

The University of Texas Graduate School of Biomedical Sciences at Houston

## Admissions Season

First Step Along the Way to Becoming a Biomedical Scientist. . .

The screenshot shows a Microsoft Internet Explorer browser window displaying the homepage of the University of Texas Graduate School of Biomedical Sciences at Houston. The page features a central navigation menu with hexagonal buttons for 'Visitors', 'Prospective Students', 'Current Students & Faculty', and 'Alumni'. Below this menu are logos for 'The University of Texas at Houston' and 'MD Anderson Cancer Center'. A grid of research areas is listed, including Behavioral/Systems, Cell Biology, Developmental Biology, Medical Physics, Microbiology, Molecular Biology, Neurobiology, Pathology, Pharmacology, Physiology, Reproductive Biology, Structural Biology, Toxicology, and Virology. Interdisciplinary Studies is also mentioned. To the right, there are images of a 'Graduate Record Examinations' (GRE) 'BULLETIN' (2004-05), a 'TOEFL' 'TEN LISH' book, and a 'Formal Application' form from the University of Texas. In the bottom left corner, there is a photograph of a cart with four 'UNITED STATES POSTAL SERVICE' boxes, with the word 'Admissions' handwritten on the cart.



# Benefactor News

---

## table of contents

- 2 Benefactor News
- 3 Dean's Notes  
George M. Stancel, Ph.D.
- 4 Distinguished Alumnus Address  
Bhudat Paliwal, Ph.D.
- 6 New Entering Students  
2005-2006
- 9 Article "Office of Admissions:  
Challenges and Opportunities"  
Victoria Knutson, Ph.D.
- 10 Student Awards
- 12 Special Thanks and Gratitude
- 13 Faculty Appointments
- 17 Alumni News and Updates
- 18 Alumni Reunion 2005

---

### Back Cover

Message to the Alumni:  
Joya Chandra, Ph.D.  
President 2005-2006  
GSBS Alumni Association



Fadine Jackson Roquemore, Andrea Lafont, Joyce Nagle

From its earliest beginnings, the City Federation of Women's Clubs have contributed their energy and resources to education while providing cultural enrichment for their families and themselves. Here's a little history: The National Federation of Women's Clubs was founded in 1900-1902, a time of few opportunities for women, either politically or socially. In 1914 the City Federation of Women's Clubs was founded in Houston as an affiliate with a group of 29 local, women's social groups. "The purpose of the organization was to unite women's clubs for a consolidated effort to improve the nation and the world." No small dream.

Its mission was to serve the Houston community as a benevolent, charitable, and educational association. This was achieved by furthering education—making it more available to more people through schools and school bond issues; by understanding social problems; and by acting as a volunteer organization which worked to build and strengthen things such as the public library system, free medical clinics, recreational parks, programs to attract business and industry to the communities that needed them, and to preserve natural resources. With the furtherance of these objectives, the City Federation of Women's Clubs sought to build and strengthen the American home and aid realistic efforts to world peace.

As this early, larger collection of Houston groups comprising the Federation changed, it gradually became one, much smaller organization, and recently sold its building for \$1.5M. With proceeds from the sale, The City

Federation of Women's Clubs gave financial support to over 25 worthwhile causes in Houston. The University of Texas Graduate School of Biomedical Sciences (GSBS) at Houston was selected to be a recipient. Student support seemed particularly well-suited to their original educational mission, and in 2004 **The City Federation of Women's Clubs Endowed Scholarship in the Biomedical Sciences** was established for the purpose of supporting higher education in the biomedical sciences at the Graduate School.

Over 100 years later in December of 2005, the very first graduate student was named **The City Federation of Women's Clubs Endowed Scholar in the Biomedical Sciences**. This inspired creation of Houston women Fadine Jackson Roquemore and Joyce Nagle (shown above left and right, with the scholar Andrea Lafont, center) along with others on the steering committee not shown, Gwen Seammen, Marguerite McFarland, and Gladys Stange, continues to benefit Houston, and is one of its last gifts to a beloved home town. It brings to fruition an endowment that provides for generations of scientists-in-training to come. The \$2,000-\$2,500 support generated through the endowment will recognize merit and may be used for such important necessities in a student's life as a laptop computer, business attire for interviews and meetings, scientific software and books as well as other equipment. These things mean a great deal in the life of a graduate student. It appears that the Federation is still improving the nation and the world, one student at a time.

# Dean's Notes

Higher education is going through a period of more rapid change than at any time I remember since I attended college in the 60's. Margaret Spellings, the U.S. Secretary of Education has appointed a Commission on the Future of Higher Education that is considering approaches *for-profit* institutions use. An executive vice-president of IBM states that American universities are *not* responsive to industry needs. Knowledgeable people point out that the U.S. is *falling behind* countries like India and China in its science and engineering graduates. We regularly hear that *global collaborations and interdisciplinary projects* are increasingly important to higher education's success. Buzzwords and phrases like "innovation and the economy," "innovative financing," and "innovative delivery methods" appear frequently. (I do not recall these terms from Econ 101 as a college freshman; the professor always seemed to make it simpler—the choice between guns and butter rather than trying to get someone else to pay for both for you!).

Amidst discussions of "innovative delivery," "creative financing," etcetera, it is easy to lose sight of the educational goals that I think ought to drive strategic planning, and this is where "SLO" comes into the discussion. SLO stands for **student learning outcomes**, and we will hear a lot about these in the future as they have become a focal point of educational planning, outcomes assessment, program reviews, accredita-

## Think SLO – not SLOW



tion, and I predict will become increasingly important in National Institutes of Health (NIH) training grant evaluations.

Once upon a time, I would have thought that a discussion about SLOs was silly in a graduate school because everyone knew what we were trying to do. It's simple: we teach people how to think, we produce problem solvers, and we train independent researchers and scientist educators. Few would disagree with these general principles. Unfortunately, generalized statements, no matter how appropriate, will be subject to a broad range of interpretations that can surface when people discuss specific aspects of graduate training, for example, the purpose of the candidacy exam, publication requirements for graduation, the format of the Ph.D. dissertation, and so forth. These issues become increasingly complicated as graduate training becomes more inter-

disciplinary and as the size and diversity of the faculty increase. Imagine an NIH study section discussion of a research proposal that had a terrific hypothesis, but did not list any specific aims. Every reviewer might assume that she or he knew the specific aims the investigator was planning to use to evaluate the hypothesis, but their priority scores would likely be based upon different assumptions.

I would like to see us develop and enunciate explicit SLOs to help us achieve our overall goal of insuring that every graduate leaves GSBS as a well-trained scientist. We all know our goal in a general sense, but as GSBS and our parent institutions grow in size and complexity we need to be certain that all students and faculty members have the same set of expectations and standards—then we can confidently continue to assign advisors and supervisory committees to be primarily responsible for helping all students achieve them. This does not have to be a time consuming or *slow* process, and it may only require explicitly describing what we are already doing—it would just be a SLO approach.

Best regards,

# Finding Our Way

It is a privilege to be here with you all tonight and I feel honored to be recognized as a distinguished alumnus of GSBS—an institution that has shaped my professional career and aided me in many ways. For all my professional life I have regarded my experience at GSBS with appreciation. Typically, experience is the name we give to our mistakes, but The University of Texas proved to be the notable exception in jump-starting and re-directing my life. GSBS had then, and continues today, to have a world-renowned faculty, and during these last four decades has continued to distinguish itself through its high level of education, its richly fostered research environment, and its commitment to progress in the Biomedical Sciences. All of this and more was conceived and brought about by alumni and faculty who are among the most eminent in the world. So, when I look out on this gathering, I can easily see myself interchanged with almost any one of you. I see so many who could or should just as easily be receiving this recognition. Not that I am questioning GSBS' judgment—or choice—mind you, I am just offering testament to the accomplishments of this institution. The opportunity to accept this award in this company is an honor and I do thank you for this uplifting recognition.

You know, a man is touched by many lives in his time and is aided by them in innumerable ways. For me it was the guidance, education, and most of all “examples” received from my mentors that inspired me. Truly fortune smiled on me. To be instructed by the likes of Drs. Robert Shalek, Peter Almond, Marilyn Stoval, Rodney Withers, Ronald Humphrey, Raymond Meyn and Vincent Sampiere was a great blessing for a young aspiring student. They each had strong scientific foundations, solid work ethics, impeccable moral values and they were world-renowned in their field of expertise. It seemed to me as if I had been allowed into the company of giants. Through them I found my way, but not on a road less traveled. Their footprints were there for me to follow. They gave me the tools. But to my wife I owe all else. I received the gift of her everlasting company in the corridors of Favrot Hall. No one has supported and cared for me such as she has. She even typed my thesis in spite of being surrounded by mice in Dr. Withers lab.

They say luck or chance favors the trained mind. In my life serendipity also played some role. Fate, in my case, has a capital F. I cannot say why I came to GSBS. As difficult as it is to imagine, when I was a small boy in a small village in an obscure



Distinguished Alumnus 2005-2006  
Bhudat Paliwal, Ph.D. (1973)

part of India, I did not roam the farmlands with a UT T-shirt on aspiring to the day when I would be surrounded by legions of fans screaming “hook’ em horns.” I did not start doing that until last week! My greatest hope was to be a train engine operator. Sadly, in my application for training I was found to be lacking in the skills needed and was denied. So I needed a Plan B: America and GSBS. That’s not totally accurate. When I did come to America, I WAS pursuing a project—her name was Miss Koyna Bam. Well, many projects fail due to poor planning, but they lead to new ideas and perspectives and opportunities, especially in a great country like the one we are privileged to live in. In many ways I did not come to GSBS, GSBS came to me, and opened its doors to me, and Medical Physics was a thing I never pursued until caught. There is a line in *Much Ado About Nothing* that sums up the totality of my experience:

“O what men *dare* do, what men *may* do, what men *daily* do, not knowing *WHAT* they do.”

Here was an opportunity, and I had the good sense to grab on to it. This may not be very inspirational, but it does show how sometimes, almost magically, things have a way of falling into place, and square pegs slip into round holes; not unlike the traveler in that poem of Robert Frost’s “where two roads diverge in the woods....”

I acted and I haven’t looked back. I saw the ocean of opportunity made open to me. I set sail. And, I am still on the waters, though my voyage is nearly done. So, these were the dreams of a train operator destined to become a medical physicist.

My first day in Houston was on the wings of Delta Airlines. My plane arrived late, past midnight, at the International Airport and no limo service was available. I was depressed to find the cost of taxi fare. My meager monthly budget could not support it. I appealed to the authorities that it was not my fault that the flight was late. Realizing my state, the officer asked me to wait a moment and lo and behold there was a whole big bus just for me to take me to the medical center. Total fare was four dollars. It was then I understood why they say, “Texas is a big COUNTRY” – you

ask for a screwdriver and they give you a workshop! I also discovered the cost of gasoline was 20 cents a gallon, a new VW bug was \$1,500 and a cup of coffee was a mere dime! Now a cup of coffee will cost the same as that gallon of gas...at least for the next week or so.

Once at GSBS, I had to memorize all the proteins and amino acids and learn all the A's: DNA, RNA, mRNA, as well as the mysteries of the cell cycle and the Crebb's cycle. The list goes on. I can honestly tell you that there are few people who have forgotten as much as I have. It has its upside though. I assume you are all familiar with the film, *Eternal Sunshine of the Spotless Mind*.

My squeaky clean mind notwithstanding, the core program of biological sciences did give me some insight into those famous building blocks of life: some secrets revealed—as well as more questions. But it IS those questions that keep scientific minds challenged. Life is, in many ways, figuring out what you don't know—and sometimes what you'll never know—and coming to terms with that.

GSBS schooled me to understand the significance of mapping the genome and appreciating the similarities we share with other forms of life on this planet. How connected we are and how dependent we all are on each other. In my childhood days my elders used to tell me I cannot be happy unless the people around me are happy too. I used to think that it meant belonging to a mutual admiration society! Instead, now I know better; my well-being is the well-being of all life forms, the totality of the eco-system—the environment of the entire planet. Walt Whitman put it better in his poem *Song of Myself*:

I celebrate myself, and sing myself,  
And what I assume you shall assume  
For every atom belonging to me as good belongs to you  
My tongue, every atom of my blood,  
formed from this soil, this air  
Born here of parents, born here from parents the same,  
and their parents  
...the same

I'll admit that poets sometimes have a facility with words that a physicist lacks, but it would seem that we have developed tools to exploit our planet's resources at a faster pace than nature can replenish. We are on a planet that many say faces a host of environmental problems. We need to seriously focus on the development of ways to minimize adverse practices and effects, and lay greater emphasis on conservation, nurturing vegetation and life forms, and to find a balance and harmony with nature. George Bernard Shaw very aptly said: "The reasonable man adapts to his environment. The unreasonable man makes his environment adapt to him. Therefore, all progress depends upon unreasonable men."

GSBS also prepared me in the technological applications of linear accelerators, CT, US, MRI and PET. This progress continues with IMRT, Tomotherapy, and 4D CTPE. These developments, along with numerous others, spearheaded and supported by

biomedical scientists, have contributed to the success of the National Cancer Institute and, more importantly, have led to MAJOR improvements in the early detection and treatment of cancer. Where we once had a hammer, we now have a blade. Where we once took aim from afar, we now look nearer on our foe. Work being done by Drs. Hazel, Jackson, Mohan, Smith, Starkshall, and their colleagues is truly pioneering in advancing their fields. The future of medical physics in GSBS is in good hands.

More universities need to establish graduate departments of biomedical sciences where broad-based scientific education and research can be pursued. Our education and training programs currently produce an inadequate number of biomedical scientists needed to face the challenges of tomorrow.

The explosion of new scientific knowledge, gene mapping, functional MRI, molecular imaging and computer optimization for precision therapies are increasing the biomedical scientist's role in the treatment of human diseases and improvement in quality of life. We ARE making a difference. Finally, I would like to close by addressing the oldest and newest of our discipline. As for us elder statesmen in our lingering days, I would ask you to try and remember your first days at GSBS. Think about what you saw, who impressed you, and who inspired you. Are you surprised we have come this far? I know I am. I found my way. For that I am proud, and I hope you are too; yet, be mindful of that pride when you consider:

"If we have seen further, it has been by standing on the shoulders of giants."

For you rookies, with your freshly minted minds, eager to embark on your careers, I ask you to pause for a moment and consider all you have seen and learned. I know it is more than I know. I received my degree over thirty years ago. But for just a moment, imagine that all that skill and brilliance you have is but a drop in the bucket. I do not mean to derogate, I only hope to illustrate the possibilities ahead. Consider Sir Isaac Newton's final estimate of his own epic achievement:

"I do not know what I may appear to the world; but to myself I seem to have been only like a boy playing on the seashore, and diverting myself in now and then finding a smoother pebble or a prettier shell than ordinary, while the great ocean of truth lay all undiscovered before me."

This ocean that Newton brought us to has not yet even got our feet wet. You are the pilgrims. You are the ones that will travel daily farther from the East. Always a little further, until one day, one of you perhaps, will bring us in sight of the opposite shore, narrowing the chasm and expanding our horizon. This challenge falls on you. Embrace it.

*Dr. Paliwal is Professor of Human Oncology and Medical Physics, and Director of Radiation Therapy Physics; University of Wisconsin Comprehensive Cancer Center. He is a Fellow of the International Atomic Energy Agency.*

# New entering students

**Elizabeth Anderson** - Ph.D. Molecular Pathology, B.A. 5/1/2005 University of Colorado - Boulder  
**Marc Anderson** - Ph.D. Neuroscience, B.S. 5/1/2004 University of Houston - Main Campus  
**Daniel Babcock** - Ph.D. Neuroscience, B.A. 5/1/2005 University of Delaware  
**Mark Badeaux** - Ph.D. Molecular Carcinogenesis, B.S. 5/18/2002 University of Texas at Austin  
**Elizabeth Barba** - Ph.D. Cancer Biology, B.S. 5/1/2005 St. Mary's University  
**Kedryn Baskin** - Ph.D. Toxicology, B.A. 12/21/2002 Baylor University  
**Corinne Bell** - Ph.D. Virology and Gene Therapy, B.S. 5/1/2005 Saginaw Valley State University  
**Jordan Bell** - Ph.D. Neuroscience, B.S. 5/1/2004 University of Rochester  
**Whitney Bivens** - Ph.D. Medical Physics, B.S. 5/1/2005 Texas A&M University-College Station  
**Kim Cardenas** - Ph.D. Molecular Pathology, B.S. 12/1/2004 University of Texas at San Antonio  
**Eliseo Castillo** - Ph.D. Biochemistry and Molecular Biology, M.S. 5/1/2005 Eastern New Mexico University  
**Chiao-Lin Chen** - Ph.D. Genes and Development, M.S. 12/1/2004 New York University  
**Xin Chen** - M.S. Cancer Biology, B.S. 6/1/2005 Tong Ji Medical College of Hua Zhong University of Science and Technology  
**Pai-Chun Chi** - Ph.D. Medical Physics, M.S. 4/1/2004 UT-Houston GSBS  
**Min Soon Cho** - Ph.D. Cancer Biology, M.S. 2/1/1999 Seoul National University  
**Hyun Ho Choi** - Ph.D. Cancer Biology, M.S. 2/1/1997 Korea University  
**Amanda Clark** - Ph.D. Virology and Gene Therapy, B.S. 5/1/2005 University of Arizona  
**Rene Colorado** - M.D./Ph.D. Neuroscience, B.S. 5/1/2004 University of Texas at Austin  
**Jennifer Dale** - Ph.D. Microbiology and Molecular Genetics, B.S. 5/13/2005 North Dakota State University  
**Andrew Daniele** - M.S. Cancer Biology, B.S. 5/1/2002 University of the South  
**Proleta Datta** - Ph.D. Neuroscience, M.B.B.S. 1/2/2004 Kasturba Medical College  
**Jessica De Orbeta-Cruz** - Ph.D. Cancer Biology, M.S. 5/1/2005 University of Puerto Rico Mayaguez Campus  
**Jennifer Defant** - S.M.S. Genetic Counseling, B.S. 8/1/2003 Florida State University  
**Kevin DeHoff** - Ph.D. Biomathematics and Biostatistics, B.S. 5/1/2004 Trinity University  
**Renee Dickinson** - S.M.S. Medical Physics, B.S. 5/1/2005 Stetson University  
**Yi Du** - Ph.D. Immunology, B.S. 7/1/1996 Sichuan University  
**Andrea Dural** - Ph.D. Cell and Regulatory Biology, B.S. 12/1/2004 University of Louisiana-Lafayette  
**Jesse Flynn** - Ph.D. Biochemistry and Molecular Biology, B.S. 5/15/2004 Texas A&M University-College Station  
**Kristin Foulk** - M.S. Immunology, B.S. 8/15/2003 Texas A&M University-College Station  
**Juan Gallegos** - Ph.D. Biomathematics and Biostatistics, B.S. 5/1/2005 University of Houston - Downtown  
**Shilpa Gandhi** - Ph.D. Neuroscience, B.S. 5/1/2004 Southern Methodist University  
**Jeannine Garnett** - Ph.D. Microbiology and Molecular Genetics, B.E. 11/1/2002 Durban Institute of Technology  
**Mandy Geryk** - Ph.D. Biochemistry and Molecular Biology, B.S. 5/1/2005 Texas Tech University  
**Aron Goins** - Ph.D. Biomathematics and Biostatistics, B.S. 5/1/2004 Texas A&M University-College Station  
**Fabiola Gomez** - Ph.D. Toxicology, B.S. 12/1/2004 University of Texas at El Paso  
**Jennifer Gonzalez** - Ph.D. Biochemistry and Molecular Biology, B.S. 5/1/2005 St. Mary's University  
**Brian Grabiner** - Ph.D. Immunology, B.A. 5/11/2002 SUNY College at Buffalo  
**Kristen Greathouse** - Ph.D. Molecular Carcinogenesis, M.S. 8/1/2001 Texas Woman's University  
**Josh Gregorio** - Ph.D. Immunology, J.D. 7/1/2005 University of the Pacific  
**Randala Hamdan** - Ph.D. Cancer Biology, B.S. 5/1/2004 University of North Texas  
**Troy Hammerstrom** - Ph.D. Microbiology and Molecular Genetics, B.S. 5/1/2005 Texas A&M University-College Station  
**Shirley Hammond** - Ph.D. Reproductive Biology, B.S. 5/15/2004 Angelo State University  
**Violeta Hennessey** - Ph.D. Biomathematics and Biostatistics, M.S. 5/1/2005 University of Nevada-Las Vegas  
**Rachel Hicklen** - Ph.D. Neuroscience, B.S. 5/7/2005 University of Alabama  
**Floyd Holsinger** - Ph.D. Cancer Biology, M.D. 5/12/1995 Vanderbilt University

**Ji Yeon Hong** - Ph.D. Biochemistry and Molecular Biology, M.S. 2/1/2004 Seoul National University  
**Shaoyi Huang** - Ph.D. Molecular Pathology, M.S. 12/1/2004 Wuhan University-PRC  
**JaMis Jackson** - M.S. Physiology, B.A. 5/1/2002 Rice University  
**Lori Jackson** - M.S. Biomathematics and Biostatistics, B.S. 5/1/2003 Abilene Christian University  
**Sharat Jacob Vayttaden** - Ph.D. Cell Biology, M.Sc. 8/1/2001 University of Kerala  
**Johanna James** - Ph.D. Cancer Biology, B.S. 5/1/2004 Morgan State University  
**Vaibhav Juneja** - Ph.D. Neuroscience, M.E. 5/1/2004 University of Connecticut  
**Vaibhav Kapuria** - Ph.D. Cancer Biology, M.S. 7/1/2004 All India Institute of Medical Sciences  
**Jahan Khalili** - Ph.D. Immunology, B.A. 5/19/2003 Reed College  
**Eun Young Kim** - Ph.D. Cell and Regulatory Biology, M.S. 2/2/2002 Kwangju Institute of Science and Technology  
**Tae Kon Kim** - Ph.D. Cancer Biology, M.D. 6/1/2001 Seoul National University  
**Alyssa Knisley** - S.M.S. Genetic Counseling, B.S. 5/1/2005 Miami University  
**E. Scott Kopetz** - Ph.D. Cancer Biology, M.D. 5/1/2001 Johns Hopkins University  
**Christopher Krantz** - Ph.D. Cancer Biology, B.S. 5/1/2005 Southern Ill University at Carbondale  
**John Kwon** - M.D./Ph.D. Molecular Biology, B.S. 12/18/2004 Baylor University  
**Michael Lago** - Ph.D. Biochemistry, B.S. 8/1/2004 Florida State University  
**John Lahad** - Ph.D. Cancer Biology, M.S. 8/1/2004 UT-Houston GSBS  
**Aimee Lake** - Ph.D. Cancer Biology, B.S. 7/1/2004 University of Texas at Austin  
**Stacy Langmeyer** - Ph.D. Virology and Gene Therapy, B.S. 5/1/2005 Indiana University-Purdue University at Fort Wayne  
**Susannah Lazar** - S.M.S. Medical Physics, B.S. 8/1/2005 Louisiana State University & Agricultural & Mechanical College  
**Hua Li** - Ph.D. Human and Molecular Genetics, B.S. 9/1/2005 Shanghai Jaio Tong University  
**Minjun Li** - Ph.D. Biochemistry and Molecular Biology, M.S. 7/1/2002 East China Normal University  
**Yufeng Li** - Ph.D. Virology and Gene Therapy, M.S. 3/1/2005 Shanghai Jaio Tong University  
**Zhuojing Li** - Ph.D. Biomathematics and Biostatistics, M.S. 5/1/2004 Texas State University in San Marcos  
**Qingtang Lin** - Ph.D. Human and Molecular Genetics, M.S. 6/1/2005 Joint program CUMS and Beijing Normal University  
**Ya-Chi Lin** - Ph.D. Human and Molecular Genetics, M.S. 6/1/2002 National Cheng Kung University  
**Han Liu** - Ph.D. Cancer Biology, M.Sc. 6/1/2004 University of Aberdeen  
**Qian Liu** - Ph.D. Cancer Biology, M.D. 6/1/1998 China Medical University  
**Dorothy Long** - M.S. Immunology, B.A. 8/1/1996 University of Texas at Austin  
**Alanna McDermott** - S.M.S. Medical Physics, B.S. 5/1/2003 Tulane University  
**Katharine McNamara** - M.S. Cancer Biology, B.S. 5/1/2005 Southwest Texas State University  
**William Merritt** - M.S. Cancer Biology, M.D. 5/1/2001 University of South Carolina  
**Aaron Mobley** - Ph.D. Immunology, B.S. 12/1/2004 Texas A&M University-College Station  
**Amy Monier** - Ph.D. Microbiology and Molecular Genetics, B.S. 5/1/2005 University of New Mexico  
**Audrey Nath** - M.D./Ph.D. Neuroscience, B.S. 5/14/2005 Rice University  
**Anne Netek** - Ph.D. Pharmacology, B.S. 12/1/2004 University of Kentucky-Main Campus  
**Paige Nitsch** - S.M.S. Medical Physics, B.S. 5/1/2005 Texas A&M University-College Station  
**Evan Norcom** - M.S. Microbiology and Molecular Genetics, B.A. 5/1/2004 Houston Baptist University  
**Michael Ozawa** - M.D./Ph.D. Cancer Biology, B.S. 5/1/2001 University of California at San Diego  
**Christina Papke** - Ph.D. Human and Molecular Genetics, B.S. 5/1/2005 Cedarville University  
**Vani Pariyadath** - Ph.D. Neuroscience, M.S. 6/1/2005 University of Allahabad

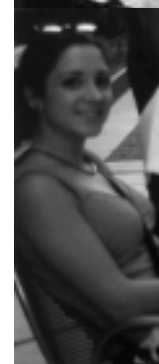


## Student-Faculty-Staff gather for a “friday afternoon club”





- Hyun Jun Park** - Ph.D. Cancer Biology, M.S. 12/1/2004 Baylor University  
**Purvi Patel** - M.S. Molecular Biology, B.A. 12/30/1998 Duke University  
**Liem Phan** - Ph.D. Cell and Regulatory Biology, B.S. 7/1/2005 University of Natural Sciences Vietnam National University  
**Prasad Phatarpekar** - Ph.D. Microbiology and Molecular Genetics, M.S. 6/1/2004 Texas State University - San Marcos  
**Christina Pichot** - Ph.D. Cancer Biology, B.S. 8/1/2003 University of Texas at Austin  
**Stephanie Planque** - Ph.D. Molecular Pathology, B.S. 6/1/1999 Universite de Technologie  
**Gerardo Ramos** - Ph.D. Toxicology, M.S. 5/11/2002 UT-Houston GSBS  
**Amy Reid** - M.D./Ph.D. Neuroscience, B.S. 5/1/2002 Stanford University  
**Christina Renneke** - M.S. Molecular Pathology, B.S. 5/1/2005 Kansas State University  
**David Reynoso** - M.D./Ph.D. Immunology, B.S. 5/1/2004 University of Texas at Austin  
**Adam Riegel** - Ph.D. Medical Physics, B.A. 5/1/2004 Vassar College  
**Kristin Roden** - M.S. Human and Molecular Genetics, B.S. 5/1/2003 Texas Woman's University  
**Tania Rodriguez Cruz** - Ph.D. Immunology, B.S. 12/1/2003 University of Puerto Rico  
**Cana Ross** - Ph.D. Microbiology and Molecular Genetics, M.S. 12/1/2004 UT-Houston GSBS  
**Joshua Rother** - M.S. Virology and Gene Therapy, B.S. 12/1/2002 University of Texas at Austin  
**Jonathon Roybal** - Ph.D. Virology and Gene Therapy, B.S. 5/1/2005 New Mexico State University  
**Daniel Ryder** - Ph.D. Toxicology, M.P.H. 8/1/2005 University of Texas HSC-Houston SPH  
**Katrina Salazar** - M.D./Ph.D. Human and Molecular Genetics, B.S. 5/1/2003 Carnegie-Mellon University  
**Erin Salo** - S.M.S. Genetic Counseling, B.A. 5/1/2005 University of Delaware  
**Keri Schadler** - Ph.D. Cancer Biology, B.S. 12/1/2004 Texas A&M University-College Station  
**Taylor Schoberle** - M.S. Immunology, B.A. 5/10/2003 Southwestern University  
**Shiraj Sen** - M.D./Ph.D. Physiology, B.A. 5/21/2005 University of Texas at Austin  
**Tushar Sharma** - M.D./Ph.D. Cell and Regulatory Biology, B.A. 5/1/2005 Duke University  
**Johnny Shen** - M.S. Cell Biology, B.A. 5/1/2003 University of Pennsylvania  
**Christopher Singh** - Ph.D. Molecular Pathology, M.S. 8/1/2005 UT-Houston GSBS  
**Nolan Smith** - Ph.D. Cancer Biology, B.S. 6/1/2005 University of Washington  
**Kipruto Soimo** - M.S. Immunology, B.S. 12/1/2005 Abilene Christian University  
**Hui Song** - Ph.D. Cancer Biology, M.S. 7/1/1994 Beijing Medical University  
**Ryan Sowell** - M.S. Immunology, B.S. 5/1/2005 University of Northern Colorado  
**Sara Spikes** - M.S. Immunology, B.S. 12/1/2004 Sam Houston State University  
**Amy Stanford** - S.M.S. Genetic Counseling, B.S. 5/1/2005 Texas A&M University-College Station  
**Chun-hui Su** - Ph.D. Human and Molecular Genetics, M.S. 6/1/2004 National Chiao Tung University  
**Ying-Wen Su** - Ph.D. Cancer Biology, M.S. 6/1/2002 Taipei Medical University  
**Cathy Sullivan** - S.M.S. Genetic Counseling, B.S. 5/1/1997 University of Texas at Austin  
**Brian Taylor** - Ph.D. Medical Physics, B.S. 5/1/2005 Union University  
**Jeremy Tchaicha** - Ph.D. Cancer Biology, B.S. 5/1/2002 Lafayette College  
**Catherine Tipps** - S.M.S. Genetic Counseling, B.A. 6/1/2002 Stanford University  
**Yoshikazu Tsunashima** - Ph.D. Medical Physics, M.S. 7/1/2003 University of Tsukuba  
**Deon Uffort** - M.S. Toxicology, B.S. 12/15/2003 University of Houston - Downtown  
**Hilary Vass** - Ph.D. Medical Physics, M.S. 5/1/2005 UT-Houston GSBS  
**Bryce Vincent** - Ph.D. Neuroscience, B.S. 5/1/2003 Schreiner University  
**Shanzhi Wang** - Ph.D. Biochemistry and Molecular Biology, M.S. 6/1/2003 Southeast University  
**Jimetra Watson** - Ph.D. Cancer Biology, B.S. 3/1/2005 Prairie View A&M University  
**Sharon Way** - Ph.D. Microbiology and Molecular Genetics, 5/1/2005 Rice University  
**Lauren Williamson** - Ph.D. Virology and Gene Therapy, B.S. 5/1/2005 Texas A&M University-College Station  
**Charmaine Wilson** - M.S. Human and Molecular Genetics, B.S. 5/1/1999 Bennett College of North Carolina  
**Cheng Han Wu** - M.D./Ph.D. Cancer Biology, B.S. 5/23/2005 Southern Methodist University  
**Yujane Wu** - Ph.D. Cancer Biology, B.S. 5/1/2005 Texas A&M University-College Station  
**Lin Yang** - Ph.D. Biomathematics and Biostatistics, M.S. 6/1/2005 Purdue University  
**Hsin-Hsien Yeh** - Ph.D. Radiation Biology, M.S. 8/1/2002 National Yang-Ming University  
**Ming Yin** - Ph.D. Cancer Biology, M.S. 6/1/2003 Nanjing University  
**Hui Zhang** - Ph.D. Molecular Pathology, M.S. 7/1/2003 Nanjing University  
**Yang Zhou** - Ph.D. Biochemistry, B.S. 6/1/2005 Nanjing University  
**Maya Zigler** - Ph.D. Cancer Biology, B.S. 5/1/2004 Tel Aviv University







## The Office of Admissions: Challenges and Opportunities

by Victoria P. Knutson, Ph.D., Assistant Dean of Admissions

Over the past few years, I have found that there appears to be an aura of mystery surrounding the review of applications for admission to GSBS. With applications in hand, how can the Admissions Committee prospectively gauge which applicants will be successful in a scientific career? What do we look for? Are we really able to identify that “spark” that predicts future success as a scientist? I would like to take this opportunity to tell you a little about how the Admissions Committee pursues the challenge to admit diverse, highly-qualified students into GSBS—and solicit your input.

Currently, the Admissions Committee evaluates the applicant’s GPA and GRE scores, personal statement, and three letters of recommendation. All of these are utilized in the evaluation process, and no single index is used as justification for a recommendation of either admission or rejection of the application.

The GPA and GRE scores are an index of how well the applicant will do in their didactic coursework; the scores provide no information on performance in the lab. Since GSBS does require that the PhD students complete some coursework with grades of A or B, use of GPAs and GRE scores in evaluation of applications has some merit.

The personal statement is, in my estimate, the most important part of the application. This provides insight into the “scientific maturity” of the applicant. Can the applicant describe the “big picture” of the research going on in the labs in which he worked? How does the applicant’s research fit into this big picture? Was the applicant acting simply as a pair of hands in the lab (describing only the techniques that he’s familiar with), or was he intellectually engaged? Did the applicant do his homework by identifying faculty in whose research he has an interest? Last, but not least, the personal statement provides information about the writing skills of the applicant. The assessment of the personal statement is very subjective. It is curious, though, how easy it is to differentiate between a good one and an uninformative one. The Admissions Committee is remarkably consistent in evaluating this index of quality.

Interpretation of the letters of recommendation is usually very useful, especially when they are obtained from faculty members who have supervised the applicant in the laboratory. It is always interesting to see if the description of the research from the faculty member matches the description from the applicant! This point alone provides insight into the research acumen of the applicant. The Committee as a whole develops considerable skill in reading between the lines of the letters of recommendation to glean information about the applicant’s ability to survive and flourish in the demanding environment of the lab. Has the Committee ever rejected an applicant with a 3.8 GPA, and 1260 GRE but with culpable letters of recommendation? Yes! It is important to the Committee that admitted applicants are not only able to successfully complete the didactic coursework, but also that their interpersonal skills, drive, and motivation are appropriate for success in the research arena.

Is the Admissions Committee successful in identifying highly qualified applicants? What’s the track record? Let’s start with those students who have graduated. Based on the Alumni Survey conducted in 1998 (mounted on the GSBS web site at <http://gsbs.uth.tmc.edu/alumni/surv98.html>), GSBS graduates indicated that their graduate studies prepared them for a career in science, that they are finding jobs that utilize their scientific skills, and that they find their jobs to be fulfilling. What about enrolled students? I would anticipate that if the Admissions Committee were making poor choices, we would see a high level of attrition—due either to poor academic performance or student dissatisfaction with the program. However, our enrolled students drop out of GSBS at rates below the published rates of most other graduate schools in the US. So, our students complete the degree programs, and our graduates are happy with the education they received at GSBS. Overtly, these data suggest that the Admissions Committee (and, of course, the faculty members) is doing their job.

But, what do you think? You who are Faculty are in the heat of it, working with our graduate students on a daily basis. Should the Admissions Committee change tack? Modify the admissions process? Recommend the admission of more students? Fewer? Students: You are on the receiving end of the process. Do you feel you were adequately prepared for graduate school? As you view your fellow-students, do you feel the Admissions Committee did a good job? Should the Committee place more (or less) emphasis on any of the specific aspects of the application documents? Alumni, we have heard from most of you in the Alumni Survey. But, do you feel, as suggested in the survey, that you were well-served by GSBS? Are there aspects of the admissions process that should be re-evaluated? I would really like to hear from you. The job of the Admissions Committee is a difficult one: while there are some aspects of the application that are quantifiable, the most important components rely on subjective evaluation. Please give me your insights on how we should tweek, nudge or totally overhaul the process. You can reach me at

Victoria.P.Knutson@uth.tmc.edu, or 713-500-9860.

Regards,

Vicki





American Legion Auxiliary, Department of Texas

For 30 years the American Legion Auxiliary, Department of Texas, has been providing fellowships to GSBS students doing their studies in cancer research. Since that time over \$1,000,000 has been raised through labor intensive yet 'entertaining' activities such as steak dinners, fun runs, bingo, dances, bake sales, and so on to support 85 scholarships, renewable up to 3 years. The current award is \$5,000 and the recipients for 2005-2006 are:

**Student**

Nicole Bohnenstiehl  
Jennifer Carter  
Sanaz Khanbolooki  
Shannon Kidd  
Sabine Lange  
John Latham  
Jennifer O'Daniel  
Melissa Olson  
Athanasia Panopoulos  
Robert Rebhun, D.V.M.  
Regina Weaks

**Advisor**

Dr. Timothy McDonnell  
Dr. Subrata Sen  
Dr. David McConkey  
Dr. Kent Christopherson, II  
Dr. Karen Vasquez  
Dr. Sharon Dent  
Dr. Lei Dong  
Dr. Juan Fueyo-Margareto  
Dr. Stephanie Watowich  
Dr. Isiah J. Fidler  
Dr. David Johnson

The City Federation of Women's Clubs Endowed Scholarship in the Biomedical Sciences

In 2004 the City Federation of Women's Clubs endowed a Scholarship in the Biomedical Sciences for an exceptional GSBS student who is working in an area vital to the biomedical sciences and of particular current significance in that year's national research arena. Each year the Dean of the GSBS will define the area of research for this scholarship and for 2005-2006 the scholarship recognizes research in the area of molecular genetics of human disease. The current award is \$2,000 and the recipient for 2005-2006 is:



**Student**

Andrea Lafont

**Advisor**

Dr. Dianna Milewicz

McGovern Scientific Poster Competition

In its 24<sup>th</sup> year, the McGovern Scientific Poster Competition now plays an integral part in The University of Texas Health Science Center at Houston Research Day. Awards are based on research excellence and presentation and were judged this year by a Faculty Committee including Drs. Carol Etzel, Yong-Jian Geng, Thomas Goka, Khader Hasan, Peng Huang, Xin Lin, Srikanth Mahankali, Sankar Maity, Prahlad Ram, Rajagopal Ramesh, Georgios Rassidakis, and Judith Smith. Awards are \$400, \$300, and \$200 for First, Second, and Third place, respectively. Top posters include:

<b>Ph.D. Pre-candidacy Category</b>	Christopher Singh	1 <sup>st</sup>
	Dr. Chinnaswamy Jagannath	
	Dunyapom Trachootham	2 <sup>nd</sup>
	Dr. Peng Huang	
<b>Post-candidacy</b>	Vaibhav Juneja	3 <sup>rd</sup>
	(1 <sup>st</sup> year, undecided)	
	Amir Mohsenin	1 <sup>st</sup>
	Dr. Michael Blackburn	
	Ann Griffith	2 <sup>nd</sup>
	Dr. Ellen Richie	
	Jennifer Carter	3 <sup>rd</sup>
	Dr. Subrata Sen	

# ent awards

## Sam Taub and Beatrice Burton Fellowship in Vision Disease Award

In 2004 the \$2,000 Sam Taub and Beatrice Burton Fellowship in Vision Disease Award was established by Mary Wright and her sister, Joanna Ross, in honor of their grandfather and great aunt, for a graduate student to support excellence in the research area of eye and sight-related problems, and the genetics and potential therapies behind these life-altering health concerns. The recipient for 2005-2006 is:



<b>Student</b>	<b>Advisor</b>
Xueyao Fu	Dr. William Klein

# distinction

## Alfred G. Knudson Outstanding Dissertation Award

In 1997 an annual Alfred G. Knudson Outstanding Dissertation Award was established by M. D. Anderson Cancer Center to honor this distinguished individual and former GSBS dean. The \$1,000 award is given to a graduate of the GSBS whose dissertation is selected as the most outstanding in cancer research. This year's recipient is:

<b>Student</b>	<b>Advisor</b>
Ke Zhang, Ph.D.	Dr. Sharon Dent



## Presidents' Research Scholars

Through generous funding from President James T. Willerson, The University of Texas Health Science Center at Houston, and President John Mendelsohn, The University of Texas M. D. Anderson Cancer Center, recognition is given to advanced GSBS students who have demonstrated excellence in research. The applications are reviewed by a committee consisting of past, present and future presidents of the Graduate Faculty, including Dr. Gary Rosenfeld, Dr. Raymond Meyn, and Dr. Magnus Hook. This year's Presidents' Research Scholars each received a cash award of \$5,000 and are shown here in left to right:

<b>Student</b>	<b>Advisor</b>
Jae-II Park	Dr. Pierre McCrea
Lance Shaner	Dr. Kevin Morano
Brian Corbin	Dr. William Margolin
Hannah Wingate	Dr. Khandan Keyomarsi

## Committee on the Status of Women

The Committee on the Status of Women provides a \$200 Award for travel to a scientific research meeting. The GSBS recipient for 2005-2006 is:

<b>Student</b>	<b>Advisor</b>
Joanna Koch	Dr. Guillermina Lozano

# merit

## Minority Faculty Association Awards

### **Jones-Wharton Award** (Cancer Research):

Jheri Dupart      Dr. Wei Zhang, Advisor

### **L. D. Mehta Memorial Award** (Infectious Diseases Research):

Christopher Singh      Dr. Chinnaswamy Jagannath, Advisor

### **Minority Faculty Association Scholarship:**

Diana Medrano      Dr. Juan Fueyo-Margareto, Advisor



## SPECIAL thanks and gratitude

Dean Stancel presents Kay Onstead with yellow roses at the formal dedication of the new **Onstead Auditorium** in the George and Cynthia Mitchell Basic Sciences Research Building. Mrs. Onstead and her family's significant gift provided for this wonderful space used by graduate students, The University of Texas M. D. Anderson faculty, guest speakers, The University of Texas Health Science Center activities and Baylor College of Medicine.

### OUR BENEFACTORS

**Cancer Answers Inc.**  
**Rena D'Souza**  
**Millicent Goldschmidt**  
**Russell and Diana**  
**Hawkins**  
**Geoffrey Ibbott**  
**The Ralph H. and Ruth J.**  
**McCullough Foundation**  
**The John P. McGovern**  
**Foundation**  
**Peggy O'Neill**  
**John Powers**  
**Melva Ramsay**  
**Doris Ross**  
**Naruya Saitou**  
**Schissler Foundation**  
**Douglas Stickle**  
**Deidre Vedder**  
**Jean and Roberta Worsham**  
**Wei Yu**

Robert Chamberlain  
 Zhoufeng Chen  
 Paul Chiao  
 Paul Cizdziel  
 Richard Clark  
 Gilbert Cote  
 Carolynn Crossman  
 Stephen Daiger  
 Paul Darlington  
 Peter Davies  
 Carmen Dessauer  
 Donna DiPaolo  
 Herbert Dupont  
 Julie Ellerhorst  
 Vicky Estrera  
 Cindee Ewell  
 Frank Fasullo, Sr.  
 Isaiah Fidler & Margaret  
 Kripke  
 Jeffrey Frost  
 Gregory Fuller  
 Yasuhide Furuta  
 Brenda Gaughan  
 Thomas Gegeny  
 Eugene Gerner  
 Alberta Glassman  
 Siew-Ging Gong  
 Erin Grothey  
 Yi-Zhong Gu  
 Jacqueline Hecht  
 David Hewett-Emmett  
 Roger Hewitt  
 Stephen Hewitt  
 Beng & Daisy Ho  
 Kenneth Hogstrom  
 Glenn Housholder  
 Jen-Tzaw Huang  
 Mien-Chie Hung  
 Robert Hurlbert  
 Jessica Indrigo  
 Gary Johannig  
 David Johnson  
 Faye Johnson  
 Quita Jones Cruciger  
 Kathleen Jones  
 Louie Kafka  
 Norm Karin

Rodney Kellems  
 Robert Kirken  
 William Klein  
 James Knierim  
 Bruce Kone  
 John Kopchick  
 Ralf Krahe  
 Joshua Krumenacker  
 Jian Kuang  
 Richard Kulmacz  
 John Kurland  
 Anand & Sandhya Lagoo  
 Dorrie Lamb  
 Richard Lane  
 J. Jack Lee  
 George Leventon  
 Li Li  
 Jan Liang & Gary Gallick  
 Xin Lin  
 Yun Lin  
 Carol Linsner  
 Pu Liu  
 Karin Loftin  
 Reuben Lotan  
 Kathryn Louie  
 Wendy Mars  
 Angabin Matin  
 Tom & Nancy Matney  
 Beth Maxwell  
 Pierre McCrea  
 Jeanie McMillin  
 Eileen Meinert  
 Richard Meisch  
 Mercedes Meyer  
 Raymond Meyn  
 Shirlette Milton  
 Radhe Mohan  
 Kevin Morano  
 Debra Moss  
 Emanuel Murgola  
 Shahla Nader-Eftekhari  
 Steven Nadler  
 Ponnada Narayana  
 Jennifer Newcomb Fernandez  
 Sarah Noblin  
 Steven Norris  
 Myra Patchen

Gabrielle Pate  
 Deborah Pearson  
 Betty Petrie  
 Thomas Poorman  
 Heidemarie Porter  
 Janet Price  
 Potu Rao  
 Ellen Richie  
 Thomas Roesel  
 Isaac Rosen  
 Maribelis Ruiz  
 Jeffrey Safran  
 Barbara Sanborn  
 Jagannadha Sastry  
 Stanley Schultz  
 Robert Shalek  
 Bartlett Sheinberg  
 Ann-Bin Shyu  
 Malcolm Skolnick  
 Anil Sood  
 Cheryl Spitzenberger  
 Roger Stafford  
 George Starkschall  
 Karen Storthz  
 James Strong  
 James Swaby  
 Heinrich Taegtmeier  
 Filemon Tan  
 Ming Tan  
 Ba-Bie Teng  
 Lawrence Thompson  
 Stephen Tomasovic  
 Janet Travis  
 Ah-Lim Tsai  
 William Walker  
 Kishor Wasan  
 Catherine Wicklund  
 John Woodhouse II  
 Kendra Woods-Francis  
 Willy Wriggers  
 Youping Xiao  
 Pamela Yang  
 Edward Yeh  
 Dihua Yu  
 Jing-Ren Zhang  
 Wei Zhang  
 Leonard Zwelling

### OUR DONORS

Sandeep Agarwal  
 John Antolak  
 Frances Arrighi  
 Greg Aune  
 Ali Azhdarinia  
 Michael Badzioch  
 Michelle Barton  
 Arthur Bergh  
 James Bjork  
 Paul Borchardt  
 Carol Blanchard  
 Valentine Boving  
 Joan Breuer-McHam  
 Ivone Bruno  
 Joan and Bill Butcher  
 Carolyn Cannon  
 Daniel Carson  
 Linda Carter



Pierre McCrea, Ph.D. (right), outgoing Faculty President gifts Stephen Daiger, Ph.D., incoming President for 2005-2006 with the gavel of authority.

## Changing of the Guard



Dean Stancel presents Menashe Bar-Eli, Ph.D., with a glass plaque noting his service as director of the Cancer Biology Program for the Graduate School.

## Faculty Appointments 2005-2006

### NEW REGULAR MEMBERS

Lynne V. Abruzzo  
Associate Professor  
Hematopathology  
M. D. Anderson Cancer Center  
M.D., Ph.D., University of Chicago, 1986, 1984  
Research interests: chronic lymphocytic leukemia (CLL); gene expression profiling; cancer cytogenetics

Brad A. Amendt  
Associate Professor  
Environmental and Genetic Medicine  
Texas A&M University, Institute of Biosciences and Technology  
Ph.D., University of Iowa, 1994  
Research interests: gene expression mechanisms controlling embryonic development; protein interactions; molecular basis of genetic defects; tooth development; transcriptional regulation

Hesham M. Amin  
Assistant Professor  
Hematopathology  
M. D. Anderson Cancer Center  
M.D., Cairo University Faculty of Medicine, 1982  
Research interests: signal transduction; apoptosis; cell cycle; cytokines; molecular targets

Michael S. Beauchamp  
Assistant Professor  
Neurobiology and Anatomy  
UT-Houston Medical School  
Ph.D., University of California, San Diego, 1997  
Research interests: functional magnetic resonance imaging (fMRI) of human cognition and perception; visual motion; multisensory integration

A. Sam Beddar  
Associate Professor  
Radiation Physics  
M. D. Anderson Cancer Center  
Ph.D., University of Wisconsin-Madison, 1990  
Research interests: patient dosimetry; respiratory-gated radiotherapy for GI cancers

Luc M. Bidaut  
Associate Professor  
Imaging Physics  
M. D. Anderson Cancer Center  
Ph.D., Université de Liège, 1991  
Ph.D., Université de Caen, 1992  
Research interests: advanced biomedical imaging; multidimensional imaging; multimodality imaging; image segmentation; image registration; image-guided therapy; interventional planning; quantitative imaging; positron emission tomography; molecular imaging; scientific visualization

### REAPPOINTMENT WITH HIGHEST COMMENDATION

Dr. Michael Blackburn  
Dr. Gary Gallick  
Dr. Randy Johnson  
Dr. Mien-Chie Hung  
Dr. Bradley McIntyre  
Dr. Steven Norris  
Dr. Henry Strobel

### REAPPOINTMENT WITH COMMENDATION

Dr. Michelle Barton	Dr. Raymond Meyn, Jr
Dr. Eric Boerwinkle	Dr. Dianna Milewicz
Dr. Gilbert Cote	Dr. Janet Price
Dr. Peter Davies	Dr. Ellen Richie
Dr. Pramod Dash	Dr. Stephen Ullrich
Dr. William Dowhan	Dr. Edgar Walters
Dr. Elizabeth Grimm	Dr. Jack Waymire
Dr. William Mattox	

Oliver Böglér  
Associate Professor  
Neurosurgery  
M. D. Anderson Cancer Center  
Ph.D., Ludwig Institute for Cancer Research, 1991  
Research interests: molecular and cellular biology of gliomas; signal transduction; adaptor proteins; receptor tyrosine kinase regulation; glial transformation; regulation of DNA methylation; response to chemotherapeutics; cancer genetics

Sangdun Choi  
Assistant Professor  
Neurobiology/Anatomy  
UT Houston-Medical School  
Ph.D., Texas A & M University, 1997  
Research interests: signal transduction; Toll-like receptors; G protein coupled receptors; immunology; functional genomics; gene expression; RNA interference

Julie A. Ellerhorst  
Assistant Professor  
Experimental Therapeutics  
M. D. Anderson Cancer Center  
M.D., Baylor College of Medicine, 1984  
Ph.D., UT Houston-GSBS, 1998  
Research interests: autoimmunity as a means to control kidney cancer; the role of nitric oxide in melanoma biology; promotion of melanoma by metabolic hormones

Randa El-Zein  
Assistant Professor  
Epidemiology  
M. D. Anderson Cancer Center  
M.D., University of Alexandria, 1984  
Ph.D., University of Texas Medical Branch, 1997  
Research interests: gene-environment interaction; molecular epidemiology; genetic instability; DNA damage; molecular cytogenetics; HPRT gene mutation assay; DNA repair; susceptibility genotypes

Gregory N. Fuller  
Professor  
Pathology  
M. D. Anderson Cancer Center  
Ph.D., UT Houston-GSBS, 1983  
M.D., Baylor College of Medicine, 1987  
Research interests: brain tumor; molecular neuropathology; tissue microarray; genomics

Michael J. Galko  
Assistant Professor  
Biochemistry/Molecular Biology  
M. D. Anderson Cancer Center  
Ph.D., University of California-San Francisco, 1999  
Research interests: molecular genetics of tissue repair; *Drosophila* genetics; cell migration; cell signaling; signal transduction

Michel Gilliet  
Assistant Professor  
Immunology and Melanoma Medical Oncology  
M. D. Anderson Cancer Center  
M.D., University of Zurich, 1995  
Research interests: DC-vaccination for cancer; plasmacytoid dendritic cells (PDC) in immunity; PDC in autoimmunity and cancer

Thomas Guerrero  
Assistant Professor  
Radiation Oncology  
M. D. Anderson Cancer Center  
M.D., Ph.D., University of California-Los Angeles, 1997, 1994  
Research interests: radiation oncology; image registration; radiation physics; pulmonary function

Dennis P.M. Hughes  
Assistant Professor  
Pediatrics - Research  
M. D. Anderson Cancer Center  
Ph.D., Yale University, 1995  
M.D., Yale University Medical School, 1996  
Research interests: cell signaling; small molecule inhibitors; ERBB family members (EGFR, Her-2, Her-4, etc.); nuclear trafficking of receptors; osteosarcoma; Ewing Sarcoma; clinical monitoring

Lin Ji  
Associate Professor  
Thoracic and Cardiovascular Surgery  
M. D. Anderson Cancer Center  
Ph.D., University of Nebraska-Lincoln, 1993  
Research interests: functional characterization of novel tumor suppressor genes in vitro and in vivo; development of the recombinant adenoviral vector, non-viral vector, and nanoparticle-mediated molecular therapy for lung cancer and other human cancers; functional genomics and proteomics studies for characterization and identification of biomarkers and cancer signature proteins for early detection and diagnosis of lung cancer; and development of human lung cancer mouse models for understanding lung cancer biology and evaluating cancer intervention and prevention therapeutics

Faye M. Johnson  
Assistant Professor  
Thoracic/Head and Neck Medical Oncology  
M. D. Anderson Cancer Center  
M.D., UT Houston-Medical School, 1996  
Ph.D., UT Houston-GSBS, 1996  
Research interests: signal transduction; tyrosine kinase inhibition; Src; EphA2; novel therapeutics

Larry W. Kwak  
Professor and Chair  
Lymphoma/Myeloma  
M. D. Anderson Cancer Center  
M.D., Northwestern University Medical School, 1982  
Ph.D., Northwestern University Graduate School, 1984  
Research interests: tumor immunology; cancer vaccines; adoptive T-cell therapy; lymphoma and myeloma

Krishna V. Komanduri  
Assistant Professor  
Blood and Marrow Transplantation  
M. D. Anderson Cancer Center  
M.D., University of Minnesota Medical School, 1991  
Research interests: human T cell immunology; thymopoiesis; regulatory T cell biology; immunity to human herpesviruses; adoptive cellular therapy

Shoudan Liang  
Professor  
Biostatistics/Applied Mathematics  
M. D. Anderson Cancer Center  
Ph.D., The University of Chicago, 1986

Research interests: DNA sequences analysis; protein-binding DNA motif; microarrays probes design; mathematical modeling of immune systems; cancer vaccine; histo-compatibility antigens

Craig D. Logsdon  
Professor  
Cancer Biology  
M. D. Anderson Cancer Center  
Ph.D., University of California-Berkeley, 1981  
Research interests: physiology; pancreas; cell biology

Karen H. Lu  
Associate Professor  
Gynecologic Oncology  
M. D. Anderson Cancer Center  
M.D., Yale University School of Medicine, 1991  
Research interests: endometrial carcinogenesis; clinical cancer genetics

Anshu B. Mathur  
Assistant Professor  
Plastic and Reconstructive Surgery  
M. D. Anderson Cancer Center  
Ph.D., Duke University, 2001  
Research interests: cell and tissue engineering; nanotechnologies; tissue regeneration; biomaterials; atomic force microscopy (AFM); cell nanomechanics; total internal reflection fluorescence microscopy (TIRFM) and imaging of cell adhesions; biologically-derived polymers in medicine

Joseph H. McCarty  
Assistant Professor  
Cancer Biology  
M. D. Anderson Cancer Center  
Ph.D., University of California, Santa Barbara, 1998  
Research interests: cerebrovascular disease; angiogenesis; cell adhesion and signaling; blood-brain barrier; brain cancer and metastasis

Willem W. Overwijk  
Assistant Professor  
Melanoma Medical Oncology  
M. D. Anderson Cancer Center  
Ph.D., The George Washington University, 2000  
Research interests: cancer vaccines; cancer immunotherapy; cancer immunology; T cell biology

Hui-Lin Pan  
Professor  
Anesthesiology/Pain Medicine  
M. D. Anderson Cancer Center  
M.D., Qingdao Medical College, 1982  
Ph.D., Tongji Medical University, 1991  
Research interests: mechanisms of chronic pain; regulation of ion channels in sensory neurons and synaptic transmission in the spinal cord and brain; hypothalamic control of sympathetic nervous system

Georgios Z. Rassidakis  
Assistant Professor  
Hematopathology  
M. D. Anderson Cancer Center  
M.D., University of Patras, 1992  
Ph.D., University of Athens, 2003  
Research interests: mechanisms of lymphomagenesis; signal transduction pathways; apoptosis; cell cycle; gene therapy targeting; biology and prognosis of Hodgkin and non-Hodgkin lymphomas

Kevin D. Ridge  
Associate Professor  
Center for Membrane Biology  
Department of Biochemistry and Molecular Biology  
UT-Houston Medical School  
Ph.D., University of Pittsburgh, 1989  
Research interests: visual phototransduction; mechanisms of HIV-1 infection; G-protein coupled receptors; heterotrimeric G-proteins; high-resolution NMR of activated GPCR/G-protein complexes

Sabrina M. Ronen  
Associate Professor  
Experimental Diagnostic Imaging  
M. D. Anderson Cancer Center  
Ph.D., The Weizmann Institute of Science, 1991

Research interests: magnetic resonance spectroscopy (MRS); magnetic resonance imaging (MRI); molecular imaging; noninvasive detection of oncogenic transformation; noninvasive detection of response to targeted therapies

Maria A. Schumacher  
Assistant Professor  
Biochemistry/Molecular Biology  
M. D. Anderson Cancer Center  
Ph.D., Oregon Health Sciences University, 1995  
Research interests: structural biology; crystallography; DNA partition/segregation; transcription regulation; nucleic acid-binding proteins

Charles F. Streckfus  
Professor  
Diagnostic Sciences  
UT-H Dental Branch  
D.D.S., University of Maryland School of Dental Surgery, 1978  
Research interests: cancer; aging; salivary function

Xiaoping Sun  
Assistant Professor  
Laboratory Medicine  
M. D. Anderson Cancer Center  
M.D., Zhejiang Medical University, 1984  
Ph.D., University of Nijmegen and Shanghai Institute of Cell Biology, 1994  
Research interests: cancer biology; leukemogenesis; molecular target; oncogene; apoptosis; proliferation

Howard D. Thames, Jr.  
Professor  
Biostatistics & Applied Mathematics  
M. D. Anderson Cancer Center  
Ph.D., Rice University, 1970  
Research interests: application of applied mathematics in cancer research; including problems involving the responses of cells and tissues to ionizing radiation; and the description of metastatic frequency

Stephen K. Tyring  
Professor  
Dermatology  
UT-Houston Medical School  
M.D., UT-Medical Branch, 1983  
Ph.D., Texas Tech University, 1979  
Research interests: viral oncology; viral immunology; human papillomaviruses (HPV); human herpesviruses (HHV); interactions between these viruses, HIV and local immunity; genetic resistance to oncogenic HPV

Johannes E. A. Wolff  
Professor  
Pediatrics (Neuro-Oncology)  
M. D. Anderson Cancer Center  
M.D., University of Mainz, 1985  
Research interests: preclinical models to test novel treatments; clinical trials to improve survival and quality of life of children and adolescents with poor prognostic diseases; pharmacokinetics; choroid plexus tumors

Kwong-Kwok Wong  
Associate Professor  
Gynecologic Oncology  
M. D. Anderson Cancer Center  
Ph.D., The Chinese University of Hong Kong, 1990  
Research interests: gene expression; molecular genetics of low-grade tumors; biomarker discovery; bioinformatics; genomics; DNA methylation

Yang Xia  
Assistant Professor  
Biochemistry and Molecular Biology  
UT-Houston Medical School  
M.D., Hunan Medical University, 1992  
Ph.D., UT-Houston GSBS, 1998  
Research interests: molecular basis of cardiovascular diseases

Xinping Zhao  
Assistant Professor  
Ophthalmology and Visual Science  
Ph.D., University of Georgia, 1992

Patrick A. Zweidler-McKay  
Assistant Professor  
Pediatrics  
M. D. Anderson Cancer Center  
M.D., Ph.D., Temple University School of Medicine, 1997  
Research interests: leukemogenesis; molecular therapeutics; mouse models; retrovirus

## NEW ASSOCIATE MEMBERS

---

Bijan Arjomandy  
Assistant Professor  
Radiation Physics  
M. D. Anderson Cancer Center  
Ph.D., University of Arizona, 1990  
Research interests: proton therapy dose calculation

Kit-Sing Au  
Assistant Professor  
Pediatrics (Medical Genetics)  
UT-H Medical School  
Ph.D., Baylor College of Medicine, 1992  
Research interests: tumor suppressor genes structure and function; genotype phenotype correlation; modifier genes; gene and disease association study; gene-gene interaction; gene-environment interaction; neural tube defects

Kirstin F. Barnhart  
Assistant Professor  
Veterinary Sciences  
M. D. Anderson Cancer Center  
D.V.M., Texas A&M University, 1993  
Ph.D., Texas A&M University, 2004  
Research interests: animal models of human disease; cancer biology; organotypic keratinocyte culture; comparative pathology; dermatopathology; cytopathology

M. Gabriela Bowden  
Research Assistant Professor  
Center for Extracellular Matrix Biology  
Texas A&M University – Institute of Biosciences and Technology  
Ph.D., UT-Houston GSBS, 1999  
Research interests: Bacterial adhesins and toxins; bacterial virulence; animal models; protein structure and ligand binding; protein-protein interactions

Kent A. Gifford  
Instructor  
Radiation Physics  
M. D. Anderson Cancer Center  
Ph.D., UT Houston-GSBS, 2004  
Research interests: treatment planning QA and commissioning; brachytherapy; Monte Carlo methods; deterministic radiation transport; radiation dosimetry

Carlos Gonzalez Lepera  
Adjunct Professor  
Experimental Diagnostic Imaging  
M. D. Anderson Cancer Center  
Ph.D., Instituto Balseiro and Centro Atomico Bariloche (Argentina), 1983  
Research interests: production of radioisotopes; targetry; radiochemistry; production of radiopharmaceuticals; radiation detectors; design of automated equipment for radiopharmaceutical production

Khader Hasan  
Assistant Professor  
Diagnostic & Interventional Imaging  
UT-Houston Medical School  
Ph.D., University of Utah, 2000  
Research interests: quantitative MRI methods; diffusion tensor imaging; computational MRI; clinical applications

Richard L. Holmes  
Associate Professor  
Diagnostic Imaging Physics  
M. D. Anderson Cancer Center  
Ph.D., La Salle University, 2002  
Research interests: picture archival and communication systems (PACS); medical digital imaging; diagnostic imaging quality assurance/quality control; information technology; medical informatics; PACS workstation ergonomics; radiation safety

Research interests: human genetics; corneal development; corneal diseases; zebrafish and mouse models; transgenics

Vahn A. Lewis

Associate Professor  
Neurobiology and Anatomy  
UT-Houston Medical School  
Pharm.D., University of California, 1971  
Ph.D., University of Iowa, 1976  
Research interests: mechanisms of pain and analgesia; neurophysiology; functional neuroanatomy

Srikanth Mahankali

Assistant Professor  
Imaging Physics  
M. D. Anderson Cancer Center  
M.D., Osmania Medical College, 1987  
D.N.B., The Nizam's Institute of Medical Sciences, 1996  
Research interests: functional magnetic resonance imaging (fMRI); central nervous system; neuro-oncology

Maurie Markman

Professor  
Vice President for Clinical Research  
Clinical Research  
M. D. Anderson Cancer Center  
M.D., New York University School of Medicine, 1974  
Research interests: ovarian cancer; new drug development in the management of gynecologic malignancies

Dragan Mirkovic

Assistant Professor  
Radiation Physics  
M. D. Anderson Cancer Center  
Ph.D., State University of New York at Stony Brook, 1993  
Research interests: numerical methods for radiation transport; numerical methods for image registration; computational physics; medical physics computational infrastructure

Shahla Nader-Eftekhari

Professor  
Internal Medicine (Endocrinology) and Obstetrics,  
Gynecology & Reproductive Sciences  
UT-Houston Medical School  
M.D., University of Leeds, 1970  
Research interests: endocrinology/reproductive endocrinology

Joe C. Ontiveros

Assistant Clinical Professor  
UT-Houston Dental Branch  
Restorative Dentistry and Biomaterials  
D.D.S., UT-San Antonio Dental School, 1997  
Research interests: oral biomaterials; mechanical properties; color; adhesion; curing lights; bleaching; esthetic dentistry

Rade D. Paravina

Faculty Associate  
Restorative Dentistry and Biomaterials  
UT-Houston Dental Branch  
D.D.S., University of Niš, Serbia, 1988  
Ph.D., University of Niš, Serbia, 2000

Research interests: optical properties of dental materials; color; translucency; gloss; visual color matching; esthetic dentistry; prosthodontics

Joyce E. Rundhaug

Assistant Professor  
Science Park/Research Division  
M. D. Anderson Cancer Center  
Ph.D., University of Hawaii at Manoa, 1989  
Research interests: mouse skin carcinogenesis; malignant progression; metastasis; matrix metalloproteinases; lipoxigenases

Kishore Shetty

Associate Professor  
Restorative Dentistry  
Director, Medically Complex Patient Clinic  
UT-H Dental Branch  
D.D.S., University of Bombay, 1994  
Research interests: oral oncology; oral medicine; interaction of oral and systemic diseases; salivary physiology; dental implants

Melissa B. Strassberg

Clinical Instructor  
Obstetrics, Gynecology & Reproductive Sciences  
UT-Houston Medical School  
M.S., University of Pittsburgh, Graduate School of Public Health, 2002  
Research interests: genetic counseling; prenatal

Ramesh C. Tailor

Assistant Professor  
Radiation Physics Outreach  
M. D. Anderson Cancer Center  
Ph.D., Ohio University, 1983  
Research interests: medical physics, quality assurance, credentialing, brachytherapy

Raymond L. Warner

Associate Professor  
Neurobiology and Anatomy  
UT-Houston Medical School  
Ph.D., University of California, 1970  
Research interests: gross anatomy

Michael J. Wassler

Senior Research Scientist  
Center for Cardiovascular Biology/Atherosclerosis Research  
UT Houston-Medical School  
Ph.D., Uppsala University, 1992  
Research interests: stem cell differentiation; ubiquitinylation; early development; cardiomyogenesis

Michael Yafi

Assistant Professor  
Pediatrics  
UT-Houston Medical School  
M.D., University of Damascus, 1992  
Research interests: growth hormone; pediatric endocrinology

X. Ronald Zhu

Associate Professor  
Radiation Physics  
M. D. Anderson Cancer Center  
Ph.D., University of Utah, 1989  
Research interests: clinical applications of imaging guided therapy (cone beam CT and on-board imager); clinical implementation of proton therapy; improving IMRT delivery efficiency; IMRT dosimetry

## *In memory. . .*



### **Laurence D. Etkin, Ph.D. 1945-2006**

Originally from Philadelphia, Pennsylvania, Dr. Etkin became a Faculty member of GSBS in 1984 and was a full professor in the Department of Molecular Genetics at The University of Texas M. D. Anderson Cancer Center since 1992. We are deeply saddened by the untimely death of this fine scholar, teacher and mentor.



### **Marvin Magnus Romsdahl, M.D., Ph.D. 1930-2006**

A long time resident of Houston, Texas, Dr. Romsdahl was a well-known cancer surgeon and educator for more than 30 years at The University of Texas M. D. Anderson Cancer Center in Houston and GSBS Alumnus and Faculty member since 1967. Dr. Romsdahl combined his surgery skills and strong interest in laboratory research with a zeal for teaching students pursuing advanced degrees.



## Peter Seferian, Ph.D. (1991) In-Reach Mentor

I am currently working in intellectual property as a patent agent and liaison [at Lexicon Genetics]. A patent agent is generally a scientist or engineer who now does patent prosecution. Patent prosecution is the process of obtaining patent protection. After years at the bench, I learned that if you don't own an idea, you can't raise money on it, and without money your idea is dead in the water. Liaison means that I spend a good deal of time with the scientists [who have the original idea] as a scientist in scientific discussions and meetings, doing data analysis and teaching the dark art of classic lab techniques.

I think a quote by Martina Horner, President of Radcliffe College, is as good as any. She once said, *What is important is to keep learning, to enjoy challenge, and to tolerate ambiguity. In the end there are no certain answers.* But I would add *plow around it.*

In graduate school we learn to think and to learn on our own. These are powerful tools for any field and for everyday life—use them early and often and don't let ambiguity or challenges stop you, enjoy them for the mental challenges they are. But if you found a big rock in the middle of your field that you couldn't remove, would you give up plowing or plow around it? There is a way around, over or under most challenges—find it.



## GSBS Then - 1981

Photo of Greg Fuller, GSBS student hosting a teacher in-service day at Houston's Stratford High School. Today, Gregory Fuller, M.D., Ph.D., (1983) is a Professor of Pathology at UT-M. D. Anderson Cancer Center.



## Alumni Updates

**Sharon Beresford**, Ph.D. (2001) newly registered patent agent in intellectual property law for Mannkind Corporation, Valencia, CA.

**Paul Cizdziel**, Ph.D. (1987) retired from Invitrogen and now senior scientist with Riken Genome Science Center in Yokohama, Japan.

**Matt Lewin**, M.D., Ph.D. (1999) quoted in the *NY Times* about his fossil hunting expedition in the Gobi Desert. Splits his time between emergency medicine departments at Stanford University and University of California at San Francisco—*Scoop* 9/30/05

**Pierrette Lo**, M.S. (2002), new publicity chair, following Tom Gegeny, M.S. (1997) for the Southwest Chapter of the American Medical Writers Association. She announces the 2006 chapter conference in Austin, TX in May (<http://www.amwasouthwest.org/Events/2006-austin/2006-austin.htm>).

**Patricia Fults Maness (Tidwell)**, Ph.D. (1972) going strong as professor in the department of biochemistry and biophysics at The University of North Carolina.

**Leta Nutt**, Ph.D. (2002) now at Duke University, is 1<sup>st</sup> author of a paper on the cover of *Cell* scientific journal, October 7, 2005, v. 123, Issue 1.

**Gena Pixley**, Ph.D. (2004) weds Jason Mitchell (GSBS).

**Robert Rodgers**, M.S. (2005) new post: deputy chief, radiation protection division and USAF Radioisotope Committee Secretariat.

**Yoli Sanchez**, Ph.D. (1993) moves to Dartmouth Medical School as Associate Professor.

**Aurora Seminara**, Ph.D. (2005) is assistant medical director at Health Science Communications and Health Science Center for Continuing Medical Education in NYC.

**Jay Vivian**, Ph.D. (1999) and Carolyn Foster, M.S. (1998) recently added a baby girl to their family.

**Cathy Wicklund**, M.S. (1993) new post at Northwestern University, and president-elect of the National Society of Genetic Counselors.





**Alumni Reunion**

Linda Bachinski  
 Donna Badgwell  
 Sol Bobst  
 Yanis Bumber  
 Molly Bray  
 Joan Breuer-McHam  
 Ivone Bruno  
 Joya Chandra  
 Melinda Chi  
 Paul Chiao  
 Nathan Childress  
 Jennifer Fernandez  
 Myriam Fornage  
 Lovely Fotedar  
 Hui Gao  
 Thomas Gogeny  
 Thomas Goka  
 Joe Grant  
 Diane Hammond  
 James Jabbur  
 Edward Jackson  
 Catherine Jett  
 Auinash Kalsotra  
 Sayee Anakk  
 Ann Killary  
 Deana Leonard  
 Michael Leslie  
 Xin Lin  
 Karin Loftin  
 Steven Lott  
 Joy Marshall  
 Marya McCarty  
 Nael McCarty  
 Shirlette Milton  
 Bay Van Nguyen  
 Karen Niederreither  
 Bhudatt Paliwal  
 Madhu Purewal  
 Yongshen Ren  
 Maribelis Ruiz  
 Eleni Maniatis Salicru  
 Alex Sandoval  
 Jijiu Shen  
 Cynthia Skinner-Debord  
 James Smith  
 Carmen Tellez  
 Ben Thomas  
 Chad Wayne  
 Patricia Wong  
 Kendra Woods  
 Jianhua Yang  
 Pamela Yang  
 Donghoon Yoon

In memoriam:  
 Marvin Romsdahl  
 Sue Keeling Malloy

Howdy Y'all,

Just finished — rodeo season in Houston, and what better than to round up some of the latest developments at the GSBS. Before I get too far, I do want to mention the wonderful Alumni Reunion hosted last November, complete with music, in the George and Cynthia Mitchell Basic Sciences Research Building, new home for the GSBS. (Find your reunion photos at <http://gsbs.utth.tmc.edu/alumni/reunions.html>). We honored Bhudatt Paliwal, Ph.D. (1973) as the GSBS Distinguished Alumnus for 2005-2006. Dr. Paliwal brought us an extraordinary tale of his journey from a small village in India to a position of note in the world of medical physics radiation dosimetry and imaging.



In January we said farewell to immediate past-president Steven Lott, Ph.D. (1997), who has gone on to head a brand new lab at the University of Florida Health Science Center-Jacksonville. Steve continues his loyalty to GSBS with willingness to help us host the first-ever locality-based alumni gathering, this year in the Palo Alto area—think fine California dining. More about this later—watch for a Save-the-Date postcard for the evening of May 20, 2006. Thanks to you Steve, and thanks to our California on-site partners, Patty Wong, Ph.D. (2001) and David Voehringer (1998) who are helping us to organize the evening. Thank you, Steve, for your many efforts as president and for your vision of a cross-country network that will support the GSBS in many ways, and grow collegial, professional, and personal connections.

Speaking of support, it was good to have Kendra Woods, Ph.D. (1995) be elected vice president/treasurer during the Reunion—she's got her work cut out for her. And, speaking of the future, I would like to see a way that the remarkable resource of GSBS Alumni be utilized, in some fashion, to inform and assist current GSBS students with their career potential—perhaps through a career day. Stay tuned, and please consider in the meantime, signing on to be an In-Reach mentor. I welcome your thoughts via [jchandra@mdanderson.org](mailto:jchandra@mdanderson.org).

A handwritten signature in cursive script, appearing to read "Joya Chandra".

Joya Chandra, Ph.D. (1998)  
President, 2005-2006  
GSBS Alumni Association

Newsletter

Editor: Linda Carter

Graphic Design: Jeannice Theriot

Photography: Linda Carter, Ester Fant,

THE UNIVERSITY *of* TEXAS  
GRADUATE SCHOOL *of* BIOMEDICAL  
SCIENCES *at* HOUSTON

---

PO Box 20334  
Houston, Texas 77225-0334

Address Service Requested