**Curriculum Vitae**

**Christine Eleana Kasper, PhD, RN, FAAN, FACSM**

**Dept. of Veterans Affairs, Central Office, Office of Nursing Services and**

**Uniformed Services University of the Health Sciences**

**Daniel K. Inouye Graduate School of Nursing /**

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**Bethesda, MD 20814-4799**

**PERSONAL DATA**

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| **EDUCATION AND TRAINING** | | | |
| **Dates Attended**  2007 | **Institution and Location**  National Institutes of Health & Georgetown University | **Program/ Degree**  Summer Genetics Institute, Fellow | **Major**  Genetics |
| 2001 | Harvard University,  School of Higher Education  Cambridge, MA | Certificate | Higher Education Management |
| 1982-1984 | Rush University  Department of Physiology/ Biophysics, Chicago, IL | Post Doctoral Fellow | Physiology/ Biophysics |
| 1977-1982 | University of Michigan  Ann Arbor, MI | Ph.D. | Nursing |
| 1975-1976 | Rush University  College of Nursing  Chicago, IL | M.S. | Nursing |
| 1973 | Harlaxton College, Grantham & District Hospital, Lincolnshire, UK | Obstetrical Nursing | Nursing |
| 1971-1975 | University of Evansville  Evansville, IN | B.S. | Nursing |

**LICENSURE:**

| **Inclusive Years** | **Licensure** | **Number** |
| --- | --- | --- |
| 1997-present | Maryland | R134496 |
| 1988-1998 | California | 459854 |
| 1984-1989 | Wisconsin | 89510 |
| 1977-1989 | Michigan | 117283 |
| 1975-1988 | Illinois | 041-162948 |

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| **Year** | **Certifications** |
| 1995 | Smith College, Molecular Biology/New England Biomedical Labs |
| 1999 | Life Technologies: Quantitative PCR, Rockville, MD |
| 2000 | Life Technologies: Cloning and Protein Expression, Rockville, MD |
| 2000 | Life Technologies: Recombinant DNA Technique, Rockville, MD |
| 2002 | WIPO (World Intellectual Property Organization) Technology Transfer |

| **PROFESSIONAL EXPERIENCE** | | |
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| **Year** | **Title** | **Institution** |
| 2007- 2011  2005- 2007 | Director, PhD Program  Associate Director, PhD Program | USU, Daniel K. Inouye Grad. Sch. of Nursing  USU, Daniel K. Inouye Grad. Sch. of Nursing |
| 2003-Present | Professor and Sr. Research Scientist | Dept. of Veterans Affairs, Office of Nursing Services, Washington DC |
| 2003-Present | Professor | USU, Bethesda, MD |
| 2001- 2003 | Visiting Scientist | NIH, National Institute on Aging |
| 2001- 2011 | Member, Governor’s Committee on Spinal Cord Injury Research | State of Maryland, Governor |
| 2000-2004 | Adjunct Faculty | Winston-Salem State University (HBCU), Winston-Salem, NC |
| 1998-2000 | Director, Doctoral Programs (Pre-doctoral and Post-doctoral)  Graduate Board, JHU | Johns Hopkins University  School of Nursing, Baltimore, MD  Johns Hopkins University, Baltimore, MD |
| 1997-2003 | M. Adelaide Nutting Endowed Research Chair | Johns Hopkins University  School of Nursing, Baltimore, MD |
| 1996-1997 | Associate Professor (Tenured) | UCLA, School of Nursing, Los Angeles, CA |
| 1991- 1997 | Member, Jonsson Comprehensive Cancer Center, Cell Biology Division | UCLA, School of Medicine, Los Angeles, CA |
| 1989-1997 | Member, Jerry Lewis Neuromuscular Research Center | UCLA, School of Medicine, Los Angeles, CA |
| 1988-1996 | Assistant Professor | UCLA, School of Nursing, Los Angeles, CA |
| 1984-1988 | Assistant Professor | University of Wisconsin-Madison  School of Nursing, Madison, WI |
| 1982-1984 | Post-doctoral Fellow, Dept. Physiology & Biophysics | Rush Medical College, Chicago, IL |

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| **Editorship of Journal(s)** | |  |
| **Years** | **Name of Journal** |  |
| 1997 - 2002 | Founding Editor, Biologic Research in Nursing, Sage Publications: Thousand  Oaks: CA. | |
| 2008- Present | Editor , Annual Review of Nursing Research, Springer Publications, NY, NY | |

| **HONORS AND AWARDS** | |
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| **Dates Award** | |
| 2014  2013 | Distinguished Lecturer, University of South Florida, Tampa, FL  Beverly H. Bowns Distinguished Visiting Professor, University of Tennessee Health Sciences Center, Memphis, TN |
| 2011 | USU, University Medal for Outstanding Service |
| 2011,2012 | USU, Outstanding Doctoral Faculty Award |
| 2006,2007 | USU, Faye G. Abdellah Senior Researcher Award |
| 2004 | USU, Teaching Award, PhD Program |
| 2000 | Federal University of Pernambuco, Recifé, Brazil. University Research Medal. |
| 2000 | NIH: National Library of Medicine. Outstanding new research journal, (Biologic Research for Nursing) |
| 1999 | NIH: Office of the Director, Rat Model Priority Advisory Panel to Dr. Harold Varmus |
| 1997-2001 | NIH: CSR Respiratory and Applied Physiology (RAP), Study Section, chartered member. |
| 1995 | Elected Fellow of the American College of Sports Medicine (FACSM). |
| 1995-1997 | NIH: CSR Respiratory and Applied Physiology (RAP) Study Section, ad-hoc member. |
| 1994 | Elected to Fellowship in the American Academy of Nursing (FAAN). |
| 1993 | Alpha Tau Delta, National Nursing Society, Nat’l Faculty Advisor of the Year. |
| 1991 | UCLA Faculty Career Development Award |
| 1980 | American Nurses Foundation Scholar |
| 1980 | Rackham Graduate School, Univ. of Michigan, Dissertation/Thesis Award for Graduate Research |
| 1978-81 | National Research Service Award, Department of Health and Human Services |
| 1977 | Sigma Theta Tau, National Honor Society |

| **RESEARCH/SCHOLARSHIP** | | | | | | | | | | |
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| **Investigations Funded** | | | | | | | | | |  |
| **Year** | **Role** | **% Effort** | | | | **PI** | **Title** | **Funding Agency** | | **Amount** |
| 1978-1981 | PI | 100% | | | | C. E. Kasper | National Research Service Award, Pre-doctoral Fellowship | US Dept. Health & Human Services | |  |
| 1980-1982 | PI | 20% | | | | C. E. Kasper | Adaptation of Skeletal Muscle to Prolonged Immobility | American Nurses’ Foundation | | $2,500 |
| 1984 | PI | 20% | | | | C. E. Kasper | Recovery from Skeletal Muscle Atrophy: Injury Potential | Chicago Community Trust Fund | | $3,000 |
| 1984-1985 | PI |  | | | | C. E. Kasper | Recovery from Skeletal Muscle Atrophy Injury Potential | Wisconsin Alumni Research Foundation | | $2,000 |
| 1985-1986 | PI |  | | | | C. E. Kasper | Recovery from Skeletal Muscle Atrophy | Wisconsin Alumni Research Foundation | | $15,500 |
| 1985-1986 | PI |  | | | | C. E. Kasper | Molecular Basis of Tension Development in Muscle Atrophy | University of Wisconsin, School of Nursing | | $4,500 |
| 1986-1987 | PI |  | | | | C. E. Kasper | Molecular Basis of Tension Development in Muscular Atrophy | University of Wisconsin, Grad. School | | $12,552 |
| 1986-1987 | PI |  | | | | C. E. Kasper | The Effects of Reduced Activity on Skeletal Muscle in Aged Rats | University of Wisconsin-Madison | | $2,548 |
| 1986-1987 | PI |  | | | | C. E. Kasper | Skeletal Muscle Adaptation to Decreased Activity & Exercise During Recovery | Wisconsin Alumni Research Foundation (WARF) | | $4,378 |
| 1988-1992 | PI |  | | | | C. E. Kasper | Molecular Basis of Tension Development during Recovery from Atrophy. | NASA: NAG-9-323 and | | $220,305 |
| 1989-92 | PI |  | | | | C. E. Kasper | Investigation of the Effects of Microgravity on Titin and Myonuclei. PARE-01 Project, **NASA *Shuttle Flight STS-48, Launch Sept. 12, 1991****.* | Sub-grant to NAG-9-323, | |  |
| 1988-1994 | PI |  | | | | C. E. Kasper | Atrophy of Skeletal Muscle Change in Tension Development. | NIH: R29 NR02204-01 | | $350,000 |
| 1988- 1989 | PI |  | | | | C. E. Kasper | Adaptation of Atrophied Skeletal Muscle to Exercise during Recovery: Time Sequence.” | UCLA, Faculty Senate | | $2,500 |
| 1990-1991 | PI |  | | | | C. E. Kasper | Computer Hardware & Assisted Instruction. | Helene Fuld Health Trust Grant. | | $18,628 |
| 1991-1994 | Co-PI |  | | | | S. M. Ludington | Skin to skin contact for pre term infants & their mothers. | NINR | | $994,338 |
| 1992-1997 | Co-PI | 10% | | | | K. Dracup,  G. Padilla | Nursing Research in Health Quality of Life. | NIH: NINR | | $506,838 |
| 1992-1993 | PI | 10% | | | | C. E. Kasper | Physiologic & Physiologic Correlates of Functional Status during Adjuvant Chemotherapy for Breast Cancer: A Pilot Study. | UCLA, Academic Senate Award | | $3,474 |
| 1993-2000 | PI | 40% | | | | C. E. Kasper | Control of Muscle Fiber Size in Adaptation | NIH: R01 NR 02922 | | $1,352,000 |
| 1994-1998 | Sponsor |  | | | | J. Halle | Prevention of Hypoxic Brain Damage in the Newborn | NIH: NINR  Pre-doctoral Award | | $88,000 |
| 1995-1998 | Co- I |  | | | | S. Ludington | Pulmonary Improvement for Pre-term Infants (The James Shannon Director’s Award) | NIH: R55 NR/OD02251-04 | | $100,000 |
| 1998-2001 | Sponsor |  | | | | T. Andrade | Expression in Fetal Hemoglobin Adult HbF Levels | NIH: NRSA (Pre-doctoral) | | $72,000 |
| 1998-1999 | Consult-ant | |  | | | L. Talbot | Effects of Electrical Muscle Stimulation on Quadriceps Muscle Strength in Women with Osteoarthritis | Program in Gerontology, JHU | | $40,000 |
| 1999-2003 | Co-I | | 10% | | | F. Gaston-Johansson | Global Health Promotion Research Training Program | NIH: Fogarty  T37-TW00108 | | $683,000 |
| 2001-2005 | Co-I | | 5% | | | V. Mock | Mitigating Cancer Treatment- Related Fatigue by Exercise | NIH: NR04991 | | $1,155,680 |
| 2000-2004 | Co-PI | | 10% | | | S. Ling/C. Kasper | Weakness from Inflammation: A Basis of Disability from Knee Osteoarthritis | NIH: Nat’l Institute of Aging | | Intramural |
| 2000-2005 | Co-I | | | 6% | | Flack, S. Winston-Salem State University | Developing a Training Program in Breast Cancer Research: Disease & Disparity of Morbidity & Mortality in Underserved Minority Women | U.S. Dept. of Defense (DOD) | | $998,658 |
| 2001-2003 | PI | | | 25% | | Page/ Kasper | The Impact of Chronic Neuropathic Pain on Muscle Function & Metastatic Susceptibility | Blaustein Cancer Research Grant | | $40,000 |
| 2003-2004 | Co-PI | | |  | | S. Ling / C. Kasper | Arthritis-Induced Muscle Dysfunction | NIH: Nat’l Inst. of Aging | | Intramural |
| 2005-2006 | Co-PI | | | 5% | | R. Ricciardi | Impact of Body Armor on Physical Work Performance | TriSerivce Nursing Research | | $40,000 |
| 2006-2007 | Co-I | | | | 15% | C. Engstrom | Hot Flashes in Prostate Cancer Patients | | VA Nursing Pilot Grant | $10,000 |

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| 2007-2009 | Co-I | 10% | M. Kane | Gene Expression Analysis and Genotoxic Potential of Weapons Grade Embedded Tungsten Alloys in Male F344 Rats | USU GSN Intramural | $5,000 |
| 2008-2014 | PI | 35% | C. E. Kasper | Recovery from Mild and Severe Traumatic Brain Injury | VA Merit Award | $736,100 |
| 2009- 2010 | Co-I | 5% | J. F. Kalinich | Effect of Militarily-Relevant Metals on Muscle Wound Repair | US Army Medical Rsch. & Materiel Command | $166,525 |
| 2010-2012 | Co-I | 10% | S. Perry | Catecholamine Induced RyR1 Ca2+ Release in Malignant Hyperthermia Sensitive Human B-Lymphocytes | American Asso. of Nurse Anesthetists Foundation | $15,295 |
| 2011-2012 | PI | 15% | C.E. Kasper | Pilot Award: PET- CT Imaging of tissue alterations of embedded metal fragments | VA Embedded Metals Center | $26,000 |
| 2012- 2013 | PI |  | C.E. Kasper | The Effect of Military-Relevant Metals on Muscle Cell Differentiation and Repair | VA Office of Nursing Services | $69,000 |
| 2013 | Co-I | 5% | G. Ander-son | Genomic Nursing Competency Assessment Tool | VA Office of Nursing Services | $54,633 |
| 2013 -14 | Co-I | 10% | L. Michael-son | Pilot Study of Fatigability, and Eccentric Injury Comparison between Skeletal Muscle of Heavy Metal (W,Ni,CO) Embedded F344 Rats and Non-Heavy Metal Imbedded Rats. | VA Office of Nursing Services | $75,000 |
| 2014 | Co-I | 5% | L. Michael-son | CNG Channel Expression and cAMP Levels in Human B-Cells: A Pilot Study | VA Office of Nursing Services | $72,000 |

| **Investigations Submitted** | | | | | |  |
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| **Year** | **Role** | **%**  **Effort** | **PI** | **Title** | **Funding Agency** | **Amount** |
| 2014 | PI | 40 | C.E. Kasper | Role of Pyridostigmine and Inhalation of Desert-Dust Metals in Gulf War Illness | VA BLRD | $2,000,000 |

### EDITORIAL ACTIVITIES

**Refereed articles:**

Chen, F., J. Lutz, and **C.E. Kasper**. Hypokinesia-induced negative calcium balance reversed by weight-bearing exercise. Aviation, Space and Environmental Medicine, 58:308-314, 1987.

Reiser, P.J., **C.E. Kasper**, and R.L. Moss. Myosin subunits and contractile properties of single fibers from normal and hypokinetic adult rat fast and slow muscles. J. Appl. Physiol. 63(6): 2295-2300, 1987.

Reiser, P.J., **C.E. Kasper**, M.L. Greaser, and M.L. Moss. Functional significance of myosin transitions in single fibers of developing soleus muscle. Am.J. Physiol. 254 (Cell Physiol. 23): C605-C613, 1988.

**Kasper**, **C.E.,** D. Huetteman, and S. K. Donaldson. Fixation and EM Visualization of single peeled mammalian skeletal muscle fibers. J. of Electron Microscopy Technique, June, 12(2): 177-178, 1989.

**Kasper, C.E.,** T.P. White, and L.C. Maxwell. Running during recovery from hypodynamia induces transient muscle injury. J. Appl. Physiol, 68(2):533-539, 1990.

Maloni, J.A., and **Kasper, C. E.** Physical and psychosocial effects of antepartum hospital bedrest: A review of the literature. Image: Journal of Nursing Scholarship, 23(3):187-192,1991.

McNulty, A., Otto, A., **Kasper**, **C. E.** and Thomas, D.P. Effect of recovery mode following hind-limb suspension on soleus muscle composition in the rat. Int. J. Sports Med., 13:6-14, 1992.

St. Pierre, B. **Kasper, C. E**., and Lindsey, A. M.. Fatigue Mechanisms in Cancer Patients: TNF and Exercise Effects on Skeletal Muscle Factors. Oncology Nursing Forum, 19(3):419-425, 1992.

**Kasper, C.E.**, McNulty, A. L., Otto, A. J. and Thomas, D. P. Alterations in Skeletal Muscle Related to Impaired Physical Mobility: An Empirical Model. Research in Nursing and Health, 16: 265-273, 1993.

**Kasper, C. E**. “A day in the life of a nurse researcher,” The American Nurse, p. 11, January, 1993.

Tseng, B., **Kasper, C. E.**, Edgerton, V.R. Shape, density, and spatial distribution of myonuclei in rat slow and fast muscle fiber segments. Cell and Tissue Rsch., 275:39-49, 1994.

Miller, J., Halle, J., **Kasper, C. E.**, and Sampselle, C. Review of Muscle Physiology with Application to Pelvic Muscle Exercise. Urologic Nursing, 14:92-97, 1994.

**Kasper, C.E.**, St. Pierre, B., Fuchs, A. and Garfinkel, A. Spatial Patterns of Muscle Fiber Types in Atrophied Skeletal Muscle. Western Journal of Nursing Research, 17(1):49-62, 1995.

Boyington, A. R., Dougherty, M. C. and **Kasper, C. E**. Pelvic Muscle Profile Types in Response to Pelvic Muscle Exercise. International Urogynecology Journal 6(2): 68-72, 1995.

**Kasper, C. E.** Sarcolemmal Disruption in Reloaded Atrophic Skeletal Muscle. J. Appl. Physiol. 79(2): 607-614, 1995.

**Kasper, C. E**. Going Through the Motions: The Ethics of Process. J Cardiovascular Nrsg. 9(3):62-67, 1995.

Ludington-Hoe, S. and **Kasper, C.E.** Physiologic Monitoring of Premature Infants. J. Nrsg. Measurement, 3(1):13-29, 1995.

**Kasper, C. E**. Personal Digital Assistants and Clinical Practice. Western Journal of Nursing Research, 18 (6): 717-720, 1996.

**Kasper, C. E**, White, T. P. and Maxwell, L.C. Alterations in Skeletal Muscle Related to Short-term Impaired Physical Mobility. Research in Nursing and Health, 19(2): 133-142, 1996.

**Kasper, C. E.** and Xun, L. Cytoplasm-to-Myonucleus Ratios in Plantaris and Soleus Muscle Fibers Following Hindlimb Suspension. Journal Muscle Rsch and Cell Motility, 17:603-610, 1996.

**Kasper, C. E**. and Xun, L. Adaptation of Myonuclei to Short Term Microgravity. Journal Muscle Rsch and Cell Motility, 17:595-602, 1996.

Halle, J. N., **Kasper, C. E.**, Gidday, J.M., and Koos, B. J. Enhancing adenosine A receptor binding reduces hypoxic-ischemic brain1 injury in newborn rats. Brain Research, 759: 309-312, 1997.

**Kasper, C.E.** Recovery of Plantaris Muscle from Impaired Physical Mobility. Biological Research for Nursing, 1(1): 3-10, 1999.

**Kasper, C. E**. Spatial Patterns of Atrophied Muscle Fibers During Exercised Recovery, Biological Research for Nursing, 1(1): 36-46, 1999.

**Kasper, C. E**., Sarna, L. P. Influence of adjuvant chemotherapy on skeletal muscle and fatigue in women with breast cancer. Biological Research for Nursing, 2(2):133-140, 2000.

**Kasper, C.E** & Xun, L. Expression of Titin in Skeletal Muscle Varies with Hindlimb Unloading. Biological Research for Nursing, 2(2): 107-116, 2000.

**Kasper, C.E.** Functional Loss: Aging Muscle during Rehabilitation. Orthopedic Physical Therapy Clinics of North America, June: 16-33, 2001.

**Kasper, C.E.**, Talbot, L. & Gaines, J. Skeletal Muscle Damage and Recovery. AACN Clinical Issues: Advanced Practice in Acute and Critical Care, May 2002.

**Kasper, C.E.**, Talbot, L, & Gaines, J. ***Issue Editors***. AACN Clinical Issues: Advanced Practice in Acute and Critical. May 2002.

Sunnerhagen KS, Brown B, & **Kasper C.E**. Sitting up and transferring to a chair: two functional tests for patients with stroke. J Rehabil Med., 2003 Jul; 35(4): 180-3.

Nelson, J, Bivens, A., Shinn, A, Wanzer, L., **Kasper, C.E**., McIlwain, K, & Burton J., Operating Room Telephone Microbial Flora. JORN March 2006, 83(3): 607-626.

Caroway, I.I., Sunnerhagen, K.S., **Kasper, C.E.,** & Svantesson, U. Passive Stiffness of the Plantar Flexors in Relation to Age and Functional Performance. Isokinetics Exer Sci., 14:25-31, 2006.

Engstrom, C. A. and **Kasper, C.E**., Physiology and Endocrinology of Hot Flashes in Prostate Cancer. J. Men’s Health, 1(1): 8-17, 2007.

**Kasper, C.E.** Genomic and Proteomic Methodologies for Vulnerable Populations Research. Ann. Rev. Nursing Rsch., 7:191-218, 2007.

Lavin, R., Dreyfus, M., Slepski, L., and **Kasper, C.E.** Said Another Way: Subject Matter Experts: Facts and Fiction. Nursing Forum, 42(4):189-195, 2007.

Kane MA, **Kasper C.E.**, Kalinich JF. [The use of established skeletal muscle cell lines to assess potential toxicity from embedded metal fragments.](http://www.ncbi.nlm.nih.gov.lrc1.usuhs.edu/pubmed/19124068?ordinalpos=1&itool=EntrezSystem2.PEntrez.Pubmed.Pubmed_ResultsPanel.Pubmed_DefaultReportPanel.Pubmed_RVDocSum) Toxicol. In Vitro, Mar;23(2):356-9, 2009 Epub 2008 Dec 16.

Kane, M.A., **Kasper, C.E**., and Kalinich, J.F. Protocol or the Assessment of Potential Health Effects from Embedded Metal Fragments. Military Medicine, 174(3): 265-269, 2009.

Kovesdi, E., Gyorgy, A., Kwon, S.-K., Wingo, D., **Kasper, C. E**., and Agoston, D. Improving adult neurogenesis and functional outcome after traumatic brain injury. Frontiers in Neuroscience, 5(42), 2011.

Kovesdi, E., Kamnaksh, A., Wingo, D, Ahmed, F., Grunberg, N.E., Long, J. B., **Kasper, C.E**., and Agoston, D.Acute minocycline treatment mitigates the symptoms of mild blast-induced traumatic brain injury. Frontiers in Neurology, 3(111), 2012.

Hood, MN, Song, T.; Bedocs, P., Capacchione, J. F., Ho, V. B., **Kasper, C.E,** andHaigney, M.C., Multi-Acquisition T1 Mapping MRI During Tidal Respiration for Quantification of Myocardial T1 in Swine with Heart Failure. Am. J. Roentgenology, 201:W563-W570, 2013.

Cowan, L., Fasoli, D.R., Hagle, M.E., **Kasper, C.E.**, Eagerton, G., Chappell, J., Gentile, D.L., Gordon, S.J., King, V., Madaris, L.L., Mancuso, J.M., Smith, K., and Alt-White, A. Creating an Infrastructure to Advance Nursing Practice and Care for Veterans. Nurse Leader, 11(5), 33-36, 2013.

Kalinich, J.F. and **Kasper, C.E**. Do metals that translocate to the brain exacerbate traumatic brain injury? Medical Hypotheses, *82*(5), 558-562, 2014.

Bardack, S., Dalgard, C. L., Kalinich, J.F. and **Kasper, C. E**., Genotoxic Changes to Rodent Cells Exposed In Vitro to Tungsten, Nickel, Cobalt and Iron, Int. J. Environ. Res. Public Health, *11*(3), 2922-2940, 2014.

DeLeon, P.H., Sells, J.R., Cassidy, O., Waters, A.J., and **Kasper, C.E**., Health Policy: Timely And Interdisciplinary, Training and Education in Professional Psychology, April, 2014. (accepted with revision June 2014).

# **Editorials**

**Kasper, C.E.** VA Nursing in the Genomic Era, NOVA Newsletter, Fall 2007.

# **Kasper, C.E.** Diversifying Nursing and Genetic Evolution, Letter to Editor, Nursing Outlook, Jan-Feb. 2003.

**Kasper, C.E.** May extinction not become the future of our profession. Nursing Outlook. 2002 Nov-Dec; 50(6):268-9.

# Perry, P. & **Kasper, C.E.** Establishing Biological Nursing Science, Biologic Research for Nursing, 2002.

Perry, P. & **Kasper, C.E.** Challenges Facing Research Scientists, Biologic Research for Nursing, 2(1): 3-4, 2000.

# **Kasper, C.E.** & Perry, P. Summer Camp for Scientists, Biologic Research for Nursing, 2 (2): 83, 2000.

# **Kasper, C.E.** & Perry, P. Structure Recapitulates Function, Biologic Research for Nursing, 1(4): 251-252, 2000.

Perry, P. & **Kasper, C.E.** A New Horizon for Biologic Research in Nursing, Biologic Research for Nursing, 1(1): 1-2, 1999.

Perry, P. & **Kasper, C.E.** On Genes and Genomes Mice and Humans, Biologic Research for Nursing, 1(2): 83-84, 1999.

**Book/Book Chapters**

**Kasper, C.E.** Molecular basis of tension development in muscular atrophy. In “1988-89 NASA Space/Gravitational Biology Accomplishments” NASA Technical Memorandum 4160, January, 1990, pp.134-13.

**Kasper, C.E.** “Antecedent Condition: Impaired Physical Mobility (Disuse Syndrome)”. In Altered Functioning: Impairment and Disability. Ed. B. L. Metzger. Monograph Series 90, Sigma Theta Tau International: April, 1991, pp. 20-38.

**Kasper, C.E.** Molecular basis of tension development in muscular atrophy. In “1989-90 NASA Space/Gravitational Biology Accomplishments” NASA Technical Memorandum 4258, February, 1991, pp. 128-131.

**Kasper, C.E.** “Skeletal Muscle Atrophy,” in Pathophysiological Phenomena in Nursing: Human Responses to Illness. Eds. Carrieri, V.K., A.M. Lindsey, and C.M. West. 2nd Ed. W.B. Saunders Co. Philadelphia, 1993.

Omery, A., **Kasper, C.E.**, & Page, G. (Eds, 1994). “In Search of Science: Nursing’s’ Quest for its’ Scientific Identity.” Thousand Oaks, California, 1994.

**Kasper, C. E**. (1994). “Pragmatism: The Problem with the Bottom Line,” in “In Search of Science: Nursing’s’ Quest for its’ Scientific Identity”, Eds. Omery, A., **Kasper, C.E.**, and Page, G. Sage: Thousand Oaks, California, 1994.

**Kasper, C.E.** (1994). Molecular basis of tension development in muscular atrophy. In “1992-93 NASA Space/Gravitational Biology Accomplishments” NASA Technical Memorandum 4258, pp. 160-163, February, 1994.

**Kasper, C.E.** Emerging Research Issues in Mobility, The Nursing Profession: Tomorrow’s Vision, Chaska, N. Ed., Sage Publications, CA, 2000.

**Kasper, C.E.** Integrating Basic Genetic Technologies. In “Nursing and Genetics - Leadership for Global Health,” Ed. S. Feetham*.* Geneva: International Council of Nurses, 2003.

**Kasper, C.E.** Skeletal Muscle Atrophy. Pathophysiological Phenomena in Nursing: Human Responses to Illness. Eds. Carrieri, V.K., Lindsey, A.M., and West, C.M. 3rd Ed., W.B. Saunders Co., Philadelphia, 2003.

**Kasper, C.E.** Annual Review of Nursing Research, Series Editor, “Advancing Nursing Science in Tobacco Control,” Vol 27, 2009, Springer, NY

**Kasper, C.E.** Preface. Annual Review of Nursing Research, Issue Ed. Sarna, L.P., Series Ed. **Kasper, C.E**., “Advancing Nursing Science in Tobacco Control,” Vol 27, 2009, Springer, NY.

**Kasper, C.E.** Annual Review of Nursing Research, Series Editor, “Advancing Nursing Science in Work Force Research,” Vol 28, 2010, Springer, NY.

**Kasper, C.E.** Preface. Annual Review of Nursing Research, Series Ed. **Kasper, C.E**., Advancing Nursing Science in Work Force Research,” Vol 28, 2010, Springer, NY.

**Kasper, C.E.** Preface. Annual Review of Nursing Research, Series Ed. **Kasper, C.E**., Advancing Nursing Science in Genetics Research,” Vol 29, 2011, Springer, NY.

**Kasper, C.E.** Skeletal Muscle and Genetics. Chapter 10. Annual Review of Nursing Research, Issue Ed. Pepper, G., Series Ed. **Kasper, C.E**., Advancing Nursing Science in Genetics,” Vol 29, 2011, Springer, NY.

**Kasper, C. E.** Preface. Annual Review of Nursing Research, Issue Ed., Couig, M.P. & Kelley, P.W. Series Ed. **Kasper, C.E**., Advancing Nursing Science in Disaster and Humanitarian Research,” Vol 30, 2012, Springer, NY.

**Kasper, C.E**. Animal Models of Exercise and Obesity, Chapter 1. Annual Review of Nursing Research, Issue Ed., Smith, B.A., Series Ed. **Kasper, C.E**., “Nursing Research in Exercise and Obesity,” Vol 31, 2013, Springer, NY.

Kalinich, J.F., Vane, E.A., Centeno, J.A., Gaitens, J., Squibb, K., McDiarmid, M.A., & **Kasper, C.E**., Embedded Metal Fragments, Annual Review of Nursing Research, Issue Ed., Kelley, P.A., Series Ed. **Kasper, C.E**., “Military Innovation in War,” Vol 32, 2014, Spinger, NY. (In Press).

**Abstracts**

**Kasper, C.E.**, White, T.P., and Maxwell, L.C. Adaptation of rat skeletal muscle to hypokinesia. The Physiologist, 25(4):260, 1982.

**Kasper, C.E.**, White, T.P., and Maxwell, L.C. Influence of exercise on the recovery of skeletal muscle from hypokinesia. Fed. Proc., 42(4):994, 1983.

**Kasper, C.E.**, Donaldson, S.K. and Huetteman, D. Uniform sarcomere lengths in mammalian peeled muscle fibers. Biophysical J., 45(2):102a, 1984.

Donaldson, S.K., Dunn, Jr., R.A., **Kasper**, **C.E.** and Huetteman, D.A. Cl- Stimulation of Ca2+ release in disrupted cardiac cells via ionic depolarization of plasma membrane fragments. Biophysical J., 47(2):280a, 1985.

McNulty, A.L., Otto, A.J., **Kasper**, **C.E.** andThomas, S.P. Use of the inverted cage suspension (ISC) model to induce skeletal muscle atrophy. Med Sci Sports Exercise. 18(2):55, 1986.

Otto, A.J., McNulty, A.L., **Kasper**, **C.E.** and Thomas, S.P. Effects of recovery mode on soleus muscle composition following hypokinesia. Med Sci Sports Exercise. 18(2):54, 1986.

Reiser, P.J., **Kasper, C.E.**, and Moss, R.L. Effects of decreased muscle activity on the velocity of shortening and myosin isozyme composition of single fibers from mammalian fast and slow muscles. Biophysical. J. 49(2):422a, 1986.

**Kasper, C.E.** Measurement of skeletal muscle-atrophy in models of decreased activity. Proceedings of Midwest Nursing Research Society Conference, April 18, 1988.

**Kasper, C. E**. Exercise-induced degeneration of skeletal muscle following inactivity. Proceedings of Midwest Nursing Research Society Conference, April 18, 1988.

**Kasper, C.E.**, Otto, A.J., and McNulty, A.L. Exercise-induced degeneration of hypodynamic skeletal muscle. ASGSB Bulletin, 2:57, August, 1989.

**Kasper, C.E.** and Thompson, J.L. Limitations of histochemical identification in transitional single skeletal muscle fibers. Biophysical J., 55(2):88a, 1989.

Thompson, J.L., **Kasper, C.E.**, and Garfinkel, A. Targetoid fibers in reloaded hypokinetic rat soleus. ASGSB Bulletin, 3(1): 119, 1989.

**Kasper, C. E**. Impact of physiological nursing research on direct patient care. Communicating Nursing Research, 23:237, 1990.

**Kasper, C.E.**, St. Pierre, B.A., Page, G.G., Garfinkel, A., and Woo, M. Spatial analysis of fiber type distributions in rat soleus muscle. ASGSB Bulletin, 3(1):119, 1990.

**Kasper, C.E.** and Townsley, J.R. Titin spacing in mechanically peeled single fibers with respect to fiber type. Biophysical J., 57(2):538a, 1990.

Tseng, B.S., **Kasper, C.E.**, and Edgerton, V.R. Nuclear density in isolated single rat skeletal muscle fibers with respect to fiber type. Biophysical J., 57(2):551a, 1990.

Tseng, B.S., **Kasper, C.E.**, and Edgerton, V.R. Spatial distribution and shape of myonuclei in isolated rat skeletal muscle fibers. Med Sci Sports Exercise, 23(4 Suppl.):S57, 1991.

Tseng, B.S., Allen, D. L., Sung, C. K., **Kasper, C.E.**, and Edgerton, V.R. Mechano-linkage of myonuclei with sarcomere length in isolated rat skeletal muscle fibers. Soc. Neurosci. Abstr., 17 (Part 1):650, 1991.

**Kasper, C.E.** and Xun, L. Adaptation of titin to short-term microgravity. ASGSB Bulletin, 6(1):87, 1992.

**Kasper, C.E.**, Xun, L., Monke, S. & Garfinkel, A. Adaptation of myonuclei to short-term microgravity. ASGSB Bulletin, 6(1):57, 1992.

**Kasper, C.E.** and Xun, L. Adaptation of titin to hindlimb unloading. Med. Sci. Sport & Exercise. 25 (5, Suppl.):S97, 1993.

**Kasper, C. E**., Xun, L., Mariola, M., Nguyen, T., Tobiano, P., and Benyamini, P. Sarcolemmal disruption during recovery from hindlimb unloading. The FASEB Journal, 8(4, Pt.1):A60, 1994.

**Kasper, C.E.** and Xun, L. Cytoplasm-To-Myonucleus Ratios In Atrophic Skeletal Muscle. Med Sci Sport & Exercise, 27(5):S121, 1995.

**Kasper, C.E.** A Role for Kinesin in Developing Soleus Muscle Fibers in the Rat. Biophys. J, 70(2): A21, 1996.

**Kasper, C.E.** Cytoplasmic Volume-to-myonucleus Ratios in Developing Rat Soleus and Plantaris Fibers. Med. Sci. Sport & Exercise, 28(5), 1996.

Halle, J., **Kasper, C.E.**, Gidday, J. and Koos, B. Neonatal hypoxic ischemic neuroprotection by the adenosine A1 receptor binding enhancer PD 81, 273. Proceedings of the Society for Gynecologic Investigation, 1997.

**Kasper, C.E** and Thompson, L. V. Altered nuclear control domains in aging skeletal muscle. Biophys. J., 72(2):A277, 1997.

**Kasper, C.E**. & Thompson, L. V. Altered nuclear control domains in aging skeletal muscle. J Women’s Health, 1998.

**Kasper, C.E.** Aging Skeletal Muscle Myonuclei, Med. Sci. Sports & Exercise, 31(5):S133, 1999.

**Kasper, C.E.**, Lamin in adapting skeletal muscle, Molecular Biol. Cell, Dec. 2002.

Galban, C., **Kasper, C.E.,** Spencer, R., and Ling, S.M. Arthritis-induced muscle dysfunction-atrophy, or more? Determination of bioenergetic reserve by in-vivo 31P nuclear magnetic resonance spectroscopy. J. Ortho. Research, Feb. 2003.

Batra, A., Ling, S.M., Spencer, R G S, **Kasper, C E**, Galban, C., Taub, D, & Abernethy, D R. Skeletal Muscle Atrophy Induced by Hind-limb Unloading is Associated with Low Muscle IL-6.In FASEB Journal, (Vol. 17, No. 5, pp. A957-A957), April, 2003.

Galban, C., Ling, S.M., **Kasper, C.E.,** & Spencer, R. G. S. Determination of Bioenergetic Reserve In Arthritis-Induced Muscle Dysfunction By In-Vivo 31p Nuclear Magnetic Resonance Spectroscopy,Magnetic Resonance in Medicine, May, 2003.

Kovesdi, E., Gyorgy, A., Kwon, S.-K., Wingo D., Walker J., **Kasper C**., & Agoston D. Effect of enriched environment on the outcome of traumatic brain injury. Neuroscience, November, 2010.

Hood, M. N., Slavin, G., Capacchione, J. F., Blokhin, A., Klein, M., **Kasper, C. E**., ... & Ho, V. B. (2012, November). Myocardial T1 Mapping MR and Collagen Changes in Tachycardia-Induced Heart Failure. In *CIRCULATION* (Vol. 126, No. 21).

**Media**

**Kasper, C.E.** Injuries and the weekend athlete. Johns Hopkins/InteliHealth News Commentary, PointCast, beginning 2/12/98.

**Kasper, C.E.** CBS TV News Segment “Living with Hope” following the television series, Chicago Hope. Discussion with astronaut John Glenn regarding aging and Muscle Atrophy. October 7, 1998.

Consultant to **ABC** TV Newsperson, Nancy Fleischer - Skeletal Muscle Research

| **Research Review Panels** | |
| --- | --- |
| 2010, 2012 | VA Office of Academic Affiliations, Pre-doctoral Associated Health & Rehabilitation Awards |
| 2008 - 2013 | VA Health Services Research & Development, Study Section member. |
| 2009 - 2011 | Mid-West Nursing Research Society, Research Grant Awards |
| 2008 - 2012 | VA Nursing Research Initiative |
| 2008 - 2009 | VA Office of Academic Affiliations, VA Nursing Academy |
| 2007 - 2008 | VA Office of Academic Affiliations, Post-doctoral awards |
| 2006 - 2008 | NIH: NIAMS Ad hoc study section |
| 2006 | VA Office of Nursing Research, TEACH Affiliation Grant Review |
|  | USU, Intramural Awards Review Panel |
|  | VA Office of Nursing Research, Nursing Pilot Awards |
| 2003 | NIH: NINR CSR Ad hoc study section |
| 2001-2007 | Sigma Theta Tau International, Research Grants |
| 1997-2001, 2004, 2007- 2009 | State of Maryland, Governors Spinal Cord Injury Board & Review |
| 1997-2003 | Review, International Mtg., Sigma Theta Tau International |
| 1997 | NIH: NIAMS Ad Hoc Study Section |
| 1998-2003 | American Assoc. Rehabilitation Nurses, Collateral Grant Review Board |
| 1997-2001 | NIH: Center for Scientific Review, Respiratory & Applied Physiology, Study Section, member |
| 1995-1996 | NIH: Center for Scientific Review, Respiratory & Applied Physiology, Study Section, ad-hoc member |
| 1992 | American Nurses’ Foundation, Collateral Reviewer |
| 1992-2003 | Sigma Theta Tau International, Collateral Grant Review & Annual Meeting |
| 1993 | NIH: DRG, Physiology/ Nursing, Ad hoc study section, R03 awards. |
| 1993 - 1995 | American Assoc. of Critical-Care Nurses/Sigma Theta Tau, Nat’l Rsch Grants. |
| 1993 -1997 | American College of Sports Medicine, Annual Meetings, Abstract Review |

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| **Editorial Boards** | |
| **Years** | **Name of Journal** |
| 2009 - Present | The Journal of Healthcare, Science and the Humanities |
| 2009 – Present | Annual Review of Nursing Research |
| 1995 – 2003 | The Journal of Cardiovascular Nursing |

| **Manuscript Reviews** | |
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| **Years** | **Name of Journal** |
| 2009- Present | Military Medicine |
| 2005- 2011 | Journal of Rheumatology |
| 2004 | APS Physiologica Scandinavica |
| 2002 - present | Journal of Advanced Nursing |
| 2000 - present | Journal of Professional Nursing |
| 1997- 2005 | Aviation Space & Environmental Medicine |
| 1997 - 2005 | Aging: Clinical and Experimental Research |
| 1994 - 2004 | American Journal of Physiology: Cell |
| 1993 - 2001 | The Journal of Cardiovascular Nursing |
| 1993 - 2005 | Medicine and Science in Sports and Exercise |
| 1991 - 2005 | Journal of Applied Physiology |
| 1991 - 1993 | American Journal of Critical Care |
| 1991 | Wm. C. Brown Publishers, critique of Human Physiology, 4th Edition |
| 1988 - 1991 | Heart & Lung |
| 1988 - 2004 | Image: Journal of Nursing Scholarship |
| 1987 - 2006 | Research in Nursing and Health |

| **Consultations** | | | |
| --- | --- | --- | --- |
| **Years** | **Role** | **Organization** |
| 1998-2000 | Consultant | E. Benz, MD, JHU, SOM, Chief of Medicine, Dept. of Medicine,  “41a gene in skeletal muscle”. |
| 2000-Present | Consultant | American Academy of Nursing (AAN), Genetics Expert Panel, Development of US National-Genetic Competencies for Registered Nurses |
| 2000-02 | Consultant | American College of Sports Medicine (ACSM) Clinical Exercise Physiology Certification |
| 1999-02 | Consultant | American College of Sports Medicine, Clinical Exercise Physiology Registry |
| 2001-03 | Consultant | D. Hanley, MD, Department of Neurology, JHMI, Skeletal Muscle Adaptation |
| 2001-02 | Consultant | University of Maryland, Department of Gerontology, Pepper Center Grant, A. Goldberg (PI) |
| 1999-07 | Consultant | Health for Humanity International, Wilmette, IL. |
| 2001-02 | Consultant | University of Gothenburg, Sweden, School of Medicine, Department of Orthopedics (Skeletal Muscle Rehabilitation) |
| 1999 | Consultant | Dr. H. Varmus, Director, NIH, Bethesda, MD; NIH Rat Model Priority Meeting, (5/3/99) |
| 1996-00 | Consultant | Judy Maloni, Ph.D. (PI), NIH: NINR, Side effects of Hospital Bedrest on High Risk Pregnancy. |
| 1991-92 | Consultant | Molly C. Dougherty, Ph.D.; Effect of pelvic muscle function on urinary incontinence, NIH: NINR. |
| 1991-92 | Consultant | Carolyn M. Sampselle, Ph.D., Stress urinary incontinence and pelvic muscle function, NIH: NCNR R29 NR01950. |

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| **Clinical Standards/Protocol Development** | |
| 2000 -2002 | American College of Sports Medicine, Standards of Clinical Exercise Physiology Practice (International practice standards) |

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| **Student Advisement** | | |
| **Post-Doctoral advisement** | | |
| **Year(s)** | **Student** | **Funding Agency (if any)** |
| 2012-14 | Luke Michaelson, PhD | Department of Veterans Affairs, RR&D |
| 2010-11 | Erzsebert Kovesdi, Ph.D. | Department of Veterans Affairs, RR&D |
| 2001- 04 | Tod Watson, Ph.D. | Dept. of Defense (DoD), Winston-Salem State University, North Carolina |
| 2000- 03 | Shari Ling, MD | National Institutes of Health, National Institute of Aging |
| 1990- 91 | Myoung Ae Choe, Ph.D. | Seoul National University, Seoul, Korea |
| 1988- 89 | Joyce Thompson, Ph.D. | National Institutes of Health |
| 1986 | Cos Caljouw, MD | University of Utrecht, Netherlands, & NIH |
| 1986- 87 | Franz Schmulders, MD, Ph.D. | University of Utrecht, Netherlands & NIH |

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| **Dissertation advisement (Ph.D.)** | | |  |
| **Year** | **Student** | **Title** | **Role** |
| 2008- 14 | Carl Goforth | The Impact of Functional Movement and Body Armor on Pain: A Secondary Analysis | Chair, Grad. Sch. Nursing, USU |
| 2009- 14 | Stephen Gonsalves | The Distribution and Allelic Heterogeneity of RyR1 Variants in ClinSeq Cohort | Chair, Grad. Sch. Nursing, USU |
| 2010- 14 | Susan Galloway | Neuro-Behavioral Effects of Blast Injury on Neurohypophysial Hormone Producing Neurons in Sprague Dawley Rats: Impact on Allostasis | Chair, Grad. Sch. Nursing, USU |
| 2010- 12 | Antoinette M. Shinn | PET/CT Surveillance of Toxic Embedded Fragments, An Animal Model | Member, Univ. of Maryland, School of Nursing |
| 2010- 12 | Nancy Gardetto | Patient Characteristics, Activation, and Self-Management Behaviors in Veterans with Heart Failure: What is the role of Activation? | Chair, Grad. Sch. Nursing, USU |
| 2010-14 | Mary Pat Couig | Adoption Of A Comprehensive Emergency Management Program: VA Employee Perceptions | Member, Grad. Sch. Nursing, USU |
| 2009- 11 | Stephanie Bardack | Genotoxic Changes to Rodent Cells Exposed *In Vitro* to Tungsten, Nickel, Cobalt and Iron | Chair, Grad. Sch. Nursing, USU |
| 2009- 12 | Susan Perry | Catecholamine Induced RyR1 Ca2+ Release in Malignant Hyperthermia Sensitive Human B-Lymphocytes | Chair, Grad. Sch. Nursing, USU |
| 2009- 13 | Deidre O. Smith | The Military and Federal Nurse Use of Habitus During the Journey and Recovery of the Service Member Wounded in Overseas Contingency Operations: Operation Iraqi Freedom, Operation Enduring Freedom and Operation New Dawn | Member, Grad. Sch. Nursing, USU |
| 2009- 10 | Deborah Hansen | Paternal Environmental Exposures and Reproductive Outcomes: A Comparison of *in vitro* and *in vivo* Fertilization | Member, Univ. of Missouri-St. Louis |
| 2008- 12 | Ann Peterson | Pulmonary Infections and Cytokines in a Patient Population | Chair, Grad. Sch. Nursing, USU |
| 2007- 09 | Victoria Davey | Understanding and Mitigating Influenza Pandemics at the Community Level: Studies using Loki Infect, a Networked, Agent-Based Model | Chair, Grad. Sch. Nursing, USU |
| 2006- 11 | Maureen Hood | Magnetic Resonance Imaging of Heart Failure Using a Swine Model | Chair, Grad. Sch. Nursing, USU |
| 2006- 11 | Margaret Kiel | Increased Protein Kinase A Activity in the Prkar1a- defective mouse is associated with hyperarousal and increased anxiety | Chair, Grad. Sch. Nursing, USU |
| 2007- 08 | Lynn Slepski | Preparedness of Emergency Health Care Providers during National Disasters | Member, Grad. Sch. Nursing, USU |
| 2006- 08 | Roberta Lavin | Morphometry and Ultrastructure of Skeletal Muscle Following Exposure to Weapons Grade Tungsten Alloy in F344 Rats | Chair, Grad. Sch. Nursing, USU |
| 2006- 08 | Lela Holden | An Analysis of Several Dimensions of Patient Safety in Ambulatory-Care Facilities | Member, Grad. Sch. Nursing, USU |
| 2005- 06 | Henrietta Hubbard | Newborn Screening for Genetic and Metabolic Disorders: Modeling Costs and Outcomes for Expanded Testing | Member, Grad. Sch. Nursing, USU |
| 2005- 07 | Lisa Latendresse | Predictors of Phantom Limb Pain in Combat Injured Casualties with Limb Amputation. | Member, Grad. Sch. Nursing, USU |
| 2005- 08 | Michele Kane | Gene Expression Analysis of the Genotoxic Potential of Weapons Grade Tungsten Alloy in F344 Rats. | Chair, Grad. Sch. Nursing, USU |
| 2005- 07 | Christine Engstrom | Altered temperature regulation during androgen blockade in prostate cancer | Chair, Grad. Sch. Nursing, USU |
| 2005- 07 | Nicole McPherson | Public Health Implications of the 1540 nm Laser on the Cornea | Member, Dept. Preventive Med. & Biometrics, USU |
| 2005- 06 | Richard Ricciardi | Impact of Body Armor on Physical Work Performance | Member, Grad. Sch. Nursing, USU |
| 1997- 03 | Tonya Andrade | The Pharmacogenetics of F-Cell Variation | Chair, Johns Hopkins Univ, Sch. of Nrsg. |
| 2003 | Wendy Blakely | Chronic Pain and Cytokines | Member, Johns Hopkins Univ, Sch. of Nrsg. |
| 2001 | Jean Gaines | Strength and Functional Ability in Elderly Women with Osteoarthritis of the Knee | Member, Johns Hopkins Univ, Sch. of Nrsg. |
| 2000 | Lisa M. Sacco | Maternal Perception of Infant Crying: Effects on Infant Feeding Choices in Mexico | Member, Johns Hopkins Univ., Sch. Public Hlth. |
| 2000 | Alexis Bakos | Perception of QOL in African-American Women with Breast Cancer | Member, Johns Hopkins Univ, Sch. of Nrsg. |
| 1999 | Norma Garrett | Effects of LY235959 on Surgery-Induced Immunosupression and Increased Metastasis in Rats | Member, Johns Hopkins Univ, Sch. of Nrsg. |
| 1996 | Barbara Bates-Jensen | Pressure Ulcer Management: Physiologic Aspects | Member, UCLA, School of Nursing |
| 1996 | Bernice Coleman | Antigens: An Indicator of Altered Cell Mediated Immunity, in Advanced Heart Failure | Member, UCLA, School of Nursing |
| 1996 | Judith Halle | Prevention of Hypoxic Brain Damage in the Newborn | Chair, UCLA, School of Nursing |
| 1995 | Andrew Jacobson | Function and Regulation of the Transfected Rat Striatal Dopamine D2 Receptor In The Mouse LtK-Fibroblast | Member UCLA, Dept. Pharmacology |
| 1993 | Ken Ono | Congruencies on Fourier Co-Efficients of Modular Forms on Go (N) with Number-theoretic Applications | Member, UCLA Dept. Mathematics |
| 1992 | Gayle G. Page | The Impact of Surgery on Natural Killer Cell Cytotoxicity & Tumor Metastasis in Rats | Chair, UCLA, School of Nursing |

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| **Master’s Thesis advisement** | | |  |
| **Year** | **Student** | **Title** | **Role** |
| 2009 | L. Galloway, J. Romeo, C. Jones, G. Phillips, R. Morris | The Effect of Malignent Hyperthermia on Satellite Cell Populations in Skeletal Muscle | Chair, USU, Grad. Sch. of Nursing |
| 2008 | M. D. Dixon, A. Dalgleish, B. Waters | Muscle Fiber Atrophy Associated with Neuropathic Pain | Chair, USU, Grad. Sch. of Nursing |
| 2005 | J. Nelson, A. Bivens, A. Shinn | Operating Room Telephone Microbial Flora | Member, USU, Grad. Sch. of Nursing |
| 2005 | James G. Fyffe | Corneal Injury to Ex-Vivo eyes exposed to a 3.8µm laser | Member, USU, Dept. Preventive Med. & Biometrics |
| 1997 | Lisa Marie Ianniello | A study of the relationship of Intracranial pressure and cerebral metabolism | Member, UCLA, School of Nursing |
| 1997 | Linda Plush | Calcium, Phosphorus, and Alkaline Phosphatase levels of uncomplicated head injury patients on roto-rest and low-air-loss beds during two weeks of bedrest | Member, Azusa-Pacific University, School of Nursing |
| 1992 | Mary Ann Shinnick | Improving the Quality and Quantity of Sleep in the Postoperative Cardiac Surgical Patient in the Intensive Care Unit | Member, UCLA, School of Nursing |
| 1992 | Barbara Bates-Jensen | Pressure Ulcer Management: Physical, Supportive and Local Aspects of Care | Member, UCLA, School of Nursing |
| 1992 | Kim Marie Schlessinger | Co-relational Study of Spinal Flexibility: Measurements and the Development of Back Injuries | Member, UCLA, School of Nursing |
| 1987 | Anthony O. Boxwell | Patterns of Maximal Force Generation in Atrophied Senescent Rat Soleus Muscle Fibers | Chair, Univ. of Wisconsin-Madison, School of Nursing |
| 1987 | Margaret M Sullivan | Effect of Denervation on Fiber Type and Force Generation | Chair, Univ. of Wisconsin-Madison, School of Nursing |
| 1986 | Susan Dickert | The Benefits and Hazards of On-Ventilator Suctioning in an Infant Animal Model Experiment | Chair, Univ. of Wisconsin-Madison, School of Nursing |
| 1985 | Marilyn S. Beagle | “The Effect of Pediatric Suction Catheter Size and Suction Pressure on Negative Pressure in Paralyzed Rabbits.” | Chair, Univ. of Wisconsin-Madison, School of Nursing |
| 1985 | Fou Chen | “Effect of Weight-Bearing Exercise on Hypokinesia-Induced Negative Calcium Balance.” | Chair, Univ. of Wisconsin-Madison, School of Nursing |
| 1985 | Mary Beth Higgins | “The Effect of Adapter Suctioning on Oxygenation and Airway Pressure.” | Chair, Univ. of Wisconsin-Madison, School of Nursing |
| 1985 | Pamela Ann McIntosh | A Controlled Animal Study on the Benefits and Hazards of Suctioning through an Adapter | Chair, University of Wisconsin-Madison, School of Nursing |
| 1985 | Ann McNulty | Tissue Atrophy & Subsequent Recovery, Pt. 2 | Chair, University of Wisconsin-Madison, School of Nursing |
| 1985 | Amy Otto | Disuse Atrophy & Subsequent Recovery, Pt. 1 | Chair, University of Wisconsin-Madison, School of Nursing |

**SCHOLARLY PROJECTS ADVISEMENT**

**JHU: 1997-2003**

Undergraduate students from minority and non- health sciences departments were mentored and collaborated on various research projects. Leadership Alliance Program (4 students), Undergraduates: Whiting School of Engineering – 6; Department of Biology – 3; Political Science– 1.

**UCLA: 1988- 1997**

Undergraduate students from minority and non- health sciences departments were mentored and collaborated on various research projects. Undergraduates (majors): Physiological Sciences – 8; Biology – 3; Neurophysiology – 1; Life Sciences – 2; Genetics – 1; Pre-Medical - 3.

**Consultations (Educational)2**

University of Texas Health Sciences Center, Galveston, TX. School of Nursing, Graduate Programs, 1993.

University of Texas Health Sciences Center, San Antonio, TX. School of Nursing, Doctoral Program, 1997

**SCHOLARLY PRESENTATIONS**

2014 University of Maryland-Baltimore, School of Nursing, Invited Seminar, “Metal Mediated Muscle Mayhem.” (March 18), Baltimore, MD.

University of South Florida, Distinguished Lecturer, College of Nursing, Invited Seminar, “Metal Mediated Muscle Mayhem.” (March 28), Tampa, FL.

Functional Characterization of *RYR1* Sequence Variants Associated with Malignant Hyperthermia Susceptibility Identified through Exome Sequencing, S. G. Gonsalves, **C. E. Kasper**, S. Perry, S. M. Muldoon, L. G. Biesecker. 64th American Society of Human Genetics Annual Meeting in San Diego, CA (October 18).

2013 University of Kentucky, School of Medicine, Department of Physiology, Invited Seminar, “Metal Mediated Muscle Mayhem.” (February 13), Lexington, KY.

The 5th International Conference on Medical Geology. Paper presented “Cellular Changes in Response to Embedded Fragments: Surveillance Using PET-CT,” (25-29 August), Arlington, VA.

The 10th World Congress on Neurohypophysial Hormones, Invited Paper, “Loss of Magnocellular Neuron Function in Sprague-Dawley Rats as a Result of Mild Blast Injury: Implications for Social Well Being?” Galloway, S. , Blokhin, A. and **Kasper, C. E.,** (July 13), Bristol, UK.

University of Tennessee-Memphis, Distinguished Visiting Professor, Invited Seminar, “Metals in Health Care and Behavior.” (August 7), Memphis, TN

2012 MNRS 2012 Annual Research Conference. Bardack, S. K., **Kasper, C. E.,** Kalinich, J. F., Dalgard, C. L. MNRS Symposium: The continuum of translation research in genomics: From genomics to health application, Techniques for Investigating Metal-Induced Genotoxic Changes Using Cell Cultures.   (April 12-15),  Dearborn, Michigan

MNRS 2012 Annual Research Conference. **Kasper, C. E.,** Nursing Research Opportunities at the Department of Veterans Affairs. (April 12-15),  Dearborn, Michigan

ISMRM 20th Annual Meeting. Hood, M. N., Song, T., Bedocs, P., Capacchione, J. F., **Kasper, C. E**., Haigney, M. C., and Ho, V. B. Myocardial T1 Mapping in Swine with Non-ischemic Heart Failure with Comparison to Changes in Specific Collagen Types. (May 7), Melbourne, Australia

USU Research Week, **Kasper, C. E**. Mild and Moderate Blast TBI in Rodents. (May 14) USU, Bethesda, MD

Gordon Research Conference, Muscle: Excitation / Contraction Coupling. Catecholamine Augmented RyR1 Ca2+ Release In Malignant Hyperthermia Sensitive Human B-lymphocytes. Perry, S., Muldoon, S.,Bunger, R., **Kasper, C. E**., (June 3-8, 2012), Les Diablerets Conference Center, Les Diablerets, Switzerland

CANS 2012 State of the Science Congress on Nursing Research Catecholamine Augmented RyR1 Ca2+ Release In Malignant Hyperthermia Sensitive Human B-lymphocytes. Perry, S., Muldoon, S., **Kasper, C.,** Bunger, R., Shafer, M. (September 13-15), Washington, D.C.

CANS 2012 State of the Science Congress on Nursing Research. Blokhin, A., Grunberg, N., Agoston, D. **Kasper, C. E.** Neurobehavioral Impairment is Prevented by Acute Minocycline Treatment in a Rodent Model of mild Blast Traumatic Brain Injury. (September 13-15), Washington, D.C.

Annual Meeting, American Society for Cell Biology, Effect of minocycline treatment: a dorsal and ventral hippocampus immunohistochemical analysis after traumatic brain injury of rats, Blokhin, A., Grunberg, N. E., Agoston, D. V., **Kasper, C. E**. (Dec. 16), San Francisco, CA

2011 ISMRM 19th Annual Meeting. Hood, H., Song, T., Bedocs, P., Capacchione,, J., Haigney, M., **Kasper, C. E**., Ho, V., Free-breathing T1 Mapping MRI for Quantification of Myocardial T1 Pre and Post Contrast in Swine with Non-ischemic Heart Failure.  (May 7-13), Montréal, Québec, Canada.

North American Society of Cardiovascular Imaging Annual Meeting, Baltimore, Maryland. Hood MN, Song T, Bedocs, P, Capacchione C, Haigney M, **Kasper C**, Ho VB. Free-breathing T1 Mapping MRI for Quantification of Myocardial T1 in Swine with Heart Failure. Best Cardiac MR Presentation Winner. (September 24-27) Baltimore, MD.

NIH NINR's 25th Anniversary Concluding Scientific Symposium. A.Blokhin., E. Kovesdi,  D. Agoston, **C.E. Kasper**, Extended Depth Focus imaging: a hippocampus immunohistochemical analysis in different environment conditions after traumatic brain injury of rats. Washington D.C. (October 13)

2010 Walter Reed Army Medical Center, *Invited Seminar*, Health Effects of Embedded Fragments. Washington, D.C. (May 25)

Smithsonian, National Museum of American History, *Invited Seminar*, From Knowledge to Wisdom: Reflections on 50 Years of the Information Age, (September 9) Washington D.C.

Navy Medicine Institute for the Medical Humanities and Research Leadership & Smithsonian Institution. Ethics, Societal Responsibility, and the Responsible Conduct of Researchers: *An Expert Panel Discussion* (September 28) Washington D.C.

Neuroscience 2010, 40th Annual Meeting, *Paper Presented*: Effect of enriched environment on the outcome of traumatic brain injury, (November 15) San Diego, CA.

2009 38th World Congress on Military Medicine, *Paper* P*resented*: Genotoxic and Cytotoxic Carcinogenesis Effects if Embedded Weapons Grade Fragments of Tungsten Alloy Shrapnel in C2C12 and L6 Muscle Cells, (October 4-9), Kuala Lumpur, Malaysia.

Americian Association of Nurse Anesthetists, 76th Annual Meeting, *Paper Presented,* Quantification of Regenerative Satellite Cells in a Malignant Hyperthermia Susceptible Porcine Model (August 12).

USU Research Week, Bethesda, MD. Gallaway, L., Morris, R., Romeo, J, Jones, C., Phillips, G., **Kasper, C.E**., Maye, J. Cruthirds, C., Larsen, M., *Paper Presented:* Quantification of Regenerative Skeletal Muscle Components in a Malignant Hyperthermia Susceptible Porcine Model: A Possible Link to Prolonged Muscle Weakness, (May 11).

Midwest Nursing Research Society, Annual Meeting, *Invited Presentation,* “Research Opportunities in the Department of Veteran’s Affairs.” Minneapolis, MN (March 20).

2008 Boston College, William F. Connell School of Nursing, PhD Collequia, *Invited seminar:* “Nursing Research from the Front Lines of Conflict.” (November 17).

Michael E. Debakey VAMedical Center, *Invited keynote* “The Advent of Genomic Medicine.” (September 29) Houston, TX.

11th Annual Force Health Protection Conference. *Paper presented*: Weapons Grade Tungsten Alloy as a Potential Cytotoxin and Genotoxin. Kane, M., Kasper, C.E., Biswas, R. and Kalinich, J. (9-16 August) Albuquerque, NM.

11th Annual Force Health Protection Conference. *Paper presented*: Lavin, R., Kane, M., Kalinich, J., **Kasper, C.E**. Shrapnel Injuries:  What Nurses Should Monitor Now and Long-term. (9-16 August) Albuquerque, NM.

11th Annual Force Health Protection Conference.   *Paper presented*: Lavin, R., Kane, M., Kalinich, J., **Kasper, C.E**. Histologic changes in Muscle of Rats Embedded with Tungsten Alloy. (9-16 August), Albuquerque, New Mexico

American Association of Nurse Anesthetists, Annual Meeting, *Paper Presented*. Dixon, M., Dalgleish, A. H., Bret A. Waters, B.A.; Maye, J.A., **Kasper, C.E.** "The Effect of Induced Neuropathic Pain on Skeletal Muscle," (August 9-13), Minneapolis, MN.

17th Annual 17th Annual USPHS Nursing Recognition Day, National Institutes of Health, *Invited Paper,* Doctoral Education in the Federal Sector*. (*May 2)Bethesda, MD.

Case-Western Reserve University, School of Nursing. *Invited Seminar,* Methods in Complex Adaptive Systems. (April 7)*,* Cleveland, OH.

AACN 2007 Doctoral Education Conference, *Invited Seminar*, Research Opportunities in the Dept. of Veterans Affairs. (January 26) Captiva, FL.

2007 18th International Nursing Research Congress Focusing on Evidence Based Practice, *Paper Presented*. Engstrom, C. A., **Kasper, C.E**., Monitoring of Men with Hot Flashes Following Androgen Ablation: A Trans-disciplinary Approach. (11-14 July) Vienna, Austria.

2006 CANS, *Paper Presented,* Promoting Expansion of VA Healthcare Facility Affiliations with Schools of Nursing, (November) Washington DC.

CANS, *Paper Presented,* Increasing VA Nursing Research Capacity: Allocation of Competitive Plot Funds, (November) Washington DC.

2005 Dept. of Neurology, Walter Reed Army Medical Center, *Invited Seminar* “Adaptation of Myonuclei to Atrophy and Aging,” (6 October), Washington, DC.

2004 AMSUS 2004/Karen Rieder Poster Session, “Altered Cytoskeletal Isoforms of Atrophic Skeletal Muscle Contribute to Injury during Rehabilitation”, Denver, CO.

2003 Southern Nursing Research Society, Annual Meeting, *Invited Symposium*, “Skeletal Muscle and Exercise during Recovery.” (February) Orlando, FL.

Orthopedic Research Association Annual Meeting, *Paper Presented*, “Arthritis-induced muscle dysfunction-atrophy, or more? Determination of bio-energetic reserve by in-vivo 31P NMR. (February), San Francisco, CA.

FASEB, Experimental Biology 2003, *Paper Presented*. “Skeletal Muscle Atrophy Induced by Hind-limb Unloading is Associated with Low Muscle IL-6.” (April), San Diego, CA.

ISMRM (International Society for Magnetic Resonance in Medicine) Scientific Meeting, *Paper presented,* Determination of Bioenergetic Reserve In Arthritis-Induced Muscle Dysfunction By In-Vivo 31p Nuclear Magnetic Resonance Spectroscopy, (May), Toronto, Canada.

University of Maryland, School of Nursing, *Invited Seminar.* “Osteoarthritis and Atrophy: Which comes first?” (May), Baltimore, MD.

NIH, NIA, *Seminar*, “Arthritis and Skeletal Muscle Malfunction: Is it more than atrophy?” (July) Baltimore, MD.

University of Alberta, *Invited Seminar*. “Uncovering the cause of skeletal muscle injury during rehabilitation*.”* (October), Edmonton, Alberta, Canada.

2002 American College of Sports Medicine, 49th Annual Meeting, *Invited Symposium*, Chair and Speaker. “Clinical Ethics in Sports Medicine.” (May 30), St. Louis, MO.

Cold Spring Harbor Laboratory. *Invited Speaker*, “Dynamic Organization of Nuclear Function, Nuclear Lamin Adaptation.” (September 18), Cold Spring Harbor, NY.

Sigma Theta Tau, State of the Science, *Symposium*. “Animal Models of Physical Activity and Exercise,” September 28. Washington, D.C.

NIH: Summer Student Seminars. Cytokines and Osteoarthritis. Bethesda, MD. October.

JHU, Whiting School of Engineering, Dept. of Materials Science*, Invited Seminar*, “Muscle As Material: Sources Of Failure”. October 23, Baltimore, MD.

American Society of Cell Biology, Annual Meeting. *Paper Presented*, “Serum Levels Are Poor Predictors Of Muscle Levels Of Interleukin IL-6,” December 15. San Francisco, CA.

1. NIH, CSR,“Myonuclei in Aging Muscle,” *Invited seminar.* March 19, Washington, D.C.

University of Göteborg, School of Medicine, Department of Orthopedics. *Departmental Seminar*. “The Role of Myonuclei in Recovery from Skeletal Muscle Atrophy,” and “Passive Stretch of Skeletal Muscle Following Stroke.” (July), Göteborg, Sweden.

University of Göteborg, School of Medicine, Dept. of Orthopedic Surgery and Muscle Physiology, Gothenburg, Sweden. *Invited seminar* “Nuclear Migration in Skeletal Muscle.” (August) Göteborg, Sweden.

1. Brazil, *Invited Keynote*, 50th Anniversary of School of Nursing, Universidad Féderal Pernambuco, “State of the Science in Nursing Research.” (September) Recifé, Brazil.

American Academy of Nursing, *Invited paper*, “Integrating Basic Genetics Technologies in Nursing.” (November), San Diego, CA*.*

University of Göteborg, Rehabilitation Hospital, Sweden. *. Invited paper* “Transfer Technique following Stroke.” (July), Göteborg, Sweden.

1999 Pennsylvania State University, Eighteenth Annual Nursing Speaker’s Day, Sponsored by the Department of Nursing and Lambda Tau Chapter of Sigma Theta Tau International. “Recovery from Muscle Atrophy” A Program of Research,” (April 15) Slippery Rock, PA.

American College of Sports Medicine, 46th Annual Meeting, *Invited Symposium*, “Molecular Mechanisms of Aging”. (June 2-5*),* Seattle, WA.

1998 George Mason University, School of Nursing, *Invited speaker*, “Adaptation of the Skeletal Muscle Cell During Atrophy.” (March 28), Fairfax, VA.

Johns Hopkins University & University of Maryland Schools of Nursing, (May 15) 9th Annual Research Day, “ Changing Face of Nursing Research”, *Invited speaker*, “ New Criteria for NIH Review.”

6th Annual Congress on Women’s Health: From Bench to Bedside (June 21), *Paper presented.* Washington D.C., “Physical Conditioning after Injury.”

1997 Biophysical Society, New Orleans, LA. Mar. 5, *Paper presented.* “Altered Nuclear Control Domains In Aging Skeletal Muscle.”

Society for Gynecologic Investigation, *Paper presented.* “Neonatal hypoxic ischemic neuroprotection by the adenosine A1 receptor binding enhancer PD 81, 273,” (March 21), San Diego, CA.

University of Texas, San Antonio, Health Science Center, School of Nursing, Nursing Science Colloquium, Invited Keynote Speaker, “Adaptation of Nuclear Control Domains in Skeletal Muscle,” (April 21), San Antonio, TX.

Western Institute of Nursing, 30th Annual Communicating Nursing Research Conference, *Invited State of the Science Presentation*, “Advances in Physiologic Fatigue and Atrophy,” (May 3), Portland, OR.

Gordon Research Conference, Muscle: Excitation/Contraction Coupling. *Paper Presented*, “Calcium Signaling In Skeletal Muscle Nuclei,” (June 12), Colby-Sawyer College, NH,

Johns Hopkins University School of Nursing, *Invited speaker* “Clinical Effects of Skeletal Muscle Atrophy,” (December 2), Baltimore, MD.

1996 Biophysical Society, Annual Meeting, *Paper Presented*. “A Role for Kinesin in Developing Soleus Muscle Fibers in the Rat.” Feb. 18-22, Baltimore, MD.

American College of Sports Medicine, Annual Meeting, *Symposium*: “Professional Conduct and Financial Interests,” (May 29- June 1), Cincinnati, OH.

American College of Sports Medicine, Annual Meeting, *Paper presented*: “Cytoplasmic Volume-To-Myonucleus Ratios In Developing Rat Soleus And Plantaris Fibers.” (May 29- June 1), Cincinnati, OH.

NIH, NINR, *Invited seminar*: “The Role Of Myonuclei And Molecular Motors In The Development Of Skeletal Muscle,” (Sept. 6), Bethesda, MD.

2nd Annual Fetal Research Meeting, University of California, San Diego, “Neonatal Hypoxic-Ischemic Neuroprotection By The Adenosine A1 Receptor Binding Enhancer PD 81,273,” (October 11) La Jolla, CA.

Johns Hopkins University, Nov. 12, Invited *seminar*. “Nuclear Control Of Skeletal Muscle Development,” Baltimore, MD.

1995 American College of Sports Medicine, Annual Meeting, *Paper Presented*: “Cytoplasm-To-Myonucleus Ratios in Atrophic Skeletal Muscle.” May 31-June 4, Minneapolis, MN.

1994 Second National Multi-specialty Conference on Urinary Continence, *Paper presented*: “Pelvic muscle profile types in response to pelvic muscle exercise.” January 21, Phoenix, AZ.

1986 Biophysical Society Meetings,. *Paper presented*: “Effects of decreased muscle activity on the velocity of shortening and myosin isozyme composition of single fibers from mammalian fast and slow muscles,” February 8-13, San Francisco, CA

American College of Sports Medicine, National Meetings, *Paper presented*: “Use of the Inverted Cage Suspension (ISC) Model to Induce Skeletal Muscle Atrophy,” Indianapolis, IN.

American College of Sports Medicine, National Meetings, *Paper presented*  “Effects of the recovery mode on soleus muscle composition following hypokinesia,” (May 18-20), Indianapolis, IN.

Marquette University, and Sigma Theta Tau. *Invited research colloquium*. “Clinical Implications for Skeletal Muscle Atrophy,” (October 10), Milwaukee, WI.

Wisconsin Nurses’ Association Clinical Sessions. *Paper presented*: “Use of the Inverted Cage Suspension Model (ISC) to Induce Skeletal Muscle Atrophy,” (October 16), Milwaukee, WI.

Wisconsin Nurses’ Association Clinical Sessions. *Paper presented*: “Effects of the Recovery Mode on Soleus Muscle Composition Following Hypokinesia,” (October 16), Milwaukee, WI.

1985 Biophysical Society, Annual Meeting*. Paper presented*: “CI- Stimulation of Ca Release in Disrupted Cardiac Cells via Ionic Depolarization of Plasma Membrane Fragments,” (February 26), Baltimore, MD.

University of Wisconsin-Madison, Department of Physiology, *Invited seminar*: “The Effects of Hypokinesia on Mammalian Skeletal Muscle,” April 30, Madison, WI.

University of Minnesota, School of Nursing, *Invited seminar*: “Research Program Development in Nursing,” May 17, Minneapolis, MN.

1984 University of Maryland at Baltimore, College of Nursing. *Paper presented*: “Recovery of Skeletal Muscle from Atrophy,” January 10, Baltimore, MD .

Biophysical Society,. *Paper presented*: “Uniform Sarcomere Lengths in Mammalian Peeled Muscle Fibers,” February 22, San Antonio, TX.

University of Wisconsin-Milwaukee, School of Nursing. *Paper presented*: “Avoidance of Post-Atrophy Injury,” March 19, Milwaukee, WI.

University of Wisconsin-Madison, School of Nursing. *Paper presented*: “Injury Potential During Post- Hypokinetic Recovery,” March 29, Madison, WI.

University of Illinois, College of Nursing. *Paper presented*: “Hypokinesia and the Recovery of Skeletal Muscle,” April 10, Chicago, IL.

University of Pennsylvania, School of Nursing. *Paper presented*: “Recovery of Skeletal Muscle: Injury Potential,” April 11, Philadelphia, PA.

Brigham Young University, School of Nursing. *Paper presented* “Post-Exercise Skeletal Muscle Injury,” April 14, Provo, UT.

University of Wisconsin-Madison, Madison, WI. *Invited seminar*. Department of Physical Education and Biodynamics. “The Effects of Conditioning Following Decreased Skeletal Muscle Activity,” November. .

1983 FASEB Meeting, *Paper presented*: “Influence of Exercise on the Recovery of Skeletal Muscle from Hypokinesia,” April 11-15, Chicago, IL.

Illinois Nurses’ Association Research Sessions. *Paper presented*: “Influence of Exercise on the Recovery of Skeletal Muscle from Hypokinesia,” October, Chicago, IL.

Rush University, The Fifth Annual Surgical Nursing Symposium, “Focus on Nursing Assessment: The Surgical Patient.” *Paper presented*: “The Effects of Immobility on Fluid and Electrolyte Balance,” November 15-16, Chicago, IL.

1982 Rush Nursing Research Colloquium, Rush College of Nursing, *Paper presented*: “Adaptation of Rat Skeletal Muscle to Hypokinesia,” March, Chicago, IL.

American Physiological Society, Fall Meetings, *Paper presented*: “Adaptation of Rat Skeletal Muscle to Hypokinesia,” September, San Diego, CA.

1981 Research Symposium. University of Michigan. Graduate Program’s and Sigma Theta Tau, *Paper presented*: “Influence of Physical Conditioning on the Recovery of Skeletal Muscle from Temporary Hypokinesia: The Hypokinesia Model,” April 22-25, Ann Arbor, MI.

University of Michigan, Continuing Education, *Seminar* presented with Dr. Pat Butler: “Eyes of March – Physical Assessment of the Eye and Emergency Care of Eye Injuries,” March 22, Lansing, Michigan.

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| **ADMINISTRATIVE SERVICE (Policy, budgets, personnel etc.)** | |
| **USU / Dept. of Veterans Affairs** | |
| 2011- 13 USU Middle States Commission on Higher Education, Re-accreditation of University, Member University Steering Committee.  2010- 12 VHA, Evidence Based Practice Goal Group, National Nursing EBP committee reporting to the National Nursing Executive Committee, policy, strategic planning, and EBP recommendations to National Nursing Executive Committee (EBP).  2009 – 13 HJF Board of Academic Councilors, The Henry M. Jackson Foundation for the Advancement of Military Medicine, Inc.  2009 USU President’s Working Group on Faculty Appointments and Promotions (revision of the USU Instruction 1100 document, academic promotions and tenure) | |
| 2007- Present National Genetics/Genomics Goal Group, VA Office of Nursing Services (establish strategic plan and strategies to nationally incorporate genetics/genomics into nursing care services as well as strategies to provide educational training in genetics to VA nurses system wide) | |
| 2007-12 Nursing Research Advisory Group (NRAG), National nursing research committee reporting to National Nursing Executive Committee, policy, strategic planning, and research recommendations to NNEC. | |
| 2007 USU Research Week, Organizing Committee | |
| 2005-08 Chair, Faculty Welfare and Compensation Committee: School of Medicine Compensation and Welfare Report (Research and analysis of all academic compensation for the university on behalf of the University Faculty Senate) | |
| 2006 USU Merit Review Committee  2006-2013 USU Committee on Academic Promotions and Tenure  2006-09 Dept. of Veterans Affairs, Office of Nursing Services, Nursing Research Advisory Group: Advisory to National Nursing Executive Committee on issues of policy, conduct, implementation of nursing research in the VA system.  2005-06 Dept. of Veterans Affairs, Office of Nursing Services, University Affiliation Agreement Leadership Team (policy, guidelines, requests for proposals for academic affiliations of universities with VA Medical Centers and other facilities)  2006 USU Co-Chair Research Week  2005- 08 Chair, Faculty Welfare and Compensation Committee, USU  2005-08 University Faculty Senate, Member  2004-Present Dept. of Veterans Affairs Central Office, Office of Chief of Nursing Services (policy, strategic planning, implementation of national strategic plans)  2004-09 USU Faculty Senate Research Committee  2003-05 Faye Abdellah Nursing Research Center, Leadership Team | |
| **Johns Hopkins University School of Nursing** | |
| **Year(s)** | **Committee: (year of service, indicate if office membership)** |
| 2001- 03 | PhD Curriculum Committee |
| 2000- 03 | DNSc. Admissions Committee |
| 1999- 00 | Chair, Ph.D. Curriculum Committee |
| 1998- 00 | Ph.D. Admissions Committee |
| 1997- 99 | Appointments, Promotions and Tenure Committee |
| 1997- 99 | Core Competencies Committee, Doctoral Program |
| 1998- 03 | Health Promotion and Disease Prevention Council |
| 1995 | International and Extramural Academic Program Committee |
| 1998- 99 | International & Extramural Academic Program: Certification Program Committee |
| 1998- 99 | Certification Program Committee |
| 1998- 01 | Doctoral Program Comprehensive Exam Review Sub-Committee |
| 1998- 99 | Gerontology Council, Member |
| 1998- 99 | Genetics Committee |
| **Johns Hopkins University** | |
| 2000- 02 | **General Accounting Systems**, BASIS Workgroup (University Wide reconstruction of computer accounting systems) |
| 1998- 02 | **Leadership Alliance Consortium**, SON Representative (Nat’l Minority Research Program) |
| 1998- 00 | **JHU Graduate Board**, SON Representative (University wide policy, policy enforcement, administration of PhD curriculum, legal, signature authority and awarding of academic degrees for University) |
| 1997- 99 | **Applied Physics Lab (APL):** Sabbatical Fellows and Professors Professional Committee |

| **University of California, Los Angeles** | |
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| 1996- 97 | University of California, Statewide Academic Assembly (UC System – 9 universities);  Comm. on Academic Personnel and Merit;  Member Subcommittee of Comm. on Academic Personnel and Merit;  Member Graduate Programs Committee-Doctoral Program;  Subcommittee Student Affairs Committee; |
| 1995-1996 | University of California, Statewide Academic Assembly (UC System)  Member, Subcommittee of Comm. on Academic Personnel and Merit, |
| 1994-1995 | Subcommittee of Comm. on Academic Personnel and Merit, Member  Faculty Research Committee |
| 1993-1994 | Faulty Executive Committee;  Subcommittee of Comm. on Academic Personnel and Merit, Member  Faculty Compensation Sub-Committee; Ph.D. Program Sub-Committee |
| 1992-1993 | Faculty Executive Committee;  Subcommittee of Comm. on Academic Personnel and Merit, Member  Faculty Compensation Sub-Committee; Ph.D. Program Sub-Committee |
| 1991-1992 | Faculty Executive Committee;  Subcommittee of Comm. on Academic Personnel and Merit, Member  Faculty Compensation Sub-Committee; Ph.D. Program Sub-Committee |
| 1990-1991 | Grievance Committee  Faculty Compensation Sub-Committee  Subcommittee of Comm. on Academic Personnel & Merit, Member |
| 1989-1990 | Admissions Committee  Doctoral Program Subcommittee  Instructional Resources Subcommittee  Faculty Compensation Sub-committee  Subcommittee of Comm. on Academic Personnel and Merit, Member |
| 1988-1989 | Admissions Committee  Doctoral Program Subcommittee  Subcommittee of Comm. on Academic Personnel and Merit, Member |

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| **University of Wisconsin** | |
| 1986-1988 | Animal Research Care Committee (IACUC) – (administration and enforcement of Federal and State Policy on animal research, approval of protocols)  NIH-Minority Research Apprentice Program |
| School of Nursing | |
| 1987-1988 | Academic Resources Committee  Graduate Program Committee  RN Portfolio Review Committee  Faculty Senate-Alternate |
| 1986 | Academic Resources Committee  Graduate Program Committee  Pathophysiology Sub-Committee  RN Portfolio Review Committee  Research Curriculum Sub-Committee |
| 1985 | Academic Resources Committee  Graduate Program Committee  Memorial Resolution Sub-Committee  Pathophysiology Sub-Committee  RN Portfolio Review Committee  Research Curriculum Sub-Committee |
| 1984 | Undergraduate Program Committee  100-200 Level Course Subcommittee  RN Portfolio Review Committee |

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| **PROFESSIONAL AND COMMUNITY SERVICE** | | |
| Community Organizations/Committee (Professional Representation) | | |
| **Years** | **Role** | **Committee/Organization** |

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| 2013-14 | Member | American Psychological Association (APA), National  Electronic Resources Advisory Committee (ERAC) |

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| 2001- 10 | Charter Member | State of Maryland, Governor’s Board of Spinal Cord Injury Research – Administers the MD State legislative call and budget allocations for research related to Spinal Cord Injury |
| 2001-03 | Chair, By-Laws Committee | Sigma Theta Tau, JHU Chapter |
| 2000-05 | Member | Health for Humanity International, Allied Professions Committee |
| 2000- 07 | Charter Member | Researchers Against Sedentary Diseases (SeDs) |
| 1994- 97 | Member | American College of Sports Medicine, National Committee on Ethics & Professional Conduct |

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| 1998- 03 | Chair | American College of Sports Medicine, National Committee on Ethics and Professional Conduct |
| 1991- 97 | Executive Board | National Women’s Political Caucus, San Fernando Valley Chapter |
| 1995- 97 | Treasurer | National Association of Investment Clubs (NAIC), VIP Chapter |
| 1996- 97 | Board Member | Los Angeles Baha’i Medical and Health Services |

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| 1993 | | Session Chair | | | | | | American College of Sports Medicine, Annual Meeting, Session, Chair Cellular Physiology & Skeletal Muscle | | | | | | |
| 1990- 94 | | Committee Chair | | | | | | American Society for Gravitational and Space Biology, Long Range Planning Committee | | | | | | |
| **EDUCATION ACTIVITIES: Courses taught** | | | | | | | | | | | | | | |
| **Uniformed Services University of the Health Sciences (USU)** | | | | | | | |  | | | |  | | |
| **Years** | | | | **Number** | | **Name of Course** | | **Level** | | | | **Role** | | |
| 2003-06, 2008-10, 2012 -14 | | | | 81103 | | Philosophy of Science & Theory Devel. | | Ph.D. | | | | Prof. | | |
| 2003 | | | | 51122 | | Theoretical Foundations for Military and Federal Health Research | | MSN | | | | Faculty | | |
| 2003-10 | | | |  | | Independent Studies | | Ph.D. | | | | Prof. | | |
| 2004 | | | | 51132 | | Statistical Measures and Analytic Methods to Build Evidence for Military and Federal Health Care/Practice | | MSN | | | | Faculty | | |
| 2004 | | | | 81104 | | Nursing Science Specific to Federal Health and Military Nursing Seminar | | Ph.D. | | | | Faculty | | |
| 2004-10, 2013 | | | | 81112 | | Professional Issues in Scholarship | | Ph.D. | | | | Prof. | | |
| 2005-14 | | | | 90303 | | Dissertation Seminar | | Ph.D. | | | | Prof | | |
| 2005-06 | | | | 83303 | | Adaptive Complex Systems | | Ph.D. | | | | Prof. | | |
| 2005 | | | | 82303B | | Thermal Physiology | | Ph.D. | | | | Prof. | | |
| 2005 | | | | 82303B | | Biochemistry | | Ph.D. | | | | Faculty | | |
| 2005 | | | |  | | Rat Histopathology and Use in Research | | Ph.D. | | | | Prof. | | |
| 2005 | | | |  | | Male Reproductive Physiology in Prostate Cancer | | Ph.D. | | | | Prof. | | |
| 2006 | | | |  | | Administrative Nursing Practicum | | Ph.D. | | | | Faculty | | |
| 2006 | | | |  | | Intro. To Computational Modeling | | Ph.D. | | | | Prof. | | |
| 2006 | | | |  | | Computational Modeling II | | Ph.D. | | | | Prof. | | |
| 2007 | | | |  | | Computational Modeling III | | Ph.D. | | | | Prof. | | |
| 2007 | | | |  | | Computational Modeling IV | | Ph.D. | | | | Prof. | | |
| 2006 | | | |  | | The Utility of Animal Models for Obesity Research | | Ph.D. | | | | Prof. | | |
| 2007 | | | |  | | Exercise Physiology | | Ph.D. | | | | Prof. | | |
| 2006 -13 | | | |  | | Dissertation | | Ph.D. | | | | Prof. | | |
| 2007-08 | | | |  | | Laboratory Methods Practicum | | Ph.D. | | | | Prof. | | |
| **Course Development** | | | | | | | | | | | | | | |
| 2005 | | | | | | Dissertation Seminar | | Ph.D. | | | |  | | |
| 2004 | | | | | | Professional Issues in Scholarship | | Ph.D. | | | |  | | |
| 2004 | | | | | | Adaptive Complex Systems | | Ph.D. | | | |  | | |
| 2006 | | | | | | Computational Modeling 1-IV | | Ph.D. | | | |  | | |
| **Johns Hopkins University** | | | | | | | |  | | | |  | | |
| **Years** | | | | **Number** | | **Name of Course** | | **Level** | | | | **Role** | | |
| 1997 | | | | 100.800 | | Philosophy Perspectives in Health | | Ph.D. | | | | Lectures | | |
| 1997-98 | | | | 100.802 | | Scientific Perspectives in Nursing II | | Ph.D. | | | | Lectures | | |
| 1998 | | | | 100.898 | | Independent Study: NMDA Receptors | | Ph.D. | | | | Prof. | | |
| 1998-99 | | | | 100.801 | | Scientific Perspectives in Nursing I | | Ph.D. | | | | Lectures | | |
| 1998-03 | | | | 100.499 | | Skeletal Muscle Research | | BSN | | | | Prof. | | |
| 1998-99, 2001 | | | | 100.813 | | Physiologic & Biologic Nursing Research I | | Ph.D. | | | | Prof. | | |
| 1998-99 | | | | 100.890 | | Dissertation Seminar | | Ph.D. | | | | Prof. | | |
| 1998-99 | | | |  | | Doctoral Forum | | Ph.D. | | | | Prof. | | |
| 1999 | | | | 100.309 | | Research Process in Nursing | | BSN | | | | Lecture | | |
| 1998- 03 | | | |  | | Int’l Dimensions,  University of Göteborg, Sweden | | BSN | | | | Prof. | | |
| 1999- 02 | | | | 100.604 | | Patient Care Management | | MSN | | | | Lecture | | |
| 2000-03 | | | | 100.899 | | Dissertation Research | | Ph.D. | | | | Prof. | | |
| 2000 | | | |  | | Discipline & Science of Nursing; Parameters /Determinants of Human Health | | DNSc | | | | Co-Prof. | | |
| **Course Development:** | | | | | | | | | | | | | | |
| 1998 | | | |  | | Physiologic & Biologic Nursing Research I | | Ph.D. | | | | Prof. | | |
| 1999 | | | |  | | Dissertation Defense Policy & Procedures | | Ph.D. | | | | Prof. | | |
| **University of California, Los Angeles** | | | | | | | | | | | | | | |
| 1988-89 | | | N423A/B/C | | | Clinical Medical Surgical Nursing | | | | | Grad | | Team | |
| 1989-94 | | | N209B | | | Human Responses to Illness | | | | | Grad. | | Prof. | |
| 1989-96 | | | N105 | | | Human Physiology | | | | | Undergrad | | Prof. | |
| 1990 | | | N227 | | | Nursing’s Role in the Health-Illness Cont. | | | | | Grad | | Prof | |
| 1990-97 | | | N199 | | | Independent Study | | | | | Undergrad | | Prof. | |
| 1991-95 | | | N597/599 | | | Research Dissertation | | | | | Ph.D. | | Prof. | |
| 1992 | | | N216 | | | Critical Care Nursing & Program Curriculum Development | | | | | Grad. | | Coord. | |
| 1993-96 | | | N596 | | | Directed individual study & research | | | | | Ph.D. | | Prof. | |
| 1994 | | | N204 | | | Nursing Research | | | | | Grad | | Team | |
| 1994-95 | | | N423 | | | Critical Care Nursing & Program Curriculum Development | | | | | Grad | | Team | |
| 1994-97 | | | N299A | | | Ethics | | | | | Ph.D. | | Prof. | |
| 1995-97 | | | N230 | | | Human Physiology & Program Curriculum Development | | | | | Grad | | Prof. | |
| 1996-97 | | | N231 | | | Cell Physiology & Program Curriculum Development | | | | | Grad | | Prof. | |
| **University of Wisconsin- Madison** | | | | | | | | | | | | | | | |
| 1984-86 | | N101 | | | Introduction to Nursing | | | | Undergrad. | | | | Prof. | | |
| 1984-86 | | N102 | | | Nursing as a Process | | | | Undergrad | | | | Team | | |
| 1985 | | N775 | | | Biological Factors Influencing Patient Mobility | | | | Grad | | | | Prof. | | |
| 1985-86 | | N790 | | | Master’s Thesis | | | | Grad | | | | Prof. | | |
| 1985-86 | | N799 | | | Independent Study | | | | | Grad | | | Prof. | | |
| 1985 | | N747 | | | Clinical Practicum - Functional Area | | | | | Grad | | | Prof. | | |
| 1986-88 | | N699 | | | Independent Study | | | | | Grad | | | Prof. | | |
| 1986-88 | | N811 | | | Physiological Basis of Nursing Practice | | | | | Grad | | | Prof. | | |
| 1987-88 | | N301 | | | Health History & Patient Assessment | | | | | Undergrad | | | Team | | |
| 1987-88 | | N590 | | | Contemporary Practices in Nursing | | | | | Grad | | | Prof. | | |
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