


Curriculum Vitae

<p>Gary R. Walker, Ph.D. Professor, Departmental Chairperson Dept. Biological Sciences Molecular Biology and Microbiology Division Youngstown State University Youngtown, OH 44555</p>	
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635 Maplewood Ave
Struthers, OH 44471
(330) 755-4787 or (330) 503-1061

Birthdate: October 3, 1954
Birthplace: Denver, Colorado

Office address and phone:
Room 3040 Ward Beecher Hall
(330) 941-7177
FAX(216)
E-mail; grwalker@cc.ysu.edu
URL: people.ysu.edu/~grwalker

Higher Education

- Ph.D. from Wayne State University, Dept. Biology, Detroit, MI, 1984 (Cell Biology)
- B.A. from the University of Colorado, Dept. of Molecular, Cellular, Developmental Biology, Boulder, CO, 1977.

Current Professional Positions

- Chairperson, Department of Biological Sciences, (January 1, 2011- present)
- Professor, August, 2008 to present, Dept. Biological Sciences Youngstown State University.
- Regular Graduate Faculty, College of Graduate Studies, Youngstown State University. August, 1996 to present
- Associate Graduate Faculty Member, Graduate Program in Biomedical Sciences, Neuroscience, *Kent State University School of Biomedical Sciences*. (August, 2000 to present no compensation)

Past Professional Positions

- Interim Chair, Department of Biological Sciences, (July 1, 2009- January 1, 2011)
- Associate Professor, August, 2000 to 2008, Dept. Biological Sciences Youngstown State University.
- Assistant Professor, Sept. 15, 1995 to 2000, Dept. Biological Sciences Youngstown State University.
- Research Associate, Sept. 1, 1990 to 1995, Dept. Biological Sciences University of Pittsburgh (Dr. D.R.Burgess).

- Research Associate, April 1, 1988 to Sept. 1, 1990, Dept. Cell Biology and Anatomy, University of Miami School of Medicine (Dr. D.R.Burgess).
- Research Associate, Sept. 1, 1984 to March 31, 1988, Dept. Cell Biology and Anatomy, University of Miami School of Medicine (Dr. Lilly Y.W. Bourguignon).
- Graduate. Research Assist., Jan.1981 to Sept. 1984, Wayne State University.
- Graduate Teaching Assistant, Jan. 1979 to Jan. 1981, Wayne State University

Collaborators and Other Affiliations

i. Research Collaborators Recent:

- Dr. Kari Church, Ohio State University
- Dr. Robert Leipheimer,
- Dr. Chet Cooper, Youngstown State University
- Dr. Christine Weingart, Denison University
- Dr. Carl Ansevin (Neurologist in practice, Adjunct Professor YSU)

ii. Graduate and Post-Doctoral Advisors

- Dr. John D. Taylor, Professor Emeritus, Department of Biological Sciences, Wayne State University, Detroit, MI. , Phone (313) 577-2877.
- Dr. T. T. Tchen, (Deceased)
- Dr. Lilly Bourguignon, Professor, Departments of Medicine University of California at San Francisco, 4150 Clement St., San Francisco, CA. 94121. Phone (415) 750-2089
- Dr. David Burgess, Professor, Department of Biology, Boston College, T-360 Higgins Hall, 140 Commonwealth Ave., Chestnut Hill, MA. 02467, Phone (617) 522-1606

Awards Honors

- ⇒ **Undergraduate Professor Award** from NEOUMED/YSU BS/MD (MD class of 2013)
- ⇒ **Undergraduate Teaching Award** from NEOUMED/YSU BS/MD (MD class of 2012)
- ⇒ **Phi Kappa Phi**- Academic Honorary Society (2008)
- ⇒ **Dean's Award 2004 (Dean of Graduate Studies and Research)**- Successful Inter-Departmental Collaboration In Obtaining External Funding (2004)
- ⇒ **Master Teacher. 2000** (Youngstown State University)
- ⇒ **Research Professorship 2001-2002** (Youngstown State University)
- ⇒ Membership in **Project Kaleidoscope's Faculty for the 21st Century** 1999-present
- ⇒ Inclusion in **Who's Who in Among America's Teacher** 1998

Society Memberships

- ⇒ **American Society for Cell Biology** (1985- present)
- ⇒ Ohio Branch of the American Society for Microbiology (2003-present)
- ⇒ -Northeast Ohio Chapter of the Microscopy Society (1998-present)
- ⇒ -American Association for the Advancement of Science (1982-2002)

Scholarship

Research Funding Received or Applied For as PI or Co-PI

- **NSF-UBM Group, RUI: Mathematical Biology and Undergraduate Research (2011)**
G. Yates (P.I.), J. Caguiat (co-P.I.), J. Jalics (co-P.I.), **G. Walker** (co-P.I.), and **M. Womble** (co-P.I.), , \$240,000 requested (not funded).
- **NETL-DOE Advanced Automotive Fuels Research, Development, & Commercialization Cluster (OH) -Task 3C butanol fermentation, PI Gary Walker, Funded Fall 2010, \$175,165** (Cluster Directory, Dr. Clovis Linkus).
- **MRI-R2: Acquisition of a Chemical Biology Instrumentation Cluster 2009,**
Chester R Cooper PI, Co-PIs Ganesaratnam K Balendiran , Peter Norris, Yogendra Panta, Gary Walker, (NSF 09-561 \$512,586, not funded)
- **Muscular Dystrophy Association (Research Grant, 2008),** P.I. Gary R. Walker, Immunoproteome of myasthenia gravis, (36 months, \$175,733 not funded).
- **NSF (CCLI-Exploratory), Mechanical Properties of Biological Tissue: Integration into Undergraduate Biology and Engineering Curricula (2008).** . PI Hazel Marie, Co-PIs Guang-Hwa A Chang, Gary J. Kerns and Gary R. Walker, Submitted 05/21/08 (**36 months \$149,592 Funded NSF# 0837615**).
- **NSF (CCLI-Exploratory), Integrating Mechanical Testing of Biological Tissue into Undergraduate Biology and Engineering Curricula (2007).** PI Hazel Marie, Co-PIs Guang-Hwa A Chang, Gary J. Kerns and Gary R. Walker, Submitted 05/09/07 (36 months \$149,134 not funded).
- **University Research Council Grant 2007-2008 Walker, G. Analysis Skeletal Muscle Stem Cell Phosphopeptides by MS Spectroscopy., Awarded \$5,000**
- **URC Grant Gary Walker and Thomas Kim, "Analysis of *P. marneffeii* Secretome"**
Submitted March, 2005 \$8,128.00. (**\$4,453 awarded April 29, 2005**)
- **NSF (MRI) Acquisition of an Analytical Proteomics System.** PI Chester Cooper, Co-PI Gary Walker, Daryl Mincey and Thomas Kim, submitted Jan 22, 2005, \$738,792 (Not Awarded)
- **URC Grant Scott Martin, Gary Walker and Lauren Schroeder, "Factors Limiting the Odor Causing Algae, *Synura petersenii*"** Submitted March 31, 2004 \$5742.00. (**\$3,900 awarded April 24, 2004**)
- **NSF (MRI) Acquisition of an Analytical Proteomics System.** PI Chester Cooper, Co-PI Gary Walker, Daryl Mincey and Thomas Kim, submitted Jan 22, 2004, \$589,400 (Not Funded)
- **LI-COR Biosciences Undergraduate Training Award.** PI Gary R. Walker, Co-PI C.R. Cooper and Thomas Kim, submitted April 16, \$45,000 (Not awarded).
- **NSF (C-RUI) Proteomic Profiling of DIMORPHISM IN *PENICILLIUM MARNEFFEII* ,** PI Chester Cooper, Co-PI Gary Walker and Thomas Kim, submitted March 12, 2003, **\$402,323 (Funded with revised budget of \$697,000, NSF# 0330883)**
- **PACER Grant, " Northeastern Ohio Center for Proteomics"** Youngstown State University,, **\$86,790 requested from Pacer** for 2003-2006 academic year. (**Partially Funded at \$35,000**) PI Gary R. Walker, Co-PIs Chet Cooper and Thomas Kim.

- **University Research Council Grant**, Youngstown State University,, **\$14,000 Awarded** for 2002-2003 academic year. (joint submission with Chet Cooper and Thomas Kim).
- **RUI-MRI** Acquisition of Equipment for a Microscopy/Histology Core Facility for Research and Research Training, PI Eric Mintz, Co-PIs Gary Walker, Diana Fagan, Chester Cooper. (Not Funded)
- **Muscular Dystrophy Association** grant application, submitted July 15, 2001, PI Gary R. Walker, ***Localization of Protein Antigens Associated with Rippling Muscles and Myasthenia Gravis***, \$43,016 (Not Funded).
- **NSF (RUI) 00-144** grant application, submitted July 10, 2001, PI Gary R. Walker, *Cloning and Characterization of Punctate Mechanosensitive Ca⁺⁺ Channels in Skeletal Muscle*, \$166,930. (Not funded)
- **Research Grant Application, St. Elizabeth Health Center**, co-investigator with Dr. Carl Ansevin, MD. (**\$19,000**), (**Awarded 2000-2001**)
- **-Matching fund from YSU of \$5,000 (Awarded)**
- **-University Research Council Grant**, *Characterization of Skeletal Muscle Antibodies in Patients with Autoimmune Rippling Muscles and Myasthenia Gravis*, Youngstown State University,, **\$2,690 {URC#10-00} Awarded** for 2000-2001 academic year.
- **-Research Grant from St. Elizabeth Health Center**, co-investigator with Dr. Carl Ansevin, MD. (**\$10,000**) **Awarded** spring 1998.
- **-University Research Council Grant**, Youngstown State University, 5/97 , **\$2,000 {URC#1005} Awarded** for 1997-1998 academic year.
- **-University Research Council Grant**, Youngstown State University, 5/96 , \$3,900 Not funded
- **-American Heart Association, Florida Affiliate, Research Fellowship**, Period of **Award**; July 1, 1986 to July 1, 1987. **\$16,500**.

Other Grant Involvement

- **Center of Excellence Proposal (2009): CENTER FOR APPLIED CHEMICAL BIOLOGY**, Cooper, Walker, and Norris are the principals.
- **DBI- INTERDISC TRNG IN BIO & MATH, UBM-Group, RUI: Undergraduate Research Experience in Mathematical Biology. (2008)** PI George Yates, Co-PIs Jonathon Caguiat, Jozsi Jalics, Carl Sims and Mark Womble, Senior **Personnel:** Drs Kerns, Diggins, Cooper, Ge, Leipheimer **and Walker**
- **Howard Hughes Medical Research Grant** Fall 2007
- Listed as participant **NSF- IGERT (not funded)**.

Mentored Student Fellowships/ Grants

- Joseph Dikun OBOR Regents Graduate/ Professional Fellowship (2006)
- Joseph Dikun (undergraduate) "The effect of Rapamycin on the Phosphoproteome of *Penicillium marneffe*" **Undergraduate Student Research Grant**, YSU College of Graduate Studies and Research (2006-2007) \$500 awarded.

- Erin Treece (undergraduate) “Development of a pre-fractionation method for P. marneffeii proteomics” **Undergraduate Student Research Grant**, YSU College of Graduate Studies and Research (2004-2005) \$500 awarded.
- Thomas Watkins (Ph.D. student) 2002-2003 **University Fellowship**, Division of Research and Graduate Studies at Kent State University
- Thomas Watkins (Ph.D. student) **Sigma Xi Grants** in aid of Research Title: Identification of Autoantigens in Autoimmune Rippling Muscles associated with Myasthenia Gravis. Amount: \$744, Received: May 2002
- Thomas Watkins (Ph.D. student) 1999 and 2000 **Henry R. Viets Fellowships**, from the Myasthenia Gravis Foundation of America, Inc.

Invited Outside Lectureships

- Slippery Rock University “**Proteomic Analysis of Cells During Cell State Transitions**” September 28th 2007.
- Roundtable Discussion Panel Member, “**The Paths We Take and The Choices We Make**” University of Pittsburgh Dept of Biological Sciences 30th Anniversary September 15th 2007.
- Lecture on “**Immunology**” to surgical residents, St. Elizabeths’s Medical Center, April 26th, 2004; Nov. 30, 2006.
- Lectures on “**Cell Biology**” to surgical residents, St. Elizabeth's Medical Center, April 2001, April 24th, 2003, April 2006
- Discussion Panel Member, “**Thriving and Surviving in Graduate School and in the Academy**” Ohio Science and Engineering Alliance Conference, Akron, OH August 10-11th 2005.
- Lecture at St. John's Episcopal Church “**Stem Cell Research**” Spring 2003
- Texas Tech, Dept. (Job Applicant Seminar) Anatomy and Cell Biology, 1993.
- Proctor and Gamble (Job Applicant Seminar) , 1994.
- Ortho , Johnson and Johnson Corp., 1990
- Univ. South Florida, Dept. Biological Sciences, (Job Applicant Seminar) 1990
- Terumo Medical Corp., (Job Applicant Seminar) 1989
- Dept. Anatomy and Cell Biology, University of Miami, postdoctoral seminar, 1984

Additional Research Activities

- Conducted product testing for AMRESCO, summer 2007
- Conducted a Beta-Test for Pierce Chemical Company product, Spring 1996.
- Conducted a Beta-Test for Pierce Chemical Company product, Spring 1995

Publications: (20)

1. **L. Zelinka, S. McCann**, J. Budde, **S. Sethi, M. Guidos, R. Giles, G. R. Walker** Expression of the autoimmune rippling muscle disease immunogenic domain of human titin encoded by exons 248-249. Biochemical and Biophysical Research Communications, 411: 501-505 (2011).

2. **J M Chandler, Erin R. Treece, Heather M. Trenary, Jessica L. Brennehan, Tressa J. Flickner, Zaw M. Oo, Megan M. Patterson, William T. Rundle, Olga V. Valle**, Thomas D. Kim, **Gary R. Walker**, and Chester R. Cooper, Jr., Protein Profiling of the Dimorphic, Pathogenic Fungus, *Penicillium marneffeii*. *Proteome Science* 2008, 6:17doi:10.1186/1477-5956-6-1T.
3. **Watkins, L. Zelinka, M. Kesic, C. R.**, Ansevin and **G. R. Walker**, Identification of skeletal muscle autoantigens by expression library screening using sera from autoimmune rippling muscle disease (ARMD) patients. *Journal of Cellular Biochemistry* 99(1) 79-87 (2006). (published online 4/5/06; DOI 10.1002/jcb.20857)
4. Mark D. Womble and **Gary R. Walker**, "Teaching Biology to a Visually Impaired Student" *Journal of College Science Teaching* 30(6):394-396 (2001).
5. **Walker, G.R, Thomas Watkins** and Carl F. Ansevin, "Identification of Autoantibodies Associated with Rippling Muscles and Myasthenia Gravis that Recognize Skeletal Muscle Proteins: Possible Relationship of Antigens and Stretch-Activated Ion Channels" *Biochem. Biophys. Res. Comm.* 264(2): 430-435 (1999).
6. **Walker, G** , Shuster, B. and D. R. Burgess, Microtubule-entrained Kinase Activities Associated with the Cortical Actin Cytoskeleton During Cytokinesis. *Journal of Cell Science* 110: 1373-1386 (1997)
7. **Walker, G**, D.R. Burgess and W.H. Kinsey, Fertilization Promotes Selective Association of the Abl-kinase with the Egg Cytoskeleton. *European Journal of Cell Biology* 70; 165-171 (1996)
8. **Walker, G**, Kane, R.E.and D. Burgess, Isolation and Characterization of a Sea Urchin Zygote Cortex Which Supports In Vitro Contraction and Reactivation of Furrowing. *J. Cell Science* 107: 2239-2248 (1994)
9. **Walker,G.**, Yabkowitz, R. and D.R. Burgess, Mapping the Binding Domain of a Myosin II-binding Protein. *Biochemistry* 30 (42): 10206-10210 (1991).
10. **Walker, G** and L.Y.W. Bourguignon, Membrane-associated 41kDa GTP-Binding Protein in Collagen-Induced Platelet Activation. *FASEB Journal* 4(11):2924-2933 (1990).
11. Bourguignon, L.Y.W., **G.Walker**, and H.S. Huang Interactions between a Lymphoma Membrane-Associated Guanosine 5'-Triphosphate-Binding Protein and The Cytoskeleton During Receptor Patching and Capping. *J. Immunology* 144: 2242-2252(1990).
12. **Walker, G.R.**, J.D. Taylor and T.T. Tchen, Immunofluorescence Evidence for Cytoskeletal Rearrangement Accompanying Pigment Redistribution in Goldfish Xanthophores. *Cell Motility and the Cytoskeleton* 14:458-468 (1989).
13. **Walker, G.**, W.G.L. Kerrick and L.Y.W. Bourguignon, The Role of Caldesmon in the Regulation of Receptor Capping in Mouse T-Lymphoma Cell. *J.Biol.Chem.* 264(1): 496-500 (1989).
14. Tchen, T.T., S.-J. Lo, T.J. Lynch, R.E. Palazzo, G. Peng, **G.R. Walker**, B.-Y. Wu, F.-X. Yu and J.D. Taylor, Regulation of the Distribution of Carotenoid Droplets in Goldfish Xanthophores and Possible Implication to Secretory Processes. *Cell Motility and the Cytoskeleton* 10:143-152 (1988).
15. Tchen, T.T., R.D. Allen, S.-C. J. Lo, T.J. Lynch, R.E. Palazzo, J. Hayden, **G.R.Walker** and J.D. Taylor, Role of Microtubules in the formation of Carotenoid

- Droplet Aggregate in Goldfish Xanthophores. Ann. N.Y. Acad. Sci. 466:887-894 (1986).
16. Bourguignon, L.Y.W., **G. Walker**, S.J. Suchard and K. Balazovich, A Lymphoma Plasma Membrane- Associated Protein with Ankyrin-Like Properties. J. Cell Biol. 102(6):2115-2124 (1986).
 17. Bourguignon, L.Y.W., **G. Walker** and G.J. Bourguignon, Phorbol Ester-Induced Phosphorylation of a Transmembrane Glycoprotein (GP180) in Human Blood Platelets. J. Biol. Chem. 260:11775-11780 (1985).
 18. **Walker, G.R.**, J. Matsumoto, J.D. Taylor and T.T. Tchen, Intermediate Filaments with Novel Protein Composition from Certain Goldfish Cells. Biochem. Biophys. Res. Comm. 133(3):873-877 (1985).
 19. Clark, C.R., **G.R. Walker**, T.J. Lynch, J.D. Taylor and T.T. Tchen, Identification of a 75d Phosphoprotein Specific to Melanophores. Pigment Cell :37-43 (1985).
 20. **Walker, G.**, An Immunological Study of the Goldfish *Carassius auratus* I. Chromatophore Cytoskeleton: The Identification of Two Intermediate Filament Peptides. Wayne State University, dissertation (1984).

Abstracts: 52 abstracts

1. **Robert R. DeVita, Estee L. George, Sarah Ritchey, Aaron Esbenshade**, George T. Yates, Jozsi Jalics and **Gary Walker**, Proteomic Analysis and Mathematical Modeling of Butanol Fermentation by *Clostridium beijerinckii*, 35th Symposium of Biotechnology for Fuels and Chemicals (May 2013, **DeVita & George** presented)
2. Jonathan Caguiat, Jozsi Jalics, **Gary Walker**, George T. Yates
Research by Undergraduates in Mathematical Biology: Modeling Cellular Processes in Bioremediation and Biofuels. (G. Yates Presented)
3. **Robert DeVita², Estee George, Sarah Ritchey**, George Yates, **Gary Walker**, Modeling Butanol Production by *Clostridium beijerinckii*, July 2012 (Estee George and Robert DeVita presented.)
4. **Robert DeVita, Bradley Slabe, Gary Walker**, George Yates
 - a. *Mathematical Modeling and Data Analysis of the Growth*
 - b. *and Acetone, Butanol, Ethanol (ABE) Production of Clostridium beijerinckii.*
 NIMBioS Conference on October 21-22, 2011.
5. **S. Robbins, G. R. Walker**, Expression Patterns of mTOR and Galectin-1 During Differentiation of C2C12 Cells. Molecular Biology of the Cell 21(2010),4299 (#1554).
6. **L. Zelinka, S. McCann, M. Guidos, G. Walker**, Expression of a Rippling Muscle/ Myasthenia Gravis Antigenic Domain of Titin N2-A as a Glutathione-S-Transferase Fusion Protein. Molecular Biology of the Cell 19 (suppl): 308 (2008).
7. **J. M. Chandler, E. R. Treece**, J. L. Frommelt, **H. R. Trenary**, T. D. Kim, C. R. Cooper, **G. R. Walker**, Changes in Fungal Protein Populations during the Temperature-induced Dimorphic Switch in *Penicillium marneffei*., Mol. Biol. Of the Cell 18 (suppl): 383 (2007).
8. **Maria Lee, Julie M. Chandler**, Chester R. Cooper, **Gary R. Walker** and Thomas J. Volk, Proteomic profiling of dimorphism in *Penicillium marneffei* an opportunistic

- fungal pathogen of humans. (presented at the annual Mycological Society Meeting) (2007)
9. Cooper CR Jr., Chandler JM, Treece ER*, Kim TD, **Walker GR**. Protein Profiling of Dimorphism in the Fungal Pathogen, *Penicillium marneffeii*. Eighth International Mycological Congress, Carins, Australia. August 22, 2006.
 10. E. R. Treece, J. M. Chandler, C. R. Cooper, **G. R. Walker** and T. D. Kim, Protein Profiles of the Yeast and Mold Phases of the Pathogenic Fungus, *Penicillium marneffeii*, (poster) (OBASM, Cincinnati, OH, 2006)
 11. J. M. Chandler, E. R. Treece, T. D. Kim, **G. R. Walker**, C. R. Cooper, Jr. Yeast Phase Protein Profiling of the Dimorphic Fungal Pathogen, *Penicillium marneffeii*, (ASM Conference "Dimorphic Fungal Pathogens" abstracts page 30, 2006, Denver)
 12. J. M. Chandler, K. Segna, **G. R. Walker**, T. D. Kim and C. R. Cooper Dimorphic Changes in the *Penicillium marneffeii* Secretome: The Possible Identification of a Serine Peptidase Specific for the Pathogenic Yeast Form. (ASM Conference "Dimorphic Fungal Pathogens" abstracts page 30, 2006, Denver)
 13. **G. R. Walker**, Sara Pizzino, Kara Segna, Thomas Kim and Chester Cooper Analysis of the *Penicillium marneffeii* Secretome: the Proteomics of an Opportunistic Pathogen (ASCB Annual Meeting, 2005, San Francisco)
 14. Kim, TD, Cooper, CR and **Walker, GR**, Fungal Proteomics: a platform for collaborative, interdisciplinary research at a primarily undergraduate institution. FASEB journal 19(4): A812-A8812 Part 1 Suppl. S. 2005
 15. Kim TD, Brown D, **Walker GR**, Cooper CR Jr. Proteomic Profiling of *Wangiella dermatitidis*. International Union of Biochemistry and Molecular Biology/American Society of Biochemistry and Molecular Biology, Boston, MA, June 2004.
 16. Diana R. Arnett, **Gary R. Walker** and David K. Asch. Comparative Proteomic Analysis of Wild-type and a Mutant *Neurospora crassa* Constitutive for Expression of the Genes of the Quinic Acid (*qa*) Cluster. The First Fungal Proteomics Symposium (Fall 2004)
 17. Chester R. Cooper, Jr., **Gary R. Walker**, and Thomas D. Kim. Protein Profiling of Dimorphism in the Pathogenic Fungus, *Penicillium marneffeii*. The First Fungal Proteomics Symposium (Fall 2004)
 18. Chester R. Cooper, Jr., Thomas D. Kim and **Gary R. Walker**. Fungal Proteomics as an Interdisciplinary Undergraduate Research Program. CUR National Conference. (Summer 2004)
 19. D. R. Arnett, **G. R. Walker**, and David K. Asch, Analysis of Gene and Protein Expression of the Quinic Acid (*qa*) Cluster in *Neurospora crassa* under Catabolite Repressing Conditions. Gordon Research Conference (Summer 2004).
 20. **G. R. Walker**, M. Kesic, T. C. Watkins, Possible Protein Targets for Rippling Muscle Disease. Molecular Biology of the Cell 14(suppl): 45a (2003).
 21. Watkins, T., L. Zelinka, C.F. Ansevin and **G.R. Walker**, Localization of Autoimmune Rippling Muscle Antigen to Skeletal Muscle Membranes. Molecular Biology of the Cell 12(suppl): 161a (2001).
 22. Krontiris-Litowitz, J.K., J. Hillyer and **G.Walker**, Dietary Calcium Influences Ventricular Hypertrophy in Borderline Hypertensive Rats. The FASEB Journal 15(4):A465 (2001)

23. **Walker, G.** The Changing Landscape of Science and Technology Education. Article in A&S of Teaching Vol 6 (1) December, 2000 (YSU newsletter)
24. Thomas C. Watkins (Henry R. Viets Fellow), Carl F. Ansevin, M.D. & **Gary R. Walker**, Ph.D. Autoimmune antigens in rippling muscles associated with MG (2000) presentation at the Myasthenia Gravis Foundation of America's Scientific Meeting held in Boston, MA.
25. Thomas C. Watkins (Henry R. Viets Fellow), **Gary R. Walker**, M.D., Staci R. Raab, M.D., & Carl F. Ansevin, M.D., Characterization of skeletal muscle antibodies in patients with autoimmune rippling muscles and myasthenia gravis (1999) presentation at the Myasthenia Gravis Foundation of America's Scientific Meeting held in Seattle WA.
26. **Walker, G.**, T. Watkins, S. Raab, and C. Ansevin, Antibodies Identified in Autoimmune Rippling Muscle Disease Associated with Myasthenia Gravis. *Molecular Biology of the Cell* 9 (suppl): 27a (1998).
27. Ansevin, C.F., T. Watkins and **G. Walker** Autoimmune rippling muscles with Myasthenia Gravis: autoantibodies to mechanosensitive channels? *Neuromuscular Disorders* 8 (3,4) : 283. (1998)
28. **Walker, G.** , Regulation of Cell Division in Sea Urchin Eggs, presented at "Quest 96" Youngstown State University.
29. **Walker, G.** and D.R. Burgess, Activation of Cortical Kinases in the Signalling Pathway for Cytokinesis. *Molecular Biology of the Cell* 6(suppl): 132a (1995)
30. **Walker, G.** , K. D. Feather, P. D. Davis and K. K. Hines, SuperSignal CL-HRP: A New Enhanced Chemiluminescent Substrate for the Development of the Horseradish Peroxidase Label in Western Blotting Applications. Application Note in *The Journal of NIH Research* 7: 76 (1995)
31. **Walker, G.** and D.R. Burgess, Potential Regulation of the Contractile Ring by Activation of Cortical Cytoskeletal Kinases. *Molecular Biology of the Cell* 5(suppl): 241a (1994)
32. Harrington, F., Yabkowitz, R., **Walker, G.** and D.R. Burgess, Expression of a Myosin-Binding Protein with Kinase Activity. *Molecular Biology of the Cell* 4(suppl): 260a (1993)
33. **Walker, G.** and D.R. Burgess, Cortical Cytoskeleton-associated Protein Kinase Activity Cycles During The Cell Cycle and Peaks at Cytokinesis. *Molecular Biology of the Cell* 3(suppl): 337a (1992)
34. Shartzter, K.L., **G. Walker**, D.R. Burgess and W.H. Kinsey, Fertilization Induced Activation of Tyrosine Protein Kinase(s) Associated With The Egg Cytoskeleton. *Molecular Biology of the Cell* 3(suppl): 337a (1992)
35. **Walker, G.** and D.R. Burgess, Characterization of ATP Induced Changes in Isolated Sea Urchin Egg Cortex Shape. *J. Cell Biology* 111:415a (1990)
36. Bourguignon, L.Y.W., **G. Walker** and H.S. Huang, Interaction Between A Lymphoma Membrane-associated GTP-binding Protein and The Cytoskeleton During Receptor Capping. *J. Cell Biol.* 109: 173a (1989).
37. Kane, R.E., J. Myerson, **G. Walker** and D. Burgess, Isolation of Fertilized Sea Urchin Egg Cortices Which Contract in an ATP-dependent Manner. *J. Cell Biol.* 109: 190a (1989).

38. **Walker, G.** and D. Burgess, Sea Urchin Myosin and Myosin associated Proteins: An Immunological Study. *J. Cell Biol.* 109: 84a (1989).
39. Burgess, D.R., R. Yabkowitz and **G.R. Walker**, Identification of a Putative Binding Site for a Sea Urchin 54kD Myosin Binding Protein. (presented at the New York Academy of Sciences conference "Mechanisms of Furrow Formation").
40. **Walker, G.R.**, A. Brown and D.R. Burgess, Characterization of Sea Urchin Egg Myosin by Proteolytic Analysis. *J. Cell Biol.* 107:259a (1988).
41. **Walker, G.**, W.G.L. Kerrick and L.Y.W. Bourguignon, The Role of Caldesmon in the Regulation of Receptor Capping in Mouse T-Lymphoma Cells. (presented at the 4th Intl. Congress of Cell Biol., 1988)
42. **Walker, G.** and L.Y.W. Bourguignon, Involvement of GTP-Binding Protein in Lymphoma Thy-1 Capping. *J. Cell Biol.* 105:14a (1987).
43. **Walker, G.**, S. Suchard, E. Kalomiris and L.Y.W. Bourguignon, Transmembrane Association Between a Lymphoma Glycoprotein GP 85 and an Ankyrin-Like Molecule. *J. Cell Biol.* 103:542a (1986).
44. Bourguignon, L.Y.W., **G.R. Walker**, and G.J. Bourguignon, Phorbol Ester-Induced Phosphorylation of a Transmembrane Glycoprotein (GP 180) in Human Blood Platelets. *J. Cell Biol.* 101:413a (1985).
45. Palazzo, R.E., T.J. Lynch, S.J. Lo, **G.R. Walker**, J.D. Taylor and T.T. Tchen, On the Mechanism of the Formation of Carotenoid Droplet Aggregates in Goldfish Xanthophores. *J. Cell Biol.* 99:51a (1984).
46. **Walker, G.R.**, R.E. Palazzo, T.J. Lynch, F. Yu, J.D. Taylor and T.T. Tchen, Identification of Intermediate Filament Proteins Present in Goldfish (*Carassius auratus* L.) Chromatophore Cytoskeletons. *J. Cell Biol.* 99:321a (1984).
47. Palazzo, R.E., **G.R. Walker**, T.J. Lynch, J.D. Taylor and T.T. Tchen, Cytoskeletal Protein Kinase Activities in Pigment Cells. *J. Cell Biol.* 97:291a (1983).
48. **Walker, G.R.**, T.J. Lynch, T.D. Taylor and T.T. Tchen, Production and Characterization of Monoclonal Antibodies to Xanthophore Cytoskeletal Proteins. Presented at the XIIth Internatl. Pigment Cell Conference Workshop, (1983).
49. Lynch, T.J., J. Matsumoto, R.E. Palazzo, **G.R. Walker**, J.D. Taylor and T.T. Tchen, Pigment Translocation and Cytoskeletal Function in Normal and Neoplastic Pigment Cells from Goldfish Presented at the XIIth Internatl. Pigment Cell Conference Workshop, (1983).
50. Grabowski, S.M., **G.R. Walker**, C.R. Clark, J. Matsumoto, T.J. Lynch, J.D. Taylor and T.T. Tchen, Differentiation of Normal Pigment Cells *in vitro*. Presented at the XIIth Internatl. Pigment Cell Conference Workshop. (1983).
51. Lynch, T.J., S.J. Lo, **G.R. Walker**, J.D. Taylor and T.T. Tchen, Regulation of Organelle Translocation in Goldfish Xanthophore. *Fed. Proc.* 42:2219a (1983).
52. Lo, S.J., T.J. Lynch, **G.R. Walker**, J.D. Taylor and T.T. Tchen, The Cytoskeleton of the Goldfish Xanthophore During Pigment Translocation and Cell Shape Change. *J. Cell Biol.* 95:330a (1982).

Book Chapters/ Short Papers/ Extended Abstracts (6)

1. Julie M. Chandler,¹ Heather R. Trenary,² **Gary R. Walker**, and Chester R. Cooper, Jr.*
Capillary Electrophoresis for Protein Profiling of the Dimorphic, Pathogenic Fungus,

- Penicillium marneffeii Humana Press (2013) Methods Mol Biol. 2013; 984:275-84, Chapter 20. doi: 10.1007/978-1-62703-296-4_20.
2. **Walker, G.R.**, Matsumoto, J., Lynch, T.J., Taylor, J.D., and Tchen, T.T. (1984). Monoclonal-Antibodies against Pigment Cell Cytoskeletal Proteins. Yale Journal of Biology and Medicine 57, 431-431.
 3. **Walker, G.R.**, Lynch, T.J., Taylor, J.D., and Tchen, T.T. (1984). Production and Characterization of Monoclonal-Antibodies to Xanthophore Cytoskeletal Proteins. Yale Journal of Biology and Medicine 57, 431-431.
 4. Lynch, T.J., Matsumoto, J., Palazzo, R.E., **Walker, G.R.**, Taylor, J.D., and Tchen, T.T. (1984). Pigment Translocation and Cytoskeletal Function in Normal and Neoplastic Pigment-Cells from Goldfish. Yale Journal of Biology and Medicine 57, 390-391.
 5. Lo, S.C.J., Palazzo, R.E., **Walker, G.R.**, Lynch, T.J., Taylor, J.D., and Tchen, T.T. (1984). Cytoskeletal Structure and Composition in Goldfish Xanthophores. Yale Journal of Biology and Medicine 57, 388-388.
 6. Grabowski, S.M., **Walker, G.R.**, Clark, C.R., Matsumoto, J., Lynch, T.J., Taylor, J.D., and Tchen, T.T. (1984). Differentiation of Normal Pigment-Cells Invitro. Yale Journal of Biology and Medicine 57, 361-361.

Sequence submissions (6)

GenBank submissions

- *Homo sapiens* ACCESSION: EU428784
- *Penicillium marneffeii* ACCESSION: EU532183,
- *Penicillium marneffeii* ACCESSION: EU532184,
- *Penicillium marneffeii* ACCESSION: EU532185,
- *Penicillium marneffeii* ACCESSION: EU532186,
- *Penicillium marneffeii* ACCESSION: EU532187

List of Scientific Presentations Given and Meeting Attended

(any published abstracts from these presentations are cited above.)

- 2011 Sustainable Energy Forum at YSU, June 7th, 2011, Proteomics of Butyl Alcohol Fermentation and Strategies for Optimizing The Organism, Gary Walker.
- 2010 ASCB Annual Meeting, Philadelphia, PA
- 2010 Sustainable Energy Forum at YSU Tues June 8th ,Bio-butanol Doug Price, Gary Walker, Balendiran
- 2008 ASCB Annual Meeting, San Francsico, Ca .
- 2007 ASCB Annual Meeting, Washington DC., Dec 1-5.
- 2006 ASM Conference on Dimorphic Fungal Pathogens, Denver, CO.
- 2005 ASCB Annual Meeting San Francisco, CA.
- 2005 SACNAS Conference in Denver, CO
- 2005 OSEA Conference, Akron, Mentor, Undergraduate Research Poster. (**panel discussion group, "Surviving and Thriving in Graduate School"**)

2004 1st Fungal Proteomics Symposium (Portland, Oregon)
2004 CUR National Conference (La Crosse)
2003 ASCB meeting poster presentation (San Francisco)
2001 ASCB meeting poster presentation (Washington, DC)
1998 World Muscle Meeting poster presentation, (Italy)
1998 ASCB meeting poster presentation
1995 ASCB meeting poster presentation
1994 ASCB meeting poster presentation
1993 ASCB meeting poster presentation
1993 Cold Spring Harbor "Cytoskeleton" meeting poster presentation
1992 ASCB meeting poster presentation
1991 Poster presentation, Sea Urchin Development Meeting, MBL, Woods Hole.
1990 ASCB meeting poster presentation
1989 ASCB meeting **mini-symposium**
1989 ASCB meeting poster presentation
1988 ASCB meeting poster presentation
1987 ASCB meeting poster presentation
1986 ASCB meeting poster presentation
1985 ASCB meeting poster presentation
1983 ASCB meeting poster presentation
1982 ASCB meeting poster presentation

CERTIFICATIONS

Certificate of Completion

The National Institutes of Health (NIH) Office of Extramural Research certifies that **Gary Walker** successfully completed the NIH Web-based training course "Protecting Human Research Participants".

Date of completion: 07/21/2010

Certification Number: 470185

Teaching

Current and Past Courses

- **Protein Analysis-** BIOL 6966 (2+2 S.H.) **NEW** (F2006, F2007)
- **Cell Biology: Fine Structure--** BIOL 2610 (3 S.H.) (X1999, F1999 X2000, F2000, X2001, F2001, X2002, F2002, X2003, F2003. X2004, F2004, X2005, F2005, X2006, F2006, X2007)
- **Cell Biology: Molecular Mechanisms-** BIOL 5838 (3+1 S.H.) (X1999, F1999 X2000, F2000, X2001, F2001, X2002, F2002, X2003, F2003. X2004, F2004, X2005, F2005, X2006, F2006, F2007)
- **Cell Biology: Molecular Mechanisms Laboratory-** BIOL 5838L (X1999, F1999 X2000, F2000, X2001, F2001, X2002, F2002, X2003, F2003. X2004, F2004, X2005, F2005, X2006, F2006, F2007)
- **Principles of Electron Microscopy-** - BIOL 6965 (3+1 S.H.)
- **TCH Practicum I: Biol-** BIOL 6978 (1 S.H.)
- **Problems: Cell Biology-** BIOL 4850L (all years)
- **General Biology II: Organisms and Ecology--** BIOL 2602 (4 S.H.) (S1999, S2000, S2001, S2002, S2003, S2004, S2005, S2006, S2007)
- **Concepts of Developmental Biology-** BIOL 5809 (3 S.H.)
- **Analytical Cell Biology-** BIOL 6959 (4 S.H.)

Courses Developed

- **Integrated Biology for BS/MD** - BIOL 2603 (4SH) (first offered summer 2013)
- **Cancer Biology-** BIOL 4823 (2 S.H.) (Approved 2010)
- **Protein Analysis-** BIOL 6966 (2+2 S.H) (Approved 2006)
- **Molecular Microbiology II: Protein Biology-** BIOL 3717 (2+ 2 S.H.) Two hours lecture four hours laboratory . (Approved 2007)
- **Cell Biology: Fine Structure--** BIOL 2610 (3 S.H.)
- **Cell Biology: Molecular Mechanisms-** BIOL 5838 (3+1 S.H.)
- **Concepts of Developmental Biology-** BIOL 5809 (3 S.H.)
- **Analytical Cell Biology-** BIOL 6959 (4 S.H.)

Advising and Mentoring

Special Undergraduate Mentoring

Senior Honors Research thesis advisor

Robert DeVlta, 2013 Thesis: "Modeling Butanol Production by *Clostridium Beijerinckii*" research conducted in Walker Lab

Joseph Dikun, Spring 2006- spring 2007. Honors Thesis. "The effect of Rapamycin on the phosphoproteome of *Penicillium Marneffeii* " research conducted in Walker Lab.

Sepanta Jalali Spring 1998. Her research was conducted at the Cleveland Clinic studying b-glucouronidase. The title of her thesis was *The Genetic Analysis of Mouse B-Glucoronidase Enzyme Deficiency in Identifying Human Mucopolysaccharidosis Type VII Disease*.

Undergraduates mentored in research (since 2006)

Lisa , Angela Sherokee (2009-2011), Robert Giles (Fall 2009- 2011), Sumedha Sethi (2007-2009), Stephanie McCann (2006-2008), Michelle Guidos (2006-2008), Joseph Dikun (Jan. 2006-May 2007), Jaclynn Morris (Jan. 2006-May 2007), David Hamer (Jan. 2006-May 2007)

Other Mentoring

Monica Mehta Boardman High School, summer 2009 & 2010

Jonathan Balogh Tech Prep student research internship Summer 2007

Donald Sarahs (Fall 2006), Neal Middle School, Forensic DNA analysis project for a science fair.

Mentor Boardman Middle Schools EXCEL program (Brooke Katzman, 2001; Caitlyn Ryan, 2000)

Numerous undergraduates (19 students from 2006 – present alone) have been trained and conducted research in the Walker laboratory.

Master's Thesis committee member for (Thesis/Research Primary Advisor, 27)

1. Robert Giles (Fall 2011-present)
2. Aaron Esbenshade (2010- Dec 2012) (Job searching)
3. Stephanie McCann, (Fall 2009- defended Dec 2011, Developmental Industrial Scientist AMRESO)
4. Sumedhas Sethi, (Fall 2009- defended Aug 2011, Duquense Univ Ph.D. Program)
5. Michelle Guidos, (Fall 2009- present, Nanologix scientist).
6. Garrett Rowe (Fall 2008- defended Aug 2011)
7. Marcus Cospers (Fall 2006- defended Spring 2009) (to PA school, Chatum College, PA, Practicing PA)
8. Catherine Kasper (Co-adviser, defended Fall 2006- Fall 2009 to medical School)
9. Meghan O'Brien (Fall 2006- defended Fall 2008) (to PA school)
10. Steven Robbins (Fall 2004- **Non completion**)
11. Kyle Sobecki (Fall 2003- defended Dec. 2005) (then to NEOUCOP for PharmD)

12. Christine Dolpin (Fall 2003- defended Aug. 2005) (pharmaceutical sales)
13. John Gentile (2003-**Non completion**) (Medical School)
14. Matthew Kesic (2002- defended 2004) (then to OSU for Ph.D.)
15. Andrew Lariviere (Jan, 2001- defended 2003) (then to PSU Ph.D.)
16. Allison Jakubec(Jan . 2000- present **Non completion**)
17. Keytame Awad (Sept. 2000- 2001 defended)
18. Mala Milkovich (Sept. 2000- 2002 defended)
19. Lisa Reyes (Sept. 1999- 2002 defended) (then to KSU Ph.D.)
20. Monica Hughes (Sept 1997- January 1999 Defended)
21. Staci Raab (January 1998 - Defended August 1999)
22. Nader Atway (January 1998 - Defended Fall 1999) (pharmaceutical sales)
23. Laura Shea (January 1998 - Defended August 1999)
24. Rich Kandrac (September 1997- incomplete)
25. Tom Watkins (January 1997-Augusted 1998 Defended)
26. David Vrable (Aug. 1996-Sept. 1997 Defended) (?)
27. Scott Nestich (June. 1996-June 1997 Defended) (Fisher Scientific)

(as Non-primary advisor member, 61)

1. Andraele Reed (2012- present, Leipheimer)
2. Cory Muraco (2012- S2013, Serra, Chemistry)
3. Joe Rupert (2012-Present, Butcher)
4. Michael Werry (2012- present, Asch)
5. Dana Tirabassi (2012- present, Asch)
6. Robin McConaghy 2011-present (Lorimer)
7. Vincent Florio (Fall 2009- Aug 2011) (Asch)
8. Swarnalatha Moparathi (Dr. Caguiat, Fall 2010, Biological Sciences)
9. Lisa Tofil (Dr. Litowitz, Summer 2010, Biological Sciences)
10. Traci Clymer (Dr. Norris, Summer 2010, Chemistry)
11. Kenneth Zame (Dr. Price, Summer 2010, Environ. Studies)
12. Snezana Aleksic (Price, Chem Eng, Spring 2009)
13. Karen E. Stangl (Dr. Cooper, Dec 2008)
14. Nathaniel W. Barasa (Aug 2008)
15. Caralisa Breidenbaugh (Dr. Cooper, Aug 2008)
16. Anitha Muttavarapu (Serra, Chemistry, Aug 2007)
17. Margaret Person (Litowitz) (Spring 2007)
18. Ashley Jasenec (Dr. Caguiat, Spring 2008)
19. Bhargavi Vemulapalli 5/4/06
20. Mikhenan Horvath 4/28/06
21. Sridevi Ravulaparti 4/24/06
22. Umakanth Potula (Chemistry) (Fall 2004-present)
23. Neelima Dobbala (Chemistry) (4/24/06)
24. Doug Orr (Fagan) (Fall 2004-2006)
25. Ta Tisha Morris (Litowitz) (Fall 2004-Fall 2007)
26. Becky Rupert (Cooper) (defended Spring 2005)
27. JamesShevchuk (Asch) (defended 2004)

28. Donald Brown (Cooper) (defended 2004)
29. Kiran Keniya (Chemistry) (defended spring 2005)
30. Tamra Diglaw (Johnson) (defended 2004)
31. Katherine Kitzmiller (Chemistry) (defended 2004)
32. Sarah Wilson (Womble)(2003 to present)
33. Nicole Toth (Fagan)(Defended Sept., 2003)
34. Julia Sable (Lorimer) (Defended Sept. 2003)
35. James Andrews (Womble) (Defended 2000)
36. Ryan Colapietro (defended)
37. Debbie Burns (defended)
38. Jason White (defended)
39. Diana Arnett (Asch) (Defended 2000)
40. Dane Snyder (defended)
41. Jason Pope (defended)
42. Shannon Durkin (Asch) (Defended in 2000)
43. David Powell (Leipheimer)(Defended 10/18/00)
44. Nicole Damico (Fagan) (Defended 2000)
45. Kelly Hay (Defended 2000)
46. Brian Schmidt (Fagan) (1999)
47. Eva Marshal (Asch)(defense in Aug. 1999)
48. An'trese Critchlow (Lorimer) (Defended 2000)
49. Sadhana Ginde (Peterson) (Defense in Sept. 1999)
50. Tracy Smith (Fagan) (defense in Aug. 1998)
51. Lenka Fedorkova (Leipheimer) (defense in Aug. 1998)
52. John Alcorn (Leipheimer) (defense in Aug. 1998)
53. Michael Arvin (Leipheimer) (defense in Aug. 1998)
54. Megan Storey (Leipheimer) (defense in August 4, 1997)
55. Scott Raidel (Asch) (defense in Sept. 1997)
56. John Troutman (Asch) (defense in Nov. 1997)
57. Paul Entler (Asch defense in Nov. 1996)
58. Dara Beal (defense in Oct. 1996)
59. Kim Rutledge (defense in Oct. 1996)
60. Sharon Usip (defense in August. 1996)
61. Susan Dunn (Sabota)(defense in May 1996)

Non-thesis Presentation Committee, 3

1. Hoffman (-completed Spring 2005)
2. Erin O'Brien Yiannaki (completed 2004)
3. Ned Kassawat (incomplete)

Ph.D. Dissertation (Kent State University) Research Advisor for the following (3):

1. Steve Robbins (2007- present, out of program 2012 lack of engagement)
2. Lisa Zelinka (KSU) (August 2001-present)

3. Tom Watkins (KSU) (Defended, March 18, 2004) (post-doc YSU, then LECOM,)

Service and Faculty Development

Workshops/Career Development

- SBIR/STTR Workshop, Youngstown Business Incubator, 5/2/12
- Workshop in Intellectual property, Youngstown Business Incubator, 12/13/11
- Northeast Ohio Innovation Forum, NEOUCOM, Congressman Ryan organized, Jan. 30th, 2006.
- Research Retreat at NEOUCOM , Monday December 16,2002
- NEOUCOM Interviewing Workshop , February 8, 2001
- I attended a "Writing Across the Curriculum" workshop conducted by Dr. Virginia Anderson, from Towson University, that explored ways that we can incorporate writing into courses. YSU, Winter 2/11/2000.
- I attended a Project Kaleidoscope Leadership Institute, at Baca campus Colorado College, June 10-15, 2000.
- Praxis Workshop- December 12/ 2000
- Project Kaleidoscope National Assembly, Washington, D.C., Sept 11-13, 1999.
- Project Kaleidoscope Educational Workshop on Biochemistry, Rice Univ., Sept 11-13, 1998. ("Biochemistry: Biology or Chemistry?")
- Spring Teaching Conference. Youngstown State University, May 10, 1996, "Ten Common Teaching Mistakes in the College Classroom and Some Low-Tech Solutions"

University/ College Committees and Professional Service

- CHS Summer Research Experience (Chair, ad hoc)- spring 2013-
- NEOMED Program Review, Integrated Medical Sciences Program, Spring 2012.
- IPFW Biological Sciences Program Review, Spring 2012
- CSTEM complex Committee (2008- 2009)
- Academic Senate Academic Standards Committee (Chairperson 2009-2011, 2008-2011)
- CEMS TAG representative for Biology 08-09
- STEM Graduate Program Committee (Chairperson, 2007-2008)
- Criterion 4 Accreditation Committee 2006-2007
- STEM College Dean Search Committee member. 2006-2007
- New STEM College Transition Team 2006-2007 (Served on two subcommittees)
- Academic Senate Charter and Bylaws (2006-2008)
- NEOUCOM Program Review Committee (2005)- Review of the Department of Microbiology and Immunology
- OAS annual meeting local planning committee 2003-2004
- Professional Education Council (PEC) 2000-present
- Departmental Microbiologist Search Committee (Spring 2004)
- Dean's Advisory Council Rep 2000-2002
- University Library Committee, 1999-2003
- University Library Task force on 2000

- OEA representative to University Health and Safety Comm. 1999-2008
- Goldwater Scholarship Committee, 1999-2002
- College of A&S Graduate Science/Mathematic Teacher Preparation Committee, 1997-2000.
- BS/MD Program Admissions Committee (interviewer), 1997- 2009) (2012-present).

Departmental Committees and Special Assignments

- Faculty Mentor for Dr. Min, 2008- 2013.
- Proteomics Faculty Search Committee (Spring 2008)
- Departmental Promotion Committee (06-07)
- Chair's Advisory Committee 2004-2008
- Departmental Microbiologist Search Committee (Spring 2004)
- Departmental Promotional CD preparation (With Heather Voris)
- Departmental Microbiologist Search Committee (2000)
- Departmental Health and Safety Committee, 1996-present
- Departmental Research Committee, 1996- 1998 (Litowitz, Usis, Walker)
- Departmental Minors Committee (ad hoc) 2000-2001
- Departmental Summer teaching Committee (ad hoc) 2001
- Departmental Logo Committee, (ad hoc) 1996 (Womble , Walker)
- Departmental WebPage Committee, (ad hoc) 1997 (Asch, Lorimer, Sobota, Walker)
- Graduate Student Selection Committee (ad hoc) 1997 and 1998
- Departmental Re-cycling Coordinator, 1997-1999
- Departmental Assessment Academic Histories of Majors, 1996-2003

Scholarly Service

- Leader for the Genomics/ Proteomics Research Group of the Center of Excellence in Applied Chemical Biology. 2009-present.
- Reviewer for **Medical Mycology**, 2008- present (refereed 3 articles)
- Editorial Review Board Scientific Journals International, **Journal of Medical & Biological Sciences. 2004-2010** (refereed 4 papers)- 2011 External reviewer, (one article) *Journal of Medical and Biological Sciences* and (one article) *Journal of Biology, Biological Systems, and Bioinformatics* **G.R. Walker**
- Grant reviewer** for the Ohio Plant Biotechnology Consortium, spring 2007.
- Grant reviewer** for the Ohio Plant Biotechnology Consortium, spring 2006.

Other YSU related service

- Judge, -Judge, Neal Middle School, 2006
- Judge, OAS "Lake to River Science Fair", 2000, 2001, 2004
- Judge, Dade County Science and Engineering Fair, Feb. 26, 1990
- Judge, Struthers Middle School Science Fair, 1997, 1999, 2001
- Judge, Pennsylvania Junior Acad. of Science, Regional Meet, Feb. 8, 1992

Community Organizations Associations

- President of the Board of Directors, Help Hotline Crisis Center (2012)
- Vice-president of the Board of Directors, Help Hotline Crisis Center.(2008-2011)
- Awarded the Vestry Community Service, Award 2013
- Saint John's Episcopal Church. Vestry 2000-2012 (one term as clerk, two previous term as Junior Warden, and one term as Senior Warden)
- Community Supported Agriculture, Grow Youngstown Advisory Board.

Other Service Activities (Community)

- Proteomics presentation at the Youngstown Kiwanis Club (Fall 2003)
- Lecture on Proteomics to the First Presbyterian Church of Youngstown Fall 2003
- Panelist "Who's Life is it Anyway", Mahoning Valley Association of Churches, Sept. 30, 2007, Disciples Christian Church, Boardman..
- Advised Students during 1995-present academic year.
- Appeared on Youngstown Report of PBS channels 45-49. Fall 2003)
- Talked to the Montessori School of the Mahoning Valley about Stem Cells, 7-8 graders. January 13th, 2006, 10:30.
- Quest Poster Official 2004
- Quest Judging (2002, 2007, 2009)
- Planning for STL workshop for Feb, 2001
- New Beginnings For Academics -Mentor to Travis Platero
- Marshal for commencement, winter and summer 1996, Spring 1999, Spring 2001, Summer 2003, Youngstown State University.
- Undergraduate students of special merit as independent study students requiring laboratory instruction;
Amy Hatfield (fall 1996 & winter 1997) She presented her work at regional Engineering conference.
- Co-author Laboratory Manual for Developmental Biology Laboratory, unpublished, University of Pittsburgh (Dr. Scott Baird Co-author)
- Lecture, "Cleavage" University of Miami, Biology 652, spring 1990.
- Supervises graduate students as senior post-doc (University of Miami and University of Pittsburgh
Salim Mamajiwalla (Aug. 1988-1994)
Joseph Myerson (rotation student June-Aug. 1989)
- Supervised research of High School honors students (as a post-doctoral student.);
William Collago (June-Aug. 1989, Univ. Pittsburgh)
Brian Feingold (Sept. 1989-1990, Univ. Pittsburgh)
Amie Patel (June 1993-1994, Univ. Pittsburgh)
Sheffy Gordon (Dec. 1993-Feb. 1994, Univ. Pittsburgh)
- Graduate teaching experience in Comparative Anatomy Laboratory and General Biology Laboratory at Wayne State University.
- Undergraduate teaching assistant, summer 1977, (Dr. Shulls) University of Colorado. (Microbiology Laboratory).

