

## CURRICULUM VITAE

**NAME** Gregory S. May, Ph.D.

### PRESENT TITLE AND AFFILIATION

**Primary appointment:**

Professor, Division of Pathology & Laboratory Medicine, Department of Laboratory Medicine, Section of Clinical Microbiology, The University of Texas M. D. Anderson Cancer Center, Houston, TX

**Joint and adjunct appointments:**

Adjunct Associate Professor of Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX

Adjunct Professor, Department of Microbiology and Molecular Genetics, University of Texas Health Science Center, Houston, TX

### CITIZENSHIP AND STATUS

USA

<b>Office Address:</b>	Department of Laboratory Medicine Room Y 4.5323, Unit 54 The University of Texas M. D. Anderson Cancer Center 1515 Holcombe Blvd. Houston, TX 77030	<b>Telephone:</b> (713) 745-1945 <b>FAX:</b> (713) 792-8460 <b>Email:</b> gsmay@mdanderson.org
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### EDUCATION

**Degree-Grant Education:**

State University College of Arts and Sciences, Plattsburgh, NY, B.A., 1977, Biology

Marine Biological Laboratory, Woods Hole, MA, Non-degree Granting, 1979, Physiology Course

Yale University, New Haven, CT, M.Phil., 1981, Biology

Yale University, New Haven, CT, Ph.D., 1984, Biology

Sponsor, Joel L. Rosenbaum Thesis, Flagellar Protein Phosphorylation in *Chlamydomonas*

**Postgraduate Training:**

Postdoctoral Fellow, Department of Pharmacology, UMDNJ, R.W. Johnson Medical School, (formerly Rutgers Medical School) Piscataway, NJ. Sponsor, N. Ronald Morris, 9/83–8/87

### CREDENTIALS

**Boards Certification:**

N/A

**Licensure (s):**

**Active:**

N/A

**Inactive:**

N/A

### EXPERIENCE AND SERVICE

**Academic Appointments:**

Assistant Professor (tenure track), Department of Cell Biology, Baylor College of Medicine, Houston, TX, 9/87-10/93

Associate Professor (tenured), Department of Cell Biology, Baylor College of Medicine, Houston, TX, 10/93-10/99

Associate Professor (tenure track) and Microbiologist, Department of Laboratory Medicine, Division of Pathology & Laboratory Medicine, The University of Texas M. D. Anderson Cancer Center, Houston, TX, 10/99-8/03

Adjunct Associate Professor, Department of Molecular and Cellular Biology, Baylor College of Medicine, Houston, TX, 10/99-2001

Professor (tenured), Department of Laboratory Medicine, Division of Pathology & Laboratory Medicine, Section of Clinical Microbiology, The University of Texas M. D. Anderson Cancer Center, Houston, TX, 9/03-Present

Faculty, The University of Texas Graduate School of Biomedical Sciences, Houston, Texas, 2000-Present

**Academic Administrative Appointments/Responsibilities:**

Director of Research, Department of Laboratory Medicine, Division of Pathology & Laboratory Medicine, Section of Clinical Microbiology, The University of Texas M. D. Anderson Cancer Center, Houston, TX, 10/99-2001

**Institutional Committee Activities:**

Member, Steering Committee for Graduate Program in Cell and Molecular Biology, Baylor College of Medicine, 1991-99

Member, Graduate School Admissions Committee, Baylor College of Medicine, 1991-94

Member, Information Technology Committee, Baylor College of Medicine, 1990-97

Member, Graduate School Promotions Committee, Baylor College of Medicine, 1994-98

Co-Director for Graduate Program in Cell and Molecular Biology, Baylor College of Medicine, 1994-99. This graduate program consists of approximately 45 students and 100 faculty.

Member, Graduate School Curriculum Committee, Baylor College of Medicine, 1998-99.

Member, Faculty Achievement Awards, Basic Research Subcommittee, 2003

Chair Elect of Postdoctoral Advisory Committee, 2006-2007

Member, Postdoctoral Advisory Committee, 2004 - Present

**Other Appointments/Responsibilities:**

Member, Huffington Center on Aging, Baylor College of Medicine, Houston, TX, 1987-99

**Committee Memberships:**

**National and International:**

Elected member, Fungal Genetics Policy Committee for the Fungal Genetics Stock Center and the Fungal Genetics Conference, 1993-99

Chairman, Fungal Genetics Policy Committee for the Fungal Genetics Stock Center and the Fungal Genetics Conference, 1995-97

Member, Coordinating Committee for the sequencing of the *Aspergillus nidulans* genome, 1997.

Member, external advisory board for the Fungal Genetics Stock Center, Kansas City, MO, 1999-present.

Member, Advisory Committee for the sequencing of the *Aspergillus flavus* genome, 2003-2006.

Member, external advisory board for National Center for Macromolecular Imaging, Baylor College of Medicine, Houston, TX 2006-present.

**Local and State:**

Faculty adviser for departmental graduate student symposium, Cell Biology, Baylor College of Medicine, 1988.

Organizer of Cell Biology Departmental Seminar Series at Baylor College of Medicine, 1990-1999.

Faculty adviser for Baylor graduate student symposium, 1991.

Member, Temporary Advisory Committee of the Graduate Program in Cell Biology, Baylor College of Medicine, 1991-94.

Coordinator for the Graduate Student Seminar, Cell Biology, Baylor College of Medicine, 1991-94.

Faculty adviser for departmental graduate student symposium, Cell Biology, Baylor College of Medicine, 1994.

Member, Graduate Education Committee for Cell Biology, Baylor College of Medicine, 1994-96.

Chair, Coordinating Committee for the sequencing of the *Aspergillus nidulans* genome, 1996. Raised \$250,000 from industry to sequence chromosome IV as a demonstration project at Texas A&M University and Oklahoma State University.

Member, Admissions area review panel for the graduate program of Genes and Development, 2001 - present.

Member, UT GSBS Academic Standards Committee, 10/2002 - present.

Chair, UT GSBS Academic Standards Committee, 10/2003 - present.

Alumni Member, Plattsburgh College Foundation Corporation, 2003 - present.

Member, UT GSBS Executive Committee, Representative of Academic Standards Committee, 10/2003 – 9/2005.

Member, Search Committee for Chairman Infectious Diseases, Infection Control and Employee Health, 2004-2005.

Mentor Member for the University of Idaho's Centers Of Biomedical Research Excellence (COBRE), Institutional Development Award Program, Molecular & Cellular Basis Of Host-Pathogen Interactions, 2006 - 2010.

**Consultantships:**

Genencor International, Inc. Palo Alto, CA, Consultant on heterologous gene expression in filamentous fungi, 1985-88

Schering-Plough Kenilworth, NJ, Review of antifungal development program, January 1999

Paradigm Genetics, Inc. Research Triangle Park, NC, Consultant on antifungal development program, 2000-2003

Genencor International, Inc. Palo Alto, CA, Consultant on antifungal development program, 2000-2001

Microbia, Inc. Cambridge, MA, Consultant on antifungal development program, 2002 – present

Darby & Darby P.C. New York, NY, Intellectual property consultant, 2004

**Military or Government Service:**

N/A

## HONORS AND AWARDS

Yale University Fellow, 9/77-6/78

NIH Predoctoral Fellowship Training Grant, 7/78–6/81

American Cancer Society's Institutional Research Grant Predoctoral Fellowship, 1981

Anna Fuller Fund Postdoctoral Fellowship, 9/83–9/85

NIH Postdoctoral Fellowship, 9/85–8/87

## RESEARCH

**Grant and Contract Support:**

**Currently Funded Proposals:**

Principal Investigator (50%), Molecular Genetics of Aspergillosis. NIH AI51144 05/01/02 – 04/30/07 \$700,000 (\$175,000/year). This is a proposal to study genetic functions required for fungal pathogenesis in the human pathogenic fungus *Aspergillus fumigatus*.

Collaborator (5%), New Animal Models for Invasive Aspergillosis. NIH N01-AI-30041 08/15/03 – 08/14/10 First year: \$990,609/Total: \$7,149,605, PI is T. Patterson, The University of Texas Health Science Center at San Antonio. This grant provides only salary support.

**Proposals Pending Funding:**

Principal Investigator (50%), Molecular Genetics of Aspergillosis. NIH AI51144 05/01/07 – 04/30/12 \$1,125,000 (\$225,000/year). This is a proposal to study genetic functions required for fungal pathogenesis in the human pathogenic fungus *Aspergillus fumigatus*.

**Proposals Planned:**

Principal Investigator (30%), Transcriptional regulation of virulence in *A. fumigatus*. NIH, to be submitted. This proposal utilizes comparative genomics in *Aspergillus* species to identify putative transcription factors that may regulate virulence. This is combined with whole genome microarray expression analysis and animal virulence studies to verify a genes function in virulence.

**Past Funding: (last 5 years direct costs only)**

Principal Investigator (20%), The transcriptome of pathogenic *Aspergillus fumigatus*, NIH R21-AI052236 05/01/03 04/30/04, \$2,483,898 Total, Our subcontract is \$93,000/year,

Overall proposal PI was W. Nierman, The Institute for Genomic Research. This proposal received bridge funding for 1 year. The proposal is to develop whole genome DNA microarrays for *Aspergillus fumigatus* and use them to examine changes in gene expression in response to changing nutritional environment or presence of antifungal drugs. While I have 20% effort listed on this grant I derived no salary support from it.

Principal Investigator, Collaborative Research agreement with Paradigm Genetics, Inc. Paradigm Genetics. We conducted virulence studies of genetically modified *A. fumigatus* strains developed at Paradigm Genetics. They provided access to genomic DNA arrays and DNA sequence information.

Principal Investigator, Genetic Analysis of Myosin I Function, NIH GM53027, 05/01/96 - 04/30/01  
Total Direct Costs \$453,000.

Principal Investigator, Genetics of Chromosome Structure and Segregation, NSF MCB-9513382, 03/01/96 -2/28/99, Total Direct Costs \$202, 701.

Co-principal Investigator, Studies of Mitosis in Normal and Neoplastic Cells. NIH, CA41424, (Brinkley, B.R., Principal Investigator), 01/01/97- 12/31/02, Total Direct Costs \$1,129,288

#### **Patents Pending and Granted:**

BCM Technologies, Production of recombinant lactoferrin and lactoferrin polypeptides using cDNA sequences in various organisms, U.S. Patent No. 6,635,447, 2003; 6,228,614, 2001; 6,100,054, 2000; 5,849,881, 1998; 5,766,939, 1998; 5,571,896, 1996; 5,571,691, 1996.

#### **Grant Reviewer/Service**

NIH/NIGMS Special Review Committee for Predoctoral Fellowships for Minority Students, 7/94

NIH Special Study Section, site visits:

Scripps Clinic, San Diego, CA, 11/90

Fred Hutchinson Cancer Center, Seattle, WA, 3/91

Reverse site visit of Scripps Clinic Program Project Grant, Wash., D.C., 11/94

Reverse site visit of Boulder HVEM Biomedical Research Technology Program Grant, Wash., D.C., 6/95

NIH Bacteriology and Mycology 2 study section Ad hoc Member, 2000 - 2004.

NIH Member ZRG1 F08 Special Emphasis Fellowship Study Section Nov. 2001, March 2002, July 2002, Nov. 2002, Feb. 2003, March 2004.

NIH Drug Discovery and Mechanisms of Antimicrobial Resistance, March 2005, October 2005.

NIH Member Special Emphasis Panel, Eukaryotic Pathogenesis, March 2006.

Reviewer of other grants for NSF, USDA, the Wellcome Trust, International Foundation for Science, MRC of Canada and Science Foundation Ireland

## **PUBLICATIONS**

#### **Published and accepted articles in refereed journals:**

1. Bloodgood RA, and May GS. Functional modification of the *Chlamydomonas* flagellar surface. J. Cell Biol. 93, 88-96, 1982.

2. Weatherbee JA, May GS, Gambino J, Morris NR. Involvement of a particular  $\beta$ -tubulin ( $\beta$ 3) in conidial development in *Aspergillus nidulans*. J. Cell Biol. 101, 706-711, 1985.
3. May GS, Gambino J, Weatherbee JA, Morris NR. Identification and functional analysis of  $\beta$ -tubulin genes by site specific integrative transformation in *Aspergillus nidulans*. J. Cell Biol. 101, 712-719, 1985.
4. Osmani SA, May GS, Morris NR. Regulation of the mRNA levels of *nimA*, a gene required for the G2-M transition in *Aspergillus nidulans*. J. Cell Biol. 104, 1495-1504, 1987.
5. May GS, Tsang ML-S, Smith H, Fidel S, Morris NR. *Aspergillus nidulans*  $\beta$ -tubulin genes are unusually divergent. Gene 55, 231-243, 1987.
6. May GS, Morris NR. The unique histone H2A gene of *Aspergillus nidulans* contains three introns. Gene 58, 59-66, 1987.
7. Oakley BR, Rinehart JE, Mitchell BL, Oakley E, Carmona C, Gray GL, May GS. Cloning, mapping and molecular analysis of the *pyrG* (orotidine-5'-phosphate decarboxylase) gene of *Aspergillus nidulans*. Gene 61, 385-399, 1987.
8. May GS, Morris NR. Developmental regulation of a conidiation specific  $\beta$ -tubulin in *Aspergillus nidulans*. Devel. Biol. 128, 406-414, 1988.
9. Käfer E, May G. *pyrG* of *Aspergillus nidulans*, meiotic mapping, marker interactions and growth response. Fungal Genetics Newsletter 35, 13-15, 1988.
10. Waring RB, May GS, Morris NR. Characterization of an inducible expression system in *Aspergillus nidulans* using *alcA* and tubulin coding genes. Gene 79, 119-130, 1989.
11. May GS. The highly divergent  $\beta$ -tubulins of *Aspergillus nidulans* are functionally interchangeable. J. Cell Biol. 109, 2267-2274, 1989.
12. Rasmussen CD, Means RL, Lu KP, May GS, Means AR. Characterization and expression of the unique calmodulin gene of *Aspergillus nidulans*. J. Biol. Chem. 265, 13767-13775, 1990.
13. May GS, Waring RB, Morris NR. Increasing *tubC*  $\beta$ -tubulin synthesis by placing it under the control of the *benA*  $\beta$ -tubulin upstream sequence causes a reduction in *benA*  $\beta$ -tubulin level but has no effect on microtubule function. Cell Motility and the Cytoskeleton 16, 214-220, 1990.
14. Ehinger A, Denison SH, May GS. Sequence, organization and expression of the core histone genes of *Aspergillus nidulans*. Mol. Gen. Genet. 222, 416-424, 1990.
15. Doshi P, Bossie CA, Doonan JH, May GS, Morris NR. The two  $\alpha$ -tubulin genes of *Aspergillus nidulans* encode divergent proteins. Mol. Gen. Genet. 225, 129-141, 1990.
16. Ledley FD, Crane AM, Klish KT, May GS. Is there methylmalonyl CoA mutase in *Aspergillus nidulans*? Biochem. Biophys. Res. Comm. 177, 1076-1081, 1991.
17. Lu KP, Rasmussen CD, May GS, Means AR. Cooperative regulation of cell proliferation by calcium and calmodulin in *Aspergillus nidulans*. Molecular Endocrinology 6, 365- 374, 1992.
18. May GS, McGoldrick CA, Holt, CL, Denison SH. The *bimB3* mutation of *Aspergillus nidulans* uncouples DNA replication from the completion of mitosis and has homology with two other yeast genes. J. Biol. Chem. 267, 15737-15743, 1992.

19. Ward PP., Lo J-Y, Duke M, May GS, Headon DR, Conneely OM. Overproduction of biologically active recombinant human lactoferrin in *Aspergillus oryzae*. *Bio/Technology* 10, 784-789, 1992.
20. Ward PP, May GS, Headon DR, Conneely OM. An inducible expression system for the production of human lactoferrin in *Aspergillus nidulans*. *Gene* 122, 219-223, 1992.
21. Denison SH, Käfer E, May GS. Mutation in the *bimD* gene of *Aspergillus nidulans* confers a conditional mitotic block and sensitivity to DNA damaging agents. *Genetics*, 134, 1085-1096, 1993.
22. Holt CL, May GS. A novel phage  $\lambda$  replacement vector that has automatic subcloning capabilities. *Gene* 133, 95-97, 1993.
23. Denison SH, May GS. Mitotic catastrophe is the mechanism of lethality for mutations that confer mutagen sensitivity in *Aspergillus nidulans*. *Mutation Res.* 304, 193-202, 1994.
24. Ellis L, Ramos P, Kirk J, Floyd C, Bender J, May G, Adams T. Computational tools for the study of the genomes of filamentous fungi. *Fungal Genetics Newsletter* 41, 35-37, 1994.
25. McGoldrick CA, Gruver C, May GS. *myoA* of *Aspergillus nidulans* encodes an essential myosin I required for secretion and polarized growth. *J. Cell Biol.* 128, 577-588, 1995.
26. Holt CL, May GS. An extragenic suppressor of the mitosis-defective *bimD6* mutation of *Aspergillus nidulans* codes for a chromosome scaffold protein. *Genetics* 142, 777-787, 1996.
27. Morris SM, Anaya P, Xiang X, Morris NR, May GS, Yu-Lee L. A prolactin- inducible T cell gene product is structurally similar to the *Aspergillus nidulans* nuclear movement protein NUDC. *Molecular Endocrinology* 11, 229-236, 1997.
28. Käfer E, May G. The *uvsF* gene region in *Aspergillus nidulans* codes for a protein with homology to DNA replication factor C. *Gene* 191, 155-159, 1997.
29. Maccheroni Jr, W, May GS, Martinez-Rossi NM, Rossi A. The *palF* gene sequence, an environmental pH response gene in *Aspergillus nidulans*. *Gene* 194, 163-167, 1997.
30. Anaya P, Evans S, Dai C, Lozano G, May GS. Isolation of the *Aspergillus nidulans sudD* gene and its human homologue. *Gene* 211, 323-329, 1998.
31. Yamashita R, May GS. Constitutive activation of endocytosis by mutation of *myoA*, the myosin I gene of *Aspergillus nidulans*. *J. Biol. Chem.* 273, 14644-14648, 1998.
32. Osharov N, May GS. Optimization of protein extraction from *Aspergillus nidulans* for gel electrophoresis. *Fungal Genetics Newsletter* 45, 38-40, 1998.
33. Jung MK, May GS, Oakley BR. Mitosis in wild-type and  $\beta$ -tubulin mutant strains of *Aspergillus nidulans*. *Fungal Genet. Biol.* 24, 146-160, 1998.
34. Osharov N, Yamashita R, Chung Y-S, May GS. Structural requirements for *in vivo* myosin I function in *Aspergillus nidulans*. *J. Biol. Chem.* 273, 27017-27025, 1998.
35. Kapoor M, Montes de Oca Luna R, Liu G, Lozano G, Cummings C, Mancini M, Ouspenski I, Brinkley BR, May GS. The *cenpB* Gene is not Essential in Mice. *Chromosoma* 107, 570-576, 1998.

36. Osmani AA, May GS, Osmani SA. The extremely conserved *pyroA* gene of *Aspergillus nidulans* is required for pyridoxine synthesis and is required indirectly for resistance to photosensitizers. *J. Biol. Chem.* 274, 23565-23569, 1999.
37. Maccheroni W Jr, May GS, Martinez-Rossi NM, Rossi A. The levels of mRNA expressed by gene *palF* of *A. nidulans* do not appear to be pH regulated. *Fungal Genetics Newsletter* 47, 72-73, 2000.
38. Yamashita RA, Oshero N, May GS. Localization of wild type and mutant class I myosin proteins in *Aspergillus nidulans* using GFP-fusion proteins. *Cell Motility and the Cytoskeleton* 45, 163-172, 2000.
39. Oshero N, May GS. Conidial germination in *Aspergillus nidulans* requires RAS signaling and protein synthesis. *Genetics* 155, 647-656, 2000.
40. Kontoyiannis DP, Lewis RE, Sagar N, May GS, Prince RA, Rolston KVI. Itraconazole-Amphotericin B antagonism in *Aspergillus fumigatus*: An E-test based strategy. *Antimicrob. Agents Chemother.* 44, 2915-2918, 2000.
41. Kontoyiannis DP, May GS. Delta-aminolevulinic acid modulates the resistance to fluconazole in a *hem1* mutant of *Saccharomyces cerevisiae*. *J. Antimicrob. Chemother.* 46, 1044-1046, 2000.
42. Oshero N, Mathew J, May GS. Polarity defective mutants of *Aspergillus nidulans*. *Fungal Genet. Biol.*, 31, 181-188, 2000.
43. Justino A, Nozawa SR, Maccheroni W, May GS, Martinez-Rossi NM, Rossi A. The *Aspergillus nidulans pyrG89* mutation alters glycosylation of secreted acid phosphatase. *Fungal Genet. Biol.*, 32, 113-120, 2001.
44. Oshero N, Kontoyiannis DP, Romans A, May GS. Resistance to itraconazole in *Aspergillus nidulans* and *Aspergillus fumigatus* is conferred by extra copies of the *Aspergillus nidulans* P-450 14 $\alpha$ -demethylase gene, *pdmA*. *J. Antimicrob. Chemother.* 48, 75-81, 2001.
45. Liu X, Oshero N, Yamashita R, Brzeska H, Korn ED, May GS. Myosin I mutants with only one percent of wild-type ATPase activity retain *in vivo* function. *Proc. Natl. Acad. Sci. USA.* 98, 9122-9127, 2001.
46. Oshero N, May GS, Albert ND, Kontoyiannis DP. Overexpression of Sbe2p, a golgi protein, results in resistance to Caspofungin in *Saccharomyces cerevisiae*. *Antimicrob. Agents Chemother.* 46, 2462-2469, 2002.
47. Oshero N, Mathew J, Romans A, May GS. Identification of conidial-enriched transcripts in *Aspergillus nidulans* using suppression subtractive hybridization. *Fungal Genet. Biol.* 37, 197-204, 2002.
48. Nozawa SR, May GS, Martinez-Rossi NM, Ferreira-Nozawa MS, Coutinho-Netto J, Maccheroni W, Rossi A. Mutation in a calpain-like protease affects the posttranslational mannosylation of phosphatases in *Aspergillus nidulans*. *Fungal Genet. Biol.* 38, 220-227, 2003.
49. Pham AS, Tarrand JJ, May GS, Lee, MS, Kontoyiannis DP, Han XY. Diagnosis of invasive mold infection by real-time quantitative PCR. *Am. J. Clin. Pathol.* 119, 38-44, 2003.
50. Tarrand JJ, Lichterfeld M, Warraich I, Luna M, Han XY, May GS, Kontoyiannis DP. Diagnosis of invasive septate mold infections. A correlation of microbiological culture and histologic or cytologic examination. *Am. J. Clin. Pathol.* 119, 854-8, 2003.

51. Kontoyiannis DP, Lewis RE, Osherov N, Albert ND, May GS. Combination of caspofungin with inhibitors of the calcineurin pathway attenuates growth *in vitro* in *Aspergillus* species. *J. Antimicrob. Chemother.* 51, 313-16 2003.
52. Liu W, Lionakis MS, Lewis RE, Wiederhold N, May GS, and Kontoyiannis DP. Attenuation of itraconazole fungicidal activity following preexposure of *Aspergillus fumigatus* to fluconazole. *Antimicrob. Agents Chemother.* 47, 3592-3597 2003.
53. Kontoyiannis DP, Lewis RE, Lionakis MS, Albert ND, May GS Raad II. Sequential exposure of *Aspergillus fumigatus* to itraconazole and caspofungin: evidence of enhanced *in vitro* activity. *Diagnostic Microbiol. Infectious Diseases.* 47, 415-419 2003.
54. Xue T, Nguyen CK, Romans A, May GS. A mitogen-activated protein kinase that senses nitrogen regulates conidial germination and growth in *Aspergillus fumigatus*. *Eukaryot. Cell.* 3, 557-560, 2004.
55. Liu, W, May GS, Lionakis MS, Lewis RE, Kontoyiannis DP. Extra copies of the *Aspergillus fumigatus* squalene epoxidase gene confer resistance to Terbinafine: Genetic approach to studying gene dose-dependent resistance to antifungals in *A. fumigatus*. *Antimicrob. Agents Chemother.* 48, 2490-2496, 2004.
56. Xue T, Nguyen CK, Romans A, Kontoyiannis DP, May GS. Isogenic auxotrophic mutant strains in the *Aspergillus fumigatus* genome reference strain AF293. *Arch. Microbiol.* 182, 346-353, 2004.
57. Tarrand JJ, Han XY, Kontoyiannis DP, May GS. *Aspergillus* hyphae in infected tissue: evidence of physiologic adaptation and effect on culture recovery. *J. Clin. Microbiol.* 43, 382-386, 2005.
58. Xiong Q, Hassan SA, Wilson WK, Han XY, May GS, Tarrand JJ, Matsuda SP. Cholesterol import by *Aspergillus fumigatus* and its influence on antifungal potency of sterol biosynthesis inhibitors. *Antimicrob. Agents Chemother.* 49, 518-524, 2005.
59. Lionakis MS, Lewis RE, May GS, Wiederhold, NP, Albert ND, Halder G, Kontoyiannis DP. Toll-deficient fruit flies as a fast, high-throughput model to study the efficacy of antifungal drugs and virulence in aspergillosis. *J. Infect. Dis.* 191, 1188-1195, 2005.
60. Nierman WC, Pain A, Anderson MJ, Wortman J, Kim HS, et al. including May GS. Genomic sequence of the pathogenic and allergenic filamentous fungus, *Aspergillus fumigatus*. *Nature* 438, 1151-1156, 2005.
61. Kim JH, Campbell BC, Mahoney N, Chan KL, May GS. Targeting antioxidative signal transduction and stress response system: control of pathogenic *Aspergillus* with phenolics that inhibit mitochondrial function. *J Appl Microbiol.* 101, 181-9, 2006.
62. Reyes G, Romans A, Nguyen CK, May GS. The novel MAP kinase MpkC of *Aspergillus fumigatus* is required for utilization of polyalcohol sugars. *Eukaryotic Cell*, 5, 1934-1940, 2006.
63. Spikes S, Xu R, Nguyen CK, Chamilos G, Kontoyiannis DP, Jacobson RH, Ejzykowicz DE, Filler SG, May GS. Gliotoxin production in *Aspergillus fumigatus* contributes to host specific differences in virulence. Submitted.

**Published and Accepted Invited Journal Articles and Reviews:**

1. May GS, Waring RB, Osmani SA, Morris NR, Denison SH. The coming of age of molecular biology in *Aspergillus nidulans*. Molecular Biology of Filamentous Fungi, Foundation for Industrial Fermentation Research, Vol. 6, 11-20, 1989.
2. May GS, Adams TH. The importance of fungi to man. Genome Research 7, 1041-1044, 1997.
3. Yamashita R, May GS. Motoring along the hyphae: molecular motors and the fungal cytoskeleton. Current Opinion in Cell Biology 10, 74-79, 1998.
4. Osherov N, May GS. *In vivo* functions of class I myosin. Cell Motility and the Cytoskeleton 47, 163-173, 2000.
5. Osherov N, May GS. Molecular Mechanisms of conidial germination. FEMS Microbiology Letters, 199, 153-160, 2001.
6. May GS, Kontoyiannis DP, Gustin MC. Mitogen activated protein kinases of *Aspergillus fumigatus*. Medical Mycology 43, S83-S86, 2005.
7. Nierman, WC, May, G, Kim, HS, Anderson, MJ, and Denning, D. What the *Aspergillus* genomes have told us. Medical Mycology 43, S3-S5, 2005.

#### **Editorials**

N/A

#### **Other Articles**

N/A

#### **Abstracts**

N/A

#### **Published and Accepted Book Chapters:**

1. Morris NR, May G, Weatherbee JA, Gambino J, Tsang L-S. Genetic and functional analysis of  $\beta$ -tubulin in *Aspergillus nidulans*. In: Dynamic Aspects of Microtubule Biology, D. Soifer, ed. Ann. N.Y. Acad. Sci., 466, 13-17, 1986.
2. May GS, Weatherbee JA, Gambino J, Tsang ML-S, Morris NR. Identification and function of  $\beta$ -tubulin genes in *Aspergillus nidulans*. UCLA Symposia on Molecular and Cellular Biology. Molecular Genetics of Filamentous Fungi, W. Timberlake, ed. ICN UCLA Symposia, Vol. 34, 1985.
3. Morris NR, May G, Weatherbee J, Tsang M, Gambino J, Doshi P. The tubulin gene family of *Aspergillus nidulans*. 3rd International Symposium on microtubules and microtubule inhibitors. Microtubules and Microtubule Inhibitors, M. DeBrabander and J. DeMey, eds. Elsevier Science Publishers, New York, NY, 1985.
4. May GS. Technology. In: Applied Molecular Genetics of Filamentous Fungi. J. Kinghorn and G. Turner, eds. Blackie Academic and Professional. Glasgow, UK, 1992.
5. May GS, Denison SH, Holt CL, McGoldrick CA, Anaya P. Molecular genetics of the *bimB* and *bimD* genes of *Aspergillus nidulans*, two genes required for mitosis. In: The genus Aspergillus: From taxonomy and genetics to industrial application. K.A. Powell, A. Renwick, and J. Peberdy eds. Plenum Publishing Corp., New York, 1994.
6. Käfer E, May GS. Towards repair pathways in *Aspergillus nidulans*. In: DNA Damage and Repair: Biochemistry, Genetics and Cell Biology. M. Hoekstra and J.A. Nickoloff, eds. Humana Press, Totowa, NJ, 1997.

**Published and Accepted Letters to the Editor**

1. Kontoyiannis DP, May GS, De Backer MD, Luyten WHML, Vanden Bossche H. Identification of Azole-Responsive Genes by Microarray Technology: Why Are We Missing the Efflux Transporter Genes? *Antimicrob. Agents Chemother.* 45, 3674-3676, 2001.
2. Kontoyiannis DP, Lewis RE, May GS, Osherov N, Rinaldi MG. *Aspergillus nidulans* is frequently resistant to amphotericin B. *Mycoses.* 45, 406-407, 2002.

**Editorships and Editorial Board Memberships:****Editorial Boards:**

Associate Editor, Fungal Genetics and Biology, 1996-present.  
 Editorial Board Member, Genetics and Molecular Biology, 1996-2002.  
 Editorial Board Member, Genetics and Molecular Research 2002-present.  
 Editorial Advisory Board Member, Molecular Microbiology 2003-2006.  
 Editorial Board Member, Applied Mycology and Biotechnology 2004-present.  
 Technical Editorial Board Member, Biotechnology 2004-present.  
 Editorial Board Member, Eukaryotic Cell 2006-2008.  
 Executive Editorial Board, Fungal Biology Reviews 2006-present.

**Refereed Manuscripts for:**

Antimicrobial Agents and Chemotherapy, Journal of Cell Biology, Journal of Cell Science, European Journal of Cell Biology, Molecular Biology of the Cell, Molecular and Cellular Biology, Genetics, Journal of Biological Chemistry, Oncogene, Molecular Genetics and Genomics, Gene, Cell Motility and the Cytoskeleton, Current Genetics, Genetics and Molecular Biology, Fungal Genetics and Biology, Molecular Microbiology, Eukaryotic Cell, Microbiology, Archives of Microbiology, Applied and Environmental Microbiology, Medical Mycology, PLoS Pathogens

**TEACHING****Formal Teaching Experience:****Courses Taught:****Baylor College of Medicine:**

Instructor, Cell Proliferation and Differentiation, Lectures on cell motility and the cytoskeleton, 1988 - 1996.

Instructor, Eukaryotic Genetics, Lectures on genetic systems of filamentous fungi, 1988 - 1991

Instructor, Cell Division, Lectures on chromosome structure, mitosis and chromosome dynamics, 1997 - 1999

Instructor, Graduate Student Seminar, Cell Biology, 1988 - 1999

Instructor, Graduate Student Seminar, Program in Cell and Molecular Biology, 1988 - 1999

Course coordinator for Cell Proliferation and Differentiation / Cell Structure and Function, 1992 - 1996.

Course coordinator for Cell Division, 1997 – 1999.

**UT GSBS:**

Instructor, GS110023 Molecular and Cellular Approaches to Human Genetics, Cell cycle lectures, 2000 – 2002

Instructor, GS210051 The Ethical Dimensions of the Biomedical Sciences, 2004 – present.

**Training Programs:**

Genes and Development, UT GSBS

Microbiology and Molecular Genetics, UT GSBS

Interdepartmental Program in Cell and Molecular Biology, Baylor College of Medicine (1987-2002)

Department of Molecular and Cellular Biology, Baylor College of Medicine (1987- present)

**Other Educational Programs:**

Teaching assistant in the Physiology Course at the Marine Biological Laboratory, Woods Hole, MA, 1981, 1983

Visiting Professor, University of Sao Paulo, Department of Biochemistry, Ribeirao Preto, Sao Paulo, Brazil, 2 weeks in May 1995

Molecular Biology Workshop and the Reproduction and Development Seminar, Department of Cell Biology

Advances in Oncology Grand Rounds, M.D. Anderson Cancer Center, Fungal infections in the new millennium: An update, Pathogenesis of fungal infections, 2/16/01.

Guest Lecturer in Molecular Mycology Course, Marine Biological Laboratory, Woods Hole, MA, 2001.

15<sup>th</sup> Congress of International Society for Human and Animal Mycology, San Antonio, TX, May 25-29, 2003.

Visiting Professor, China Agricultural University, Beijing, China, 20 hours of lectures in Molecular Genetics, Sept. 14, 2003 – Oct. 15, 2003.

Genes and Development proposal writing workshop 2003-2005. This is a workshop conducted by Sharon Dent and myself for students preparing qualifying exam proposals. The workshop consists of 2, 2-hour meetings.

Panelist for Common Exchanges program for M.D. Anderson Postdoctoral Fellows, Feb. 3, 2004.

Current Topics in Genes and Development, Spring 2006, 2007.

**Supervisory Teaching:**

**Advisory/Supervisory Committees:**

Service on thesis advisory/supervisory committees at Baylor and UT GSBS.

Current student committees:

Hailing Yang, UT GSBS Houston, Laboratory of Fernando Cabral, Integrative Biology and Pharmacology, UTHSC Houston

Todd R. Heallen, UT GSBS Houston, Genes and Development Program, Laboratory of Jill Schumacher, Department of Molecular Genetics, MDACC

Gary Riefler, UT GSBS Houston, Genes and Development Program, Laboratory of Jill Schumacher, Department of Molecular Genetics, MDACC

Brian Phillips, UT GSBS Houston, Genes and Development Program, Laboratory of John Spudich, Biochemistry and Molecular Biology, UTHSC Houston

Melissa Ramirez, UT GSBS Houston. Microbiology and Molecular Genetics, Laboratory of Michael Lorenz

Yanira Gonzalez, Department of Molecular and Cellular Biology, Baylor College of Medicine, Laboratory of Shelley Sazer, Department of Biochemistry and Molecular Biology

Past student committees:

<b>NAME</b>	<b>Department</b>	<b>Completion Date</b>	<b>Mentor</b>
Schwoebel, Eric David	Cell Biology	1992	B. Dunbar
Kuisk, Ilmar Rein	Cell Biology	Withdrew	S. Capetanaki
Miller, Patricia Ann	Cell Biology	1991	A. Means
Vanberkum, Mark Francis			
Agustine	Cell Biology	1991	A. Means
Denison, Steven Harry	Cell Biology	1993	G. May
Mcguire, Sarah Lea			
Mounger	Cell Biology	1993	G. May
Kundu, Kaushik	Pharmacol.	1993	F. Cabral
Humphrey, Mary Beth			
Pridgen	Cell Biology	1994	J. Bryan
Pu, Robert Tsun Chin	Cell Biology	1994	G. May
Allen, James Browden	Cell & Mol Biol	1994	S.Elledge
McGoldrick, Carol Anne	Cell Biology	1994	G. May
Hao, Mingming	Mol. Genetics	1995	G. Lozano
Edwards, Robert Andrew	Cell Biology	1995	J. Bryan
Holt, Cydne Leah	Cell & Mol Biol	1995	G. May
Fromm, Larry Brian	Cell Biology	1995	P. Overbeek
Gonzalez-Garay, Manuel	Pharmacol,	1996	F. Cabral
He, Xiangwei	Biochemistry	1997	S. Sazer
Lee, Heung Man	Cell Biology	1997	R. Schwartz
Dimitrov, Krassen Mitkov	Biochemistry	1998	S. Sazer
Anaya, Paul	Cell Biology	1998	G. May
Demeter, Janos	Biochemistry	1998	S. Sazer
Hughes, Timothy R.	Cell & Mol Biol	1998	V. Lundblad
Petherbridge, Lee	Cell Biology	1999	D. Roop
Hollmann, Caroline Annette	Virology	1999	J. Butel
Wang, Sung-Ling	Mol. Genetics	1999	G. Lozano
Morris, Shelli M.	Cell Biology	1999	L.-Y. Yu-Lee
Jones, William J	Cell & Mol Biol	Withdrew:	S. Elledge
Matynia, Anna	Cell Biology	2000	S. Sazer
Morris, Danna Kaye	Cell & Mol Biol	2000	V. Lundblad
Tubb, Benjamin Edward	Cell Biology	2000	J. Bryan
Wojcik, Sonja Melanie	Cell Biology	2000	D. Roop
Murphy, Kristen	Cell & Mol Biol	2001	J. Rosen
Salus, Sandra	Cell & Mol Biol	2002	S. Sazer
Leonard, Deana	Mol. Genetics	2002	R. Legerski
Abha Chandra	Mol. Genetics	2002	V. Lundblad
Jonathan Aumais	Mol. & Cell Biol	2003	L.-Y. Yu-Lee
Tao Xue	Lab. Med.	2003, M.S.	G. May
Alex Hutagalung	Biochemistry	2003	H. Epstein

Ian Cushman	Cell & Mol Biol	2004	M. Moore
Tramanh Pham	Mol. Genetics	2004 M.S.	E. Murgola
Sheila Kadura	Mol. & Cell Biol	2004	S. Sazer
Yoshihiro Torrii	Cell & Mol Biol	2005 Withdraw	S. Sazer
Michiya Nishino	Cell & Mol Biol	2006	L.-Y. Yu-Lee

**Students Directly Supervised:**

Steven H. Denison Entered in 1988, Baylor College of Medicine, Department of Cell Biology. Completed Ph.D. in spring of 1993. Thesis title: Molecular genetic analysis of the *bimD* gene of *Aspergillus nidulans*. 1996, Assistant Professor Eckerd College, St. Petersburg, FL 33711.

Sarah Lea McGuire Entered in 1988, Baylor College of Medicine, Department of Cell Biology. Completed Ph.D. in spring of 1993. Thesis title: Analysis of the cell cycle-specific regulation of the NIMA protein kinase of *Aspergillus nidulans*. 1995, Assistant Professor, Millsap College, Millsap, Miss.

Carol A. McGoldrick Entered in 1989, Baylor College of Medicine, Department of Cell Biology. Completed Ph.D. in fall of 1994. Thesis title: The *myoA* gene of *Aspergillus nidulans* encodes an essential myosin I involved in polarized growth and secretion. Clinical Pharmacology Coordinator, Elan Pharmaceuticals Technologies, Ireland

Rober Pu Entered 1990, Baylor College of Medicine, Department of Cell Biology. Completed Ph.D. in fall of 1994. Thesis title: A structure function study of the NIMA protein kinase. Pathologist, University of Michigan.

Cydne L. Holt Entered in 1989, Baylor College of Medicine, Department of Cell Biology, Graduate program in Cell and Molecular Biology. Completed Ph.D. in Jan., 1995. Thesis title: Pseudoreversion analysis of *bimD6* in *Aspergillus nidulans*. Staff Scientist, Perkin-Elmer, Applied Biosystems, Foster City, CA.

Paul Anaya Entered in 1991, Baylor College of Medicine, Department of Cell Biology. M.D./Ph.D. student. Completed Ph.D. in Aug. 1997. Thesis title: The SUDD protein of *Aspergillus nidulans* is required for chromosome condensation and defines a new family of proteins. Currently unknown.

Tao Xue Entered in 1999, UT GSBS. M.S. Sept. 2003. Currently technician at Baylor College of Medicine.

Ming Lu 2003, UT GSBS. Third 10 week rotation project.

Melissa Ramirez 2004, UT GSBS. Second 10 week rotation project.

Kristina Fox 2005, UT GSBS. Second 10 week rotation project.

Sara Spikes 2005, UT GSBS

Taylor Schoberle 2005, UT GSBS

**Postgraduates Supervised:**

Jing-Yi Lo, Ph.D. 4/10/89 - 10/31/91, Research Scientist, Life Technologies, Inc.

Yun-Shin Chung, Ph.D. 10/1/96 - 9/30/97, Postdoctoral Fellow, Washington Univ.

Roxanne Yamashita, Ph.D. 1/2/96 - 6/19/98, Programmer, National Library of Medicine.

Nir Osherov 8/1/96 - 7/1/2001, University of Tel Aviv School of Medicine, Tel Aviv, Israel.

Wei Liu, M.D., Ph.D. 01/02 – 02/04.

Juan Mosquera, Ph.D. 5/03 – 10/03. Left for personal reasons that were not work related.

Guadalupe Reyes, Ph.D. 4/04 – 3/05.

Ran Xu, Ph.D. 5/04 – 7/05.

**Visiting Research Scientists:**

Etta Käfer, Ph.D., McGill and Simon Fraser Universities, Canada, 5/90 and 5/92.

Nilce Martinez-Rossi, Ph.D., University Sao Paulo, Brazil, 12/90.

Outi Salminen, University of Helsinki, Finland, visiting student, summer 1991.

D.K. Sandhu, Ph.D., Guru Nanak dev University, India, 9/91.

Michiel Hellendoorn, Wageningen Agricultural University, The Netherlands, visiting graduate student, 1/93-6/93.

Walter Maccheroni, Jr., Department of Genetics, University of Sao Paulo, Brazil, visiting graduate student 3/94 – 8/95.

Guoqin Liu, Plant Physiology and Biochemistry, China Agricultural University, Beijing China 1/1/02 –5/1/02

**Medical and Undergraduate Students:**

Since 1988, I have had 1 to 2 summer students in the laboratory each year. This group has included both undergraduates and high school students. I was an active member of the SMART and Summer Science for Seniors program at Baylor College of Medicine.

Since moving to M.D. Anderson, I have hosted 1-3 students each summer.

**Lectureships and Visiting Professorships:**

Visiting Professor, University of Sao Paulo, Department of Biochemistry, Ribeirao Preto, Sao Paulo, Brazil, 2 weeks in May 1995

Guest lecturer for Molecular Mycology course, Marine Biological Laboratory, Woods Hole, MA, 2001

Visiting Professor, China Agricultural University, Beijing, China, 20 hours of lectures in Molecular Genetics, Sept. 14, 2003 – Oct. 15, 2003.

**Society Memberships with Offices Held:**

Sigma Xi, American Association for the Advancement of Science (AAAS), American Society for Cell Biology (ASCB), Genetics Society of America (GSA), American Society for Microbiology (ASM)

**PROFESSIONAL MEMBERSHIPS/ACTIVITIES**

**Organization of National or International Conferences:**

**Administrative Positions, Committee Memberships:**

Local organizing committee for ASCB annual meeting, Houston, TX, 1989

Organizer of *Aspergillus nidulans* Interest Group Meeting March 1991 and co-organizer spring of 1993 Asilomar, CA

Science Careers Advisors Conference, Co-chairperson of Faculty Exchange Workshop, 4/91

Co-chair Scientific Program of 18th Fungal Genetics Conference, 1995, Asilomar, Pacific Grove, CA.

Member of the International Consortium for sequencing the *Aspergillus nidulans* genome.

Scientific Committee Advances Against Aspergillosis, Sept. 2004, San Francisco, CA.

**Session Chairmanships:**

Fungal Metabolism Gordon Research Conferences, Session chair, Asexual growth and development. Holderness School, NH, 1994.

55th Annual Symposium on Fundamental Cancer Research, Maintenance of Genomic Integrity, Session Chair on Chromosomal Instability, Houston, TX, October 15-18, 2002

15<sup>th</sup> Congress of International Society for Human and Animal Mycology, San Antonio, TX, May 25-29, 2003, Co-chaired Basic Science session 1.

Society of Chemical Industry, Antifungals: Discovery and Mode of Action, Session Chair of Alternatives to Small Molecules, Churchill College, Cambridge UK, April 3-6, 2005

Second Advances Against Aspergillosis, Developing areas of *Aspergillus* physiology, Athens, Greece, Feb. 22-25, 2006

**Invitations to National or International Conferences:**

8/06 8<sup>th</sup> International Mycological Congress, Cairns Australia

4/06 8<sup>th</sup> European Congress on Fungal Genetics. Vienna Austria

2/06 Second Advances Against Aspergillosis, Athens Greece.

4/05 Society of Chemical Industry, Antifungals: Discovery and Mode of Action, Churchill College, Cambridge UK

9/04 Advances Against Aspergillosis, San Francisco, CA

6/04 Gordon Research Conferences, Cellular and Molecular Fungal Biology, Holderness School, NH

4/04 Seventh European Conference on Fungal Genetics, Copenhagen, Denmark

10/03 Chinese Mycological Society, Annual Meeting, Beijing, China

5/03 15<sup>th</sup> Congress of International Society for Human and Animal Mycology, San Antonio, TX.

4/03 Annual Meeting of the Society for Experimental Biology, Speaker, Southampton, England.

3/03 22nd Fungal Genetics Conference, Asilomar Conference Center, Pacific Grove, CA.

6/02 Mycological Society of America, Annual Meeting Speaker, Corvallis, OR.

7/00 Keynote Speaker at Summer Symposium on Model Organisms: Lessons Learned from DNA, Oklahoma State University, Stillwater, OK.

8/98 Sixth International Mycological Congress, Jerusalem, Israel.

8/98 Gordon Research Conferences, Plant and Fungal Cytoskeleton. Proctor Academy, NH.

4/98 Annual Meeting of Japan Society for Bioscience, Biotechnology and Agrochemistry, Nagoya, Japan.

11/97 A Myosin Family Reunion: Biology to Pathology, National Heart, Lung and Blood Institute, Bethesda, MD.

3/97 19th Fungal Genetics Conference, Asilomar Conference Center, Pacific Grove, CA.

8/96 The First Fungal Genome Workshop, Oklahoma State University, Stillwater, OK.

5/95 Brazilian Society of Biochemistry and Molecular Biology, XXIV Annual Meeting of SBBq in Caxambu, Brazil.

8/94 Fifth International Mycological Congress, Vancouver, British Columbia, Canada.

6/94 Gordon Research Conferences, Fungal Metabolism, Holderness School, Plymouth, NH.

4/96 Symposium on the Cell Wall and Fungal Morphogenesis, Program for the Biology of Filamentous Fungi, Texas A&M University, College Station, TX.

7/93 Gordon Research Conferences, Plant and Fungal Cytoskeleton, Proctor Academy, NH.

4/93 Federation of European Microbiological Societies and The British Mycological Society, International Symposium on The Biology of *Aspergillus*, University of Kent, Canterbury, United Kingdom.

7/89 EMBO-Alko Workshop on Molecular Biology of Filamentous Fungi, Helsinki, Finland.

8/88 International Congress of Genetics, Session Chair Fungal Genetics, Toronto, Canada .

12/86 ASCB Annual Meeting Minisymposium, Molecular Genetics of the Cytoskeleton, Washington, D.C.

4/85 UCLA Symposia, Molecular Genetics of Filamentous Fungi, Keystone Colorado.

**Seminar Invitations from Other Institutions: (since 1994)**

The University of Texas, Health Science Center at Houston, Department Microbiology and Molecular Genetics, Houston, TX, Spring 1994

Weis Center for Research, Geisinger Clinic, Danville, PA, Spring 1995

Novo Nordisk Biotech, Inc., Davis, CA, Spring 1995

University of Sao Paulo, Department of Biochemistry, Ribeirao Preto, Sao Paulo, Brazil, Spring 1995

DuPont Central Research and Development, Wilmington, DE, Fall, 1995

John H. Blaffer seminar series The University of Texas, M.D. Anderson Cancer Center. Hosted by the Department of Molecular Genetics and the Department of Biochemistry and Molecular Biology, Jan., 1996

Fox Chase Cancer Center, Philadelphia, PA, Spring, 1997

University of Georgia, Department of Botany, Athens, GA, Spring 1998

Schering-Plough Research Institute, Kenilworth, NJ, Winter 1999

The University of Texas, Health Science Center at Houston, Department Microbiology and Molecular Genetics, Houston, TX, Spring 2000

Paradigm Genetics, Inc. Raleigh, NC, Summer, 2000

Genencor International, Inc. Palo Alto, CA, Fall, 2000

Texas A & M University, Program in Genetics, College Station, TX, Fall 2000

North Carolina State University, Dept. of Plant Pathology, Raleigh, NC, Fall 2000

Eli Lilly and Company, Indianapolis, IN, Fall, 2000

Schering-Plough Research Institute, Kenilworth, NJ, Fall 2000

University of Cincinnati, College of Medicine, Cincinnati, OH, Spring 2002

National Defense Medical Center, Taipei, Taiwan, Summer 2002

University of Vermont College of Medicine, Department of Microbiology and Molecular Genetics, Burlington, VT, Fall 2002

Peking University Health Science Center, Hospital #3, Medical Mycology Unit, Beijing, China, Fall 2003

Peking University, National Laboratory of Protein Engineering and Plant Genetic Engineering, Beijing, China, Fall 2003

China Agricultural University, Department of Plant Physiology and Biochemistry, Beijing, China, Fall 2003

The University of Texas, Health Science Center at San Antonio, Department of Microbiology & Immunology, San Antonio, TX, Spring 2005

The University of Texas, Health Science Center at Houston, Department Microbiology and Molecular Genetics, Houston, TX, Spring 2005

University of Houston, Downtown, Department of Natural Sciences, Houston, TX, Fall 2006

The University of Texas, Health Science Center at San Antonio, San Antonio Center for Medical Mycology, San Antonio, TX, Fall 2006

**Other Education and Research:**

As co-director of the Cell and Molecular Biology graduate program of Baylor College of Medicine my responsibilities were many. I acted as academic advisor to first year students during the didactic phase of their education. Students with academic difficulty would report to me for guidance and additional support. I mediated conflicts between advisors and students. I also helped students that found graduate school was not their cup of tea find new directions.

Since arriving at M.D. Anderson I have formed a focus group to facilitate the investigation of mycosis, particularly aspergillosis. This is an open group that meets every month and includes participants from Laboratory Medicine, Infectious Diseases, Leukemia, Bone Marrow Transplant, Rice University and the UT Health Science Center. Members of this diverse working group have helped direct research in several areas of diagnostic development and treatment of aspergillosis.