif, M.	Ph.D.	2001	Vice Dean (College of Applied Medical Sciences) & Professor, King Saud University
Arima, K.	M.S.	1998	
Carr, T.P.	Ph.D.	1990	Professor, University of Nebraska
Choi, H.	M.S.	1986	
Chung, S.	Ph. D.	1999	Oklahoma State University
Croswell, S.C. (Sharifi)	M.S.	1984	MD in neurology, practicing medicine for indigent care in Terre Haute, Indiana
Fang, M.M.	Ph.D.	1978	
Fanzo, J.C.	Ph.D.	2000	Nutrition Coordinator, Millennium Villages Project The Earth Institute at Columbia University
Harrison, C. J.	M.S.	1982	
Hassel, C.A.	Ph. D.	1987	Associate Professor, University of Minnesota
Han, T. C.	Ph. D.	2007	Research scientist, Marx Planck Institute
Hing, S.A.O.	M.S.	1986	Research scientist for a pharmaceutical company, San Francisco, CA
Hoogeveen, R.	Ph.D.	1993	Research Program Director in a Biotech. Company, Baylor College of Medicine
Kahn, M.	M.S.	1992	
Kreuzfeld, K.L.	M.S.	1983	Chiropractor, with practice in Tucson, AZ
Kwan, Y.M.	M.S.	1980	
Li, Shen (Schmidt)	M.S.	1990	MD in family practice, practicing medicine for indigent care in Tucson, AZ
Lin, I.M.	M.S.	1980	
Looney, M.A.	M.S.	1976	
Nonavinakere, V.K.	M.S.	1980	

Powell-Beard, L.P.	M.S.	1983	Director of Nutrition, Canyon Ranch Resort, Tucson, AZ
Reeves, S.	Ph D.	1995	Assistant Professor, California State University, San Luis Obispo
Shao, M.J.S.	M.S.	1979	
Shih, R. S. M.	Ph.D.	2007	R&D Senior Scientist Genetic Systems Division Life Technologies, Foster City, CA
Surina, D.	M.S.	1991	
Taylor, C. M.	M.S.	1979	
Teaque-Baker, T.	M.S.	1983	General Manager, Arizona Milk Producers/Dairy Council of Arizona
Trasino, S.	Ph.D.	2011	
Tsai, R.C.T.	M.S.	1977	
Wilbanks, T.F.	M.S.	1977	
Wilcox, K.K.	M.S.	1983	
Wong, S. H. K.	Ph.D.	2007	Post-doc in Dept. of Pathology at Stanford University
Wu, J.Y.	Ph.D.	1996	Program Manager, American Rubber Association, Washington DC
Wu, Y.	M.S.	1997	Research scientist, University of Arizona, Tucson, AZ
Young, L.C. (Griffith)	M.S.	1979	Director of School Lunch Program Mississippi State Government
Zhang, J.	M.S.	1988	Research scientist, Wright State University
Zhang, J.	Ph.D.	1994	Research scientist, Wright State University
Zhang, J.J.	Ph.D.	2008	Research scientist, University of Maryland
Zhu, L	M.S.	1997	

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