

CURRICULUM VITAE

BIOGRAPHICAL

Name: Zhou Wang, Ph.D.

Business Address: University of Pittsburgh
Shadyside Medical Center
Urology Research G-40
5200 Centre Avenue
Pittsburgh, PA 15232

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EDUCATION AND TRAINING

UNDERGRADUATE:

| <i>Dates Attended</i> | <i>Name and Location of Institution</i> | <i>Degree Received and Year</i> | <i>Major Subject</i> |
|-----------------------|---|---------------------------------|----------------------|
| 1978-1983 | University of Science and Technology China, Hefei, PRC | BS | Molecular Biology |

GRADUATE:

| <i>Dates Attended</i> | <i>Name and Location of Institution</i> | <i>Degree Received and Year</i> | <i>Major Professor and Discipline</i> |
|-----------------------|--|---------------------------------|---------------------------------------|
| 1983-1984 | Shanghai Institute of Biochemistry, Shanghai, PRC | Graduate Student | Biochemistry |

POST-GRADUATE:

| <i>Dates Attended</i> | <i>Name and Location of Institution</i> | | <i>Name of Program Director and Discipline</i> |
|-----------------------|--|-----|--|
| 1984-1990 | University of Pittsburgh Pittsburgh, Pennsylvania, USA | PhD | Thesis advisor: Dr. Michael M Becker Molecular Biology |
| 1990 - 1994 | Department of Embryology Carnegie Institution of Washington Baltimore, Maryland, USA | | Post-doc Fellow Advisor: Dr. Donald D. Brown Molecular Endocrinology |

APPOINTMENTS AND POSITIONS

ACADEMIC:

| <i>Years Inclusive</i> | <i>Name and Location of Institution or Organization</i> | <i>Title</i> |
|------------------------|---|--|
| 2006 – Present | Department of Urology University of Pittsburgh School of Medicine Pittsburgh, Pennsylvania | Professor w/tenure and Director of Urological Research |
| 2009 – Present | UPMC Chair in Urological Research | UPMC Chair |
| 2006 – Present | Prostate and Urologic Cancer Program University of Pittsburgh Cancer Institute | Co-Director and Member |
| 2007 - Present | Cellular and Molecular Pathology [CMP] And Molecular Pharmacology (Since 2008) Training Program University of Pittsburgh | Member |
| 2007 – Present | Department of Pharmacology University of Pittsburgh School of Medicine Pittsburgh, Pennsylvania | Professor |
| 2007 – Present | Department of Pathology University of Pittsburgh School of Medicine Pittsburgh, Pennsylvania | Professor |
| 2003 – 2006 | Department of Urology, Molecular Pharmacology Northwestern University Medical School Chicago, IL | The O'Connor Family Research Professor |
| 2002 – 2006 | Department of Urology, Molecular Pharmacology Northwestern University Medical School Chicago, IL | Associate Professor with with Tenure; |
| 1995 – 2002 | Department of Urology, Molecular Pharmacology Northwestern University Medical School Chicago, IL | Assistant Professor |
| 1995 - 2006 | Lurie Cancer Center, Northwestern University Medical School Chicago, IL | Member |

MEMBERSHIPS IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

| | |
|----------------|--|
| 1995 - Present | Active member, American Association for Cancer Research |
| 1995 - Present | Member, The Endocrine Society |
| 1996 - Present | Member, Society for Basic Urologic Research (SBUR) |
| 2003 – 2007 | Treasurer, Society for Basic Urologic Research (SBUR) |
| 2010 | Vice President, Society for Basic Urologic Research (SBUR) |

SCIENTIFIC JOURNAL REVIEW

Cancer Research
Clinical Cancer Research
Journal of Urology
Urology
Prostate
Journal of Andrology
Analytical Biochemistry.
Neoplasia
Bioscience Journal/BioMed Central (BMC)

HONORS

| <i>Title of Award</i> | <i>Year</i> |
|---|-------------|
| CUSBEA Finalist | 1983 |
| Recipient of an Alexander I. Newman Award | 1996 |
| Recipient of an Edwin Beer Award from the New York Academy of Medicine | 1996 - 1998 |
| Recipient of a Junior Faculty Research Award from the American Cancer Society | 1996 - 1999 |
| Recipient of a CaP CURE Competitive Research Award | 1996 - 1997 |
| Recipient of SBUR/Merck Young Investigator Award | 1998 |
| Recipient of Jian-Ping Wu Award from Chinese Urology Society | 2002 |
| NIH/NIDDK MERIT Award | 2006 |

PUBLICATIONS

Refereed Publications:

1. **Wang, Z.** and Becker, M. M. Selective visualization of gene structure with ultraviolet light. *Proc Natl Acad Sci U S A*, 85: 654-658, 1988.
2. Becker, M. M. and **Wang, Z.** B----A transitions within a 5 S ribosomal RNA gene are highly sequence-specific. *J Biol Chem*, 264: 4163-4167, 1989.
3. Becker, M. M. and **Wang, Z.** Origin of ultraviolet damage in DNA. *J Mol Biol*, 210: 429-438, 1989.
4. Becker, M. M., **Wang, Z.**, Grossmann, G., and Becherer, K. A. Genomic footprinting in mammalian cells with ultraviolet light. *Proc Natl Acad Sci U S A*, 86: 5315-5319, 1989.
5. **Wang, Z.** and Brown, D. D. A gene expression screen. *Proc Natl Acad Sci U S A*, 88: 11505-11509, 1991.
6. **Wang, Z.** and Brown, D. D. Thyroid hormone-induced gene expression program for amphibian tail resorption. *J Biol Chem*, 268: 16270-16278, 1993.
7. St Germain, D. L., Schwartzman, R. A., Croteau, W., Kanamori, A., **Wang, Z.**, Brown, D. D., and Galton, V. A. A thyroid hormone-regulated gene in *Xenopus laevis* encodes a type III iodothyronine 5-deiodinase. *Proc Natl Acad Sci U S A*, 91: 7767-7771, 1994.
8. Brown, D. D., **Wang, Z.**, Furlow, J. D., Kanamori, A., Schwartzman, R. A., Remo, B. F., and Pinder, A. The thyroid hormone-induced tail resorption program during *Xenopus laevis* metamorphosis. *Proc Natl Acad Sci U S A*, 93: 1924-1929, 1996.
9. Furlow, J. D., Berry, D. L., **Wang, Z.**, and Brown, D. D. A set of novel tadpole specific genes expressed only in the epidermis are down-regulated by thyroid hormone during *Xenopus laevis* metamorphosis. *Dev Biol*, 182: 284-298, 1997.

10. **Wang, Z.**, Tufts, R., Haleem, R., and Cai, X. Genes regulated by androgen in the rat ventral prostate. *Proc Natl Acad Sci U S A*, *94*: 12999-13004, 1997.
11. Zhu, N. and **Wang, Z.** An assay for DNA fragmentation in apoptosis without phenol/chloroform extraction and ethanol precipitation. *Anal Biochem*, *246*: 155-158, 1997.
12. Zhu, N., Pewitt, E. B., Cai, X., Cohn, E. B., Lang, S., Chen, R., and **Wang, Z.** Calreticulin: an intracellular Ca⁺⁺-binding protein abundantly expressed and regulated by androgen in prostatic epithelial cells. *Endocrinology*, *139*: 4337-4344, 1998.
13. Pewitt, E. B., Haleem, R., and **Wang, Z.** Adrenomedullin gene is abundantly expressed and directly regulated by androgen in the rat ventral prostate. *Endocrinology*, *140*: 2382-2386, 1999.
14. Zhu, N. and **Wang, Z.** Calreticulin expression is associated with androgen regulation of the sensitivity to calcium ionophore-induced apoptosis in LNCaP prostate cancer cells. *Cancer Res*, *59*: 1896-1902, 1999.
15. Kundu, S. D., Kim, I. Y., Yang, T., Doglio, L., Lang, S., Zhang, X., Buttyan, R., Kim, S. J., Chang, J., Cai, X., **Wang, Z.**, and Lee, C. Absence of proximal duct apoptosis in the ventral prostate of transgenic mice carrying the C3(1)-TGF-beta type II dominant negative receptor. *Prostate*, *43*: 118-124, 2000.
16. Tufts, R., Cyriac, J., and **Wang, Z.** Androgen regulation of the largest subunit of RNA polymerase II in the rat ventral prostate. *J Steroid Biochem Mol Biol*, *75*: 43-50, 2000.
17. Cai, X., Haleem, R., Oram, S., Cyriac, J., Jiang, F., Grayhack, J. T., Kozlowski, J. M., and **Wang, Z.** High fat diet increases the weight of rat ventral prostate. *Prostate*, *49*: 1-8, 2001.
18. Dadras, S. S., Cai, X., Abasolo, I., and **Wang, Z.** Inhibition of 5alpha-reductase in rat prostate reveals differential regulation of androgen-response gene expression by testosterone and dihydrotestosterone. *Gene Expr*, *9*: 183-194, 2001.
19. Dadras, S. S., Cook, W. S., Yeldandi, A. V., Cao, W. Q., Rao, M. S., **Wang, Z.**, and Reddy, J. K. Peroxisome proliferator-activated receptor alpha-dependent induction of cell surface antigen Ly-6D gene in the mouse liver. *Gene Expr*, *9*: 173-181, 2001.
20. Jiang, F., Yang, L., Cai, X., Cyriac, J., Shechter, I., and **Wang, Z.** Farnesyl diphosphate synthase is abundantly expressed and regulated by androgen in rat prostatic epithelial cells. *J Steroid Biochem Mol Biol*, *78*: 123-130, 2001.
21. Calvo, A., Abasolo, I., Jimenez, N., **Wang, Z.**, and Montuenga, L. Adrenomedullin and proadrenomedullin N-terminal 20 peptide in the normal prostate and in prostate carcinoma. *Microsc Res Tech*, *57*: 98-104, 2002.
22. Cyriac, J., Haleem, R., Cai, X., and **Wang, Z.** Androgen regulation of spermidine synthase expression in the rat prostate. *Prostate*, *50*: 252-261, 2002.
23. Zhang, Q., Haleem, R., Cai, X., and **Wang, Z.** Identification and characterization of a novel testosterone-regulated prominin-like gene in the rat ventral prostate. *Endocrinology*, *143*: 4788-4796, 2002.
24. Abasolo, I., Yang, L., Haleem, R., Xiao, W., Pio, R., Cuttitta, F., Montuenga, L. M., Kozlowski, J. M., Calvo, A., and **Wang, Z.** Overexpression of adrenomedullin gene markedly inhibits proliferation of PC3 prostate cancer cells in vitro and in vivo. *Mol Cell Endocrinol*, *199*: 179-187, 2003.
25. Jiang, F. and **Wang, Z.** Identification of androgen-responsive genes in the rat ventral prostate by complementary deoxyribonucleic acid subtraction and microarray. *Endocrinology*, *144*: 1257-1265, 2003.
26. Saporita, A. J., Zhang, Q., Navai, N., Dincer, Z., Hahn, J., Cai, X., and **Wang, Z.** Identification and characterization of a ligand-regulated nuclear export signal in androgen receptor. *J Biol Chem*, *278*: 41998-42005, 2003.
27. Xiao, W., Zhang, Q., Jiang, F., Pins, M., Kozlowski, J. M., and **Wang, Z.** Suppression of prostate tumor growth by U19, a novel testosterone-regulated apoptosis inducer. *Cancer Res*, *63*: 4698-4704, 2003.
28. Abasolo, I., **Wang, Z.**, Montuenga, L. M., and Calvo, A. Adrenomedullin inhibits prostate cancer cell proliferation through a cAMP-independent autocrine mechanism. *Biochem Biophys Res Commun*, *322*: 878-886, 2004.
29. Grayhack, J. T., Smith, N. D., Ilio, K., Wambi, C., Kasjanski, R., Crawford, S. E., Doll, J. A., **Wang, Z.**, Lee, C., and Kozlowski, J. M. Pigment epithelium-derived factor, a human testis epididymis secretory product, promotes human prostate stromal cell growth in culture. *J Urol*, *171*: 434-438, 2004.

30. Jiang, F. and **Wang, Z.** Gadd45gamma is androgen-responsive and growth-inhibitory in prostate cancer cells. *Mol Cell Endocrinol*, *213*: 121-129, 2004.
31. Jiang, F. and **Wang, Z.** Identification and characterization of PLZF as a prostatic androgen-responsive gene. *Prostate*, *59*: 426-435, 2004.
32. Oram, S., Jiang, F., Cai, X., Haleem, R., Dincer, Z., and **Wang, Z.** Identification and characterization of an androgen-responsive gene encoding an aci-reductone dioxygenase-like protein in the rat prostate. *Endocrinology*, *145*: 1933-1942, 2004.
33. Eigl, B. J., Eggener, S. E., Baybik, J., Ettinger, S., Chi, K. N., Nelson, C., **Wang, Z.**, and Gleave, M. E. Timing is everything: preclinical evidence supporting simultaneous rather than sequential chemohormonal therapy for prostate cancer. *Clin Cancer Res*, *11*: 4905-4911, 2005.
34. Gonzalez-Moreno, O., Calvo, A., Joshi, B. H., Abasolo, I., Leland, P., **Wang, Z.**, Montuenga, L., Puri, R. K., and Green, J. E. Gene expression profiling identifies IL-13 receptor alpha 2 chain as a therapeutic target in prostate tumor cells overexpressing adrenomedullin. *Int J Cancer*, *114*: 870-878, 2005.
35. Eggener, S. E., Stern, J. A., Jain, P. M., Oram, S., Ai, J., Cai, X., Roehl, K. A., and **Wang, Z.** Enhancement of intermittent androgen ablation by "off-cycle" maintenance with finasteride in LNCaP prostate cancer xenograft model. *Prostate*, *66*: 495-502, 2006.
36. Oram, S., Cai, X., Haleem, R., Cyriac, J., and **Wang, Z.** Regulation of calcium homeostasis by S100RVP, an androgen-regulated S100 protein in the rat ventral prostate. *Prostate*, *66*: 768-778, 2006.
37. Xiao, W., Jiang, F., and **Wang, Z.** ELL binding regulates U19/Eaf2 intracellular localization, stability, and transactivation. *Prostate*, *66*: 1-12, 2006.
38. Cochrane, D. R., **Wang, Z.**, Muramaki, M., Gleave, M. E., and Nelson, C. C. Differential regulation of clusterin and its isoforms by androgens in prostate cells. *J Biol Chem*, *282*: 2278-2287, 2007. *PMID: 17148459*
39. Hahn, J., Xiao, W., Jiang, F., Simone, F., Thirman, M. J., and **Wang, Z.** Apoptosis induction and growth suppression by U19/Eaf2 is mediated through its ELL-binding domain. *Prostate*, *67*: 146-153, 2007. *PMCID: PMC2801832*
40. Jiang, F., Ai, J., Xiao, W., and **Wang, Z.** FB1, an E2A fusion partner in childhood leukemia, interacts with U19/EAF2 and inhibits its transcriptional activity. *Cancer Lett*, *253*: 265-272, 2007. *PMCID: PMC1989770*
41. Kim, Y. A., Xiao, D., Xiao, H., Powolny, A. A., Lew, K. L., Reilly, M. L., Zeng, Y., **Wang, Z.**, and Singh, S. V. Mitochondria-mediated apoptosis by diallyl trisulfide in human prostate cancer cells is associated with generation of reactive oxygen species and regulated by Bax/Bak. *Mol Cancer Ther*, *6*: 1599-1609, 2007. *PMCID: PMC2805823*
42. Nelius, T., Filleur, S., Yemelyanov, A., Budunova, I., Shroff, E., Mirochnik, Y., Aurora, A., Veliceasa, D., Xiao, W., **Wang, Z.**, and Volpert, O. V. Androgen receptor targets NFkappaB and TSP1 to suppress prostate tumor growth in vivo. *Int J Cancer*, *121*: 999-1008, 2007. *PMCID: PMC2810747*
43. Oram, S. W., Ai, J., Pagani, G. M., Hitchens, M. R., Stern, J. A., Eggener, S., Pins, M., Xiao, W., Cai, X., Haleem, R., Jiang, F., Pochapsky, T. C., Hedstrom, L., and **Wang, Z.** Expression and function of the human androgen-responsive gene ADI1 in prostate cancer. *Neoplasia*, *9*: 643-651, 2007. *PMCID: PMC1950434*
44. Saporita, A. J., Ai, J., and **Wang, Z.** The Hsp90 inhibitor, 17-AAG, prevents the ligand-independent nuclear localization of androgen receptor in refractory prostate cancer cells. *Prostate*, *67*: 509-520, 2007. *PMCID: PMC2810394*
45. Xiao, W., Zhang, Q., Habermacher, G., Yang, X., Zhang, A. Y., Cai, X., Hahn, J., Liu, J., Pins, M., Doglio, L., Dhir, R., Gingrich, J., and **Wang, Z.** U19/Eaf2 knockout causes lung adenocarcinoma, B-cell lymphoma, hepatocellular carcinoma and prostatic intraepithelial neoplasia. *Oncogene*, *27*: 1536-1544, 2008. *PMCID: PMC2800355*
46. Nguyen, M. M., Dincer, Z., Wade, J. R., Alur, M., Michalak, M., Defranco, D. B., and **Wang, Z.** Cytoplasmic localization of the androgen receptor is independent of calreticulin. *Mol Cell Endocrinol*, *302*: 65-72, 2009. *PMCID: PMC2806808*

47. Xiao, W., Ai, J., Habermacher, G., Volpert, O., Yang, X., Zhang, A., Hahn, J., Cai, X., and **Wang, Z.** U19/Eaf2 binds to and stabilizes von Hippel-Lindau protein. *Cancer Research*, 69:2599-2606, 2009. *PMCID: PMC2806597*
48. O'Malley K.J., Dhir, R., Nelson, J.B., Bost, J., Lin, Y., and **Wang, Z.** The Expression of Androgen-Responsive Genes Is Up-Regulated in the Epithelia of Benign Prostatic Hyperplasia. *The Prostate*, 69: (16) 1716-23, 2009. *PMCID: PMC2804845*
49. Zhou, J., Feng, X., Ban, B., Liu, J., **Wang, Z.**, and Xiao, W. The Elongation Factor ELL (Eleven-Nineteen Lysine-Rich Leukemia) Acts as a Transcription Factor for Direct Thrombospondin-1 Regulation. *J Biol Chem*. 284:19142-19152, 2009. *PMCID: PMC2707188*
50. Alur, M., Nguyen, M.M., Eggener, S.E., Jiang, F., Dadrass, S.S., Stern, J., Kimm, S., Roehl, K., Kozłowski, J., Pins, M., Michalak, M., Dhir, R., and **Wang, Z.** Suppressive Roles of Calreticulin in Prostate Cancer Growth and Metastasis. *Am. J. Pathol.* 175:(2): 882-90, 2009. *PMCID: PMC2716982*
51. Wang, Y., Gupta, S., Hua, V., Ramos-Garcia, R., Shevrin, D., Jovanovic, B.D., Nelson, J.B., and **Wang, Z.** Prolongation of Off-Cycle Interval by Finasteride Is Not Associated with Survival Improvement in Intermittent Androgen Deprivation Therapy in LNCaP Tumor Model. *Prostate*, 70:(2):147-54, 2010, *PMCID: PMC2805824*
52. Su, F., Pascal, LE, Xiao W., and **Wang Z.** Tumor Suppressor U19/EAF2 Regulates Thrombospondin-1 Expression via p53. *Oncogene*, 29:(3):421-31, 2010. *PMCID: PMC2809809*
53. Ai, J., Wang, Y., Dar, J.A., Liu, J., Liu, L., Nelson, J., and **Wang, Z.** HDAC6 Regulates Androgen Receptor Hypersensitivity and Nuclear Localization via Modulating Hsp90 Acetylation in Castration-Resistant Prostate Cancer. *Mol Endocrinol*, 23: 1963-1972, 2009 *PMCID: PMC2796151*
54. Liu, L., Ai, J., Xiao, W., Liu, J., Wang, Y., Xin, D., He, Z., Guo, Y., and **Wang, Z.** ELL is an HIF-1 α Partner that Regulates and Responds to Hypoxia Response in PC3 Cells. *Prostate*, 2010, in press. *PMCID: PMC2857586*
55. Sen, A., O'Malley, K., **Wang, Z.**, Ganesh, V.R., DeFranco, D.B., Hammes, S.R. Paxillin Regulates Androgen-and Epidermal Growth Factor-Induced MAPK Signaling and Cell Proliferation in Prostate Cancer Cells. *J. Biol Chem*, 2010 Jul 13: 1-19 *PMID20628053*.
56. Gupta, S., Wang, Y., Ramos-Garcia, R., Shevrin, D., Nelson, J.B., and **Wang, Z.** Inhibition of 5 α -Reductase Enhances Testosterone-Induced Expression of U19/Eaf2 Tumor Suppressor During the Regrowth of LNCaP Xenograft Tumor in Nude Mice. *The Prostate*, 70:1575-1585, 2010 *PMID20564326*
57. Pascal, L.E., Ai, J., Vêncio, R, Z.N., Vêncio, E.F., Yong, Z., Page, L.S., True, L.D., **Wang, Z.**, and Liu, A.Y. Differential inductive signaling of CD90⁺ prostate cancer-associated fibroblasts compared to normal tissue stromal mesenchyme cells. In press, *Cancer Microenvironment*.

Review Articles and Book Chapter:

1. Becker, M. M. and **Wang, Z.** Visualizing intimate protein-DNA contacts and altered DNA structures with ultraviolet light. *In: J. P. Jost and J. P. Saluz (eds.), A laboratory guide to in vitro studies of protein-DNA interactions*, Vol. 5, pp. 55-70. Basel: Birkhauser Verlag, 1991.
2. Brown, D. D., **Wang, Z.**, Kanamori, A., Eliceiri, B., Furlow, J. D., and Schwartzman, R. Amphibian metamorphosis: a complex program of gene expression changes controlled by the thyroid hormone. *Recent Prog Horm Res*, 50: 309-315, 1995.
3. Nguyen, M. M. and **Wang, Z.** Manipulation of androgens and alterations in the androgen receptor axis in prostate cancer. *Minerva Urol Nefrol*, 60: 15-29, 2008.
4. Gupta, S., Shevrin, D., and **Wang, Z.** Improving Intermittent Androgen Ablation: Off Cycle and the Role of Steroid 5 α -reductase Inhibitors. *In: D. J. Tindall and J. L. Mohler (eds.), Androgen Action in Prostate Cancer*. Springer, 2008 in press.

TEACHING EXPERIENCE

Developmental Biology 1997 – 1998

My responsibility in this course is to teach early pattern formation and metamorphosis in Xenopus. This is a 90-min session per year for about 5-8 graduate students.

Molecular Biology and Genetics – Co-Course Director 1998 – 2003
Course Director 2004 - 2006

My responsibility is to teach eukaryotic transcription. This consists of 3 one-hour sessions per year for about 25 graduate students.

Carcinogenesis 1999 – 2004

I teach 3 90-min sessions on prostate cancer. This course is for about 12 graduate students.

Tumor Cell Biology

One lecture on prostate cancer 2002 - 2006

Resident Research Forum 1995 – 2006

This research forum is for 3 urology residents at their research year. This session occurs monthly and each session is about 1-hour.

Supervisor to Graduate Students, Post-doctoral Fellows, Residents, and Summer Students:

Graduate Students

Soheil Dedras* 1997 – 2000 (Graduated with M.D., Ph.D.)
Shane Oram 1997 – 2003 (Graduated with Ph.D.)
Mahesh Alur 1999 – 2006 (Graduated with Ph.D.)
Feng Jiang 1998 – 2004 (Graduated with Ph.D.)
Andre Hahn 2001 - 2006 (Graduated with Ph.D.)
Anthony Saporita 2002 - 2006 (Graduated with Ph.D.)
Yi Xing 1998 - 2001 (Graduated with MS from UIC)

*Joint supervision with Dr. Janardan K. Reddy in the Department of Pathology.

Lingqui Liu 2007 - 2009

*Chinese Scholarship receipt 2 yr. training program

Arlee Fafiolios 2006 - 2009 (Graduated with Ph.D.)
Katy Gonyea 2008 - present
Binh Phong 2009 - 2010
Anne Lipton 2009 - present

Post-doctoral Fellows

Ning Zhu 1996 – 1998
Luping Yang 1997 – 2000
Wuhan Xiao 1998 – 2004
Qiuhe Zhang 1999 – 2002
Minh Nguyen 2004 – 2008
Junkui Ai 2004 – 2008
Yujuan Wang 2004 – 2008
Fei Su 2005 – 2009

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|------------------|----------------|
| June Liu | 2006 – 2009 |
| Shubham Gupta | 2006 – 2008 |
| Javid Dar | 2007 – 2010 |
| Prabhpreet Singh | 2008 – 2010 |
| Sudhir Isharwal | 2008 – 2010 |
| Raquel Garcia | 2008 – 2010 |
| Liquan Cai | 2008 – present |
| Laura Pascal | 2008 - present |
| Zhongjie Qiao | 2009 - present |
| Khalid Masoodi | 2010 - present |

Residents

| | |
|-------------------|----------------|
| E. Bradley Pewitt | 1996 – 1997 |
| Evan B. Cohn | 1997 – 1998 |
| Pankaj Jain | 2001 – 2002 |
| Jeffrey Stern | 2002 – 2003 |
| Scott Eggener | 2003 – 2004 |
| Vi Hua | 2004 – 2005 |
| Geoff Habermacher | 2005 – 2006 |
| Bishoy Gayed | 2009 - 2010 |
| Joel Bigley | 2010 - present |

Summer Students

| | |
|--------------------------------------|------------|
| Sarah Chalos | 1997 |
| Robert Chen | 1997 |
| Neema Navi | 2001 |
| Embelli Moduh | 2001 |
| Michelle Allen | 2002 |
| James Wade | 2003 |
| James Henderson (ACS summer program) | 2004, 2005 |
| Ashish Mahtani (ACS summer program) | 2005 |
| A.J. Little | 2006 |
| Gabrielle Landsmann | 2008 |
| Stanley Wang | 2009 |
| Anne Lipton | 2009 |
| Binh Phong | 2009 |
| Hei [Mandy] Ma | 2010 |
| Lara Graham | 2010 |
| Darian Morgan | 2010 |
| Devi Kumar | 2010 |

Ph.D. Thesis Committee Services:

| | |
|-------------|---|
| 1997 - 2001 | William Cook, Ph.D. Thesis Committee |
| 1999 – 2003 | Rumi S. Bhattacharyya, Ph.D. Thesis Committee |
| 1997 – 2000 | Soheil Dadras, Ph.D. Thesis Committee |
| 1999 – 2002 | Stephen Oh, Ph.D. Thesis Committee |
| 1998 – 2006 | Mahesh Alur, Ph.D. Thesis Committee |
| 1998 – 2003 | Shane Oram, Ph.D. Thesis Committee |
| 2000 – 2003 | Feng Jiang, Ph.D. Thesis Committee |

| | |
|----------------|--|
| 2002 – 2006 | Andre Hahn, Ph.D. Thesis Committee |
| 2002 – 2004 | Holly Hanford, Ph.D. Thesis Committee |
| 2002 – 2006 | Kulsoom Ghias, Ph.D. Thesis Committee |
| 2002 – 2006 | Alyson Fuller, Ph.D. Thesis Committee |
| 2003 – 2006 | Anthony Saporita, Ph.D. Thesis Committee |
| 2003 – 2006 | Katie Kathrein, Ph.D. Thesis Committee |
| 2003 – 2006 | Katherine Davis, Ph.D. Thesis Committee |
| 2003 – 2006 | Jennifer Reagen, Ph.D. Thesis Committee |
| 2006 – 2009 | Jung Hoon Lee, Ph.D. Thesis Committee |
| 2006 – 2009 | Arlee Fafalios, Ph.D. Thesis Committee |
| 2008 | Tammy Lee Romanuik, Ph.D., The Univ. of British Columbia, Thesis External Examiner |
| 2008 – Present | Katy Gonyea, Ph.D. Thesis Committee |
| 2009 – Present | Anne Lipton, Ph.D., Thesis Committee/Advisor |
| 2010 - Present | Melanie Grubisha, Thesis Committee |

Conferences attended recently:

2006 American Urological Association [AUA] Annual Meeting, Atlanta, GA., May 20-25, 2006
18th Annual UPCI Scientific Retreat, University of Pittsburgh, Johnstown, PA., June 22-23, 2006.
14th SPORE Investigator’s Workshop, Baltimore, MD., July 16-19, 2006.
2007 American Urological Association [AUA] Annual Meeting, Anaheim, CA, May 18-22, 2007
2007 Endocrine Society Meeting, Toronto, Canada, June 2-5, 2007
15th SPORE Investigator’s Workshop, Baltimore, MD, July 7-10, 2007
NIDDK Meeting, Washington, DC, July 17-18, 2007
2007 SBUR 7th World Basic Urological Research Congress, Dublin, Ireland, September 26-30, 2007
2007 American Urological Association [AUA] Research Scholars Mtg., Chicago, IL, October 6, 2007
Great Lakes Conference, Pittsburgh, PA, October 19-20, 2007
SPORE Investigator’s Workshop, Chicago, IL, November 7-8, 2007.
2008 American Urological Association [AUA] Annual Meeting, Orlando, FL., May 17-22, 2008.
NIDDK Directors Meeting [T32], Bethesda, MD., September 22, 2008.
NCI Translational Meeting, Bethesda, MD., November 7-9, 2008.
2008 Fall SBUR Annual Meeting., Phoenix, AZ., November 20-23, 2008.
2009 American Urological Association [AUA] Annual Meeting, Chicago, IL., April 24 – May 1, 2009.
NIDDK 2.0: Advancing Urology Research Workshop, Washington, D.C., July 14-15, 2009.
NIH BPA Review Meeting, Raleigh, North Carolina, July 29-30, 2009.
NCI Translational Meeting, Bethesda, MD., November 4-7, 2009
2009 8th World Basic Urological Research Congress, New Orleans, Louisiana, November 5-8, 2009
2010 American Urological Association [AUA] Annual Meeting, San Francisco, CA, May 29- June 3, 2010
2010 Annual UPCI Scientific Retreat, Pittsburgh, PA June 17-18, 2010

2010 Endocrine Society Meeting, San Diego, CA, June 19-22, 2010
PCRP-END Peer-Review, Washington, D.C., August 1-3, 2010
Tumor Cell Biology (TCB) Study Section, San Francisco, CA, October 4-5, 2010
NIDDK DDK-D Subcommittee Review Meeting, Washington, DC, October 20-21, 2010
2010 SBUR Annual Meeting, Atlanta, GA, November 11-14, 2010
NCI Planning Committee, Androgen Receptor/Prostate Cancer, Washington, DC., December 6-7, 2010
AUA Research Council Meeting, Baltimore, MD, December 8, 2010
UKGD Study Section Meeting, Arlington, VA, February 6-8, 2011
2011 American Urological Association [AUA] Annual Meeting, Washington, DC, May 13-19, 2011

RESEARCH GRANTS/CONTRACTS:

Current:

- 1) NIH, R37 DK51193-15 (competing renewal), \$1,537,500, Role of U19/Eaf2 in androgen-dependent prostate homeostasis, 12/01/96-11/30/10 (Received MERIT status in 2006). Role: PI. 2.4 Cal. Mnths.
- 2) NIH, RO1 CA12036-01A1, \$1,410,750, Role of Eaf family proteins in prostate carcinogenesis, 04/01/07-01/31/2012. Role: PI. 2.4 Cal. Mnths
- 3) DOD, W81XWH-07-1-0147, \$551,784, Role of HSP90 in androgen-refractory prostate cancer, 12/01/06 – 03/31/11. Role: PI. 1.2 Cal. Mnths
- 4) NIH, CA103730, Expression of Tumor Suppressive Androgen Responsive Gene U19/Eaf2 in Aging Prostate and Cancer-Positive Prostate, \$10,000, 09/01/08-08/31/09. Role: PI. 0.1 Cal. Mnths.
- 5) NIH, 5P 30 CA47904, Prostate and Urologic Cancer Program – UPCI Cancer Center Core Grant, (PI: N. Davidson) \$4,938,665, 08/01/10-07/31/15, Role: Co-investigator. 0.6 Cal. Mnths.
- 6) NIDDK 2T32DK007774-11A1, Kirschstein NRSA Institutional Training Grant. \$1,287,544, 04/01/99-04/30/15. Role: PI.
- 7) NIH, P50 CA090386, Project 1 in Northwestern SPORE in Prostate Cancer, \$10,411,245, 02/01/09-01/13/14. Role: PI. 1.2 Cal. Mnths.
- 8) NIH, R01 DK088793-01, Androgen Signaling in Benign Prostatic Hyperplasia. \$1,321,839,000, 09/15/10-07/31/15. Role: Multi-PI 1.8 Cal. Mnths.
- 9) NIH, 1P20 DK090919-01, University of Pittsburgh Planning Center for Benign Prostatic Hyperplasia (BPH) Research. \$200,000, 09/30/10-07/31/14. Role: PI

Pending:

- 1) NIH, R01 CA108675-07, NES^{AR} regulation of AR subcellular localization and level in prostate cancer cell, \$250,000, 12/01/10-11/30/15. Role: PI.

Past:

- 1) American Cancer Society, PF-05-229-01-CSM, \$138,000, Identifying molecular factors in androgen receptor nuclear export, 7/1/2005 – 6/30/2008 (Postdoctoral fellowship for Dr. Minh Nguyen).
- 2) Department of Defense, \$125,000, 12/1/2005 – 11/30/2007, Identifying molecular factors in androgen receptor nuclear export (Postdoctoral fellowship for Dr. Yujuan Wang).
- 3) GlaxoSmithKline, DUT-R19, Enhancement of intermittent androgen ablation therapy by dutasteride administration in LNCaP xenograft tumor model, \$10,000, 2004 -
- 4) Bioaccelerate, Identification of small molecules that mimic the proapoptotic/growth inhibitory activity of U19/Eaf2 protein, \$313,200, 4/1/2005 – 3/31/2007. (May not be transferred from Northwestern University to University of Pittsburgh)

- 5) American Foundation for Urologic Disease, \$70,000, Role of androgen-responsive gene ALP1 in prostate cancer, 7/1/2005 – 6/30/2007 (Postdoctoral fellowship for Dr. Junkui Ai).
- 6) NIH, R01 DK51193, \$1,433,250, Role of a novel androgen-response gene in prostate, 12/1/2000 – 11/30/2005.
- 7) NIH, 1 P50 CA90386, Prostate Cancer SPORE, project 2, Role of calreticulin in androgen action and prognosis of prostate cancer, \$782,600, 2001 – 2006.
- 8) DOD, DAMD17-02-0113, \$537,189. Enhancement of Intermittent Androgen Ablation Therapy by Finasteride Administration in Animal Models, 2002 – 2005.
- 9) DOD, DAMD17-01-1-0088, \$551,250. Suppressive role of androgen-response gene calreticulin in prostate cancer, 2001 – 2004.
- 10) Boehringer Ingelheim Pharmaceuticals, Inc., \$240,000, Functions of Prostate-Specific Androgen-Response Genes, 1997 – 2001.
- 11) Pfizer Inc., \$109,896, Mechanisms of the prevention of muscle frailty by anabolic steroids: Identification of androgen responsive genes in rat skeletal muscle, 1999.
- 12) Department of Defense, \$441,311, Nutritional Effect on Androgen-Response Gene Expression and Prostate Tumor Growth, 1998 – 2001.
- 13) Lester G. Wood Foundation, Lurie Cancer Center, Northwestern University, \$7,500, 1997.
- 14) Merck & Co., Inc., \$30,000, Identification and Characterization of Genes That Are Differentially Regulated by Testosterone and Dihydrotestosterone in the Prostate – The Effect of Finasteride on the Expression of Androgen-Response Genes, 1997 – 1998.
- 15) Pfizer Inc., \$99,905, Mechanisms of the prevention of muscle frailty by anabolic steroids: Identification of androgen responsive genes in rat skeletal muscle, 1997.
- 16) NIH, R01 DK51193, \$745,119, Androgen Regulated Gene Expression in the Prostate, 1996 – 2000.
- 17) Association for the Cure of Cancer of the Prostate (CaP CURE), \$100,000, Androgen-Response Gene – Promising Targets for the Therapy of Advanced Prostate Cancer, 1996 – 1997.
- 18) American Cancer Society, Junior Faculty Research Award, Grant # JFRA-653, \$90,500, Androgen Regulated Gene Expression in the Prostate, 1996 – 1999.
- 19) Edwin Beer Award from the New York Academy of Medicine, \$75,000, Androgen Regulated Gene Expression in the Prostate, 1996 – 1998. (I relinquished the funding because I was a recipient of the Junior Faculty Research Award from ACS.)
- 20) American Cancer Society, Illinois Division, Inc., Grant #95-58; \$34,700; Molecular Analysis of Prostate Cancer Progression, 1995 – 1996.
- 21) American Cancer Society Institutional Research Grant from the Lurie Cancer Center, Northwestern University, Grant #200, \$10,544, Identification of Androgen-Response Genes in the Prostate, 1995 – 1996.
- 22) Alexander I. Newman Award, 1995 – 1996.
- 23) Lurie Cancer Center Prostate Cancer Program (NCI 1R21 CA69851-01), \$24,340, Prostate Cancer Associated Genes, 1995 – 1996.
- 24) American Foundation for Urologic Disease, Inc., Grant # FEL9625, \$25,000, Fellowship for E. Bradley Pewitt, M.D., Ph.D., Identification and characterization of androgen-response genes in the prostate, 1995 – 1996.
- 25) NCI, R01 CA108675, AR intracellular trafficking in prostate cancer, \$1,306,095, 4/1/2005-3/31/2010. Role:PI

INVITED LECTURESHIPS

Invited Lectureships related to your research

Invited Speaker Before 2003:

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| 10 th International Congress of Endocrinology, San Francisco | 1996 |
| Carnegie Institution of Washington, Baltimore | 1996 |
| University of Illinois at Chicago, Chicago | 1996 |
| Boehringer Ingelheim Pharmaceuticals, Inc., Germany | 1996 |
| Johns Hopkins Medical School, Baltimore | 1997 |
| 4 th CaP CURE Scientific Research Retreat, Lake Tahoe | 1997 |

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| Symposium on International Biology of Prostate Growth , D.C. | 1998 |
| BC Cancer Agency, Vancouver | 1998 |
| 1998 SBUR Fall Annual Meeting, Prouts Neck | 1998 |
| Lilly Research Laboratories, Eli Lilly, Indianapolis | 1998 |
| NCI Prouts Neck Meeting on Prostate Cancer | 1999 |
| University of Texas Southwestern Medical School | 1999 |
| BC Cancer Agency, Vancouver | 2000 |
| Annual meeting of the clinical society of genitourinary surgeons | 2000 |
| Workshop on androgen withdrawal therapy, BC Cancer Agency, Vancouver | 2001 |
| SBUR/AUA Spring Annual meeting session chair, Anaheim | 2001 |
| NIH, NIDDK | 2001 |
| SBUR Fall meeting (Session Chairperson) | 2001 |
| Annual Meeting of Chinese Urology Association | 2002 |
| SBUR Fall meeting | 2002 |
| NCI Prostate SPORE winter meeting | 2002 |
| University of Iowa, Urology | 2003 |
| Southern Illinois University, Molecular Pharmacology and Biochemistry | 2003 |
| University of Virginia, Cancer Center | 2003 |
| University of Wisconsin, Cancer Center | 2003 |
| University of Kentucky Medical Center | 2003 |
| NCI SPORE annual meeting, Baltimore | 2003 |

Invited Speaker Since 2004

Joint symposium on apoptosis – Feinberg Cardiovascular Research Institute and Weizmann Institute of Science, “U19, an androgen-regulated apoptosis inducer, suppresses prostate tumor growth”. Northwestern University, Chicago, June 14, 2004.

NCI Prouts Neck meeting on advanced prostate cancer, “Enhancement of Intermittent Androgen Deprivation Therapy of Prostate Cancer by 5 α -reductase Inhibition”. Prouts Neck, ME, Nov. 5, 2004

The Prostate Center, Vancouver General Hospital, “Roles of androgen-response genes, testosterone, and DHT in prostate cancer”, Vancouver, Canada, Nov. 12, 2004

Winship Cancer Institute, Emory University School of Medicine, Elkin Lecture Series, “Roles of testosterone, DHT, and androgen-response genes in the prostate”. Atlanta, GA, Jan. 18, 2005

Inter-SPORE meeting in Houston, Co-chair on session "Androgen Pathway: Targeting the Androgen Receptor", Houston, TX, Jan. 30-Feb. 1, 2005

University of Pittsburgh, Prostate Cancer and Urologic Cancer Program (PUCP), “Androgen action pathway and prostate cancer”. Pittsburgh, PA, April 25, 2005.

Division of Hematology/Oncology and the Robert H. Lurie Comprehensive Cancer Center of Northwestern University's Grand Rounds, “Roles of androgens in prostate cancer - insights from androgen-response gene characterization”. Chicago, IL, January 6, 2006.

University of Rochester, Department of Pathology, “Mechanisms of Androgen Action-Roles of Androgen-Responsive Genes in Prostate Cancer Progression”, Rochester, NY, July 5, 2006.

Mechanisms of Toxicity Gordon Research Conference, “Androgen Receptor Intracellular Trafficking in Prostate Cancer Cells” in the Session of “Importance of Nucleocytoplasmic Transport in Receptor Signaling and Disease”. Waterville, ME, July 23-28, 2006

International Symposium on Androgen Action, “Roles of Androgen-Responsive Genes in Prostate Cancer”. Taipei, November 1-7, 2006

Roswell Park Cancer Institute, “Roles of Androgen-Responsive Genes in Prostate Cancer”. Rochester, NY, May 7-8, 2007

Roswell Park Cancer Institute, “Androgen Receptor Intracellular Trafficking in Prostate Cancer Cell”. Rochester, NY, May 7-8, 2007

University of Pittsburgh, Prostate Cancer and Urologic Cancer Program (PUCP) “Androgen Receptor Intracellular Trafficking in Prostate Cancer”. Pittsburgh, PA, May 14, 2007

Department of Defense Prostate Cancer Research Program Meeting, Innovative Minds in Prostate Cancer Today (IMPACT), “Enhancement of Intermittent Androgen Ablation by Off-Cycle Maintenance with Finasteride in a Prostate Cancer Xenograft Model”. Atlanta, GA, September 6, 2007

The Ordway Research Institute, “Roles of Androgen-Responsive Genes in Prostate Cancer”. Albany, NY, April 9-10, 2008

4th Annual National Symposium on Prostate Cancer at Clark Atlanta University, “Roles of Androgen-Responsive Genes in Prostate Cancer”, Atlanta, GA, March 16-18, 2008

23rd International Conference on Advanced Science and Technology (ICAST), Abbot Laboratories, “Androgen Action in Prostate Cancer Progression”. Abbot Park, IL, September 20, 2008.

The 8th Chinese National Conference on Tumor Metastasis, July 6, 2009, Tianjin, China “Androgens and tumor suppressors in prostate cancer.”

University of Minnesota, “Androgens and Tumor Suppressors in Prostate Cancer”, Minneapolis, Minnesota, October 20-21, 2009.

2009 NCI Translational Science Meeting, “Prolongation of Off-Cycle Interval by Finasteride Is Not Associated with Survival Improvement in Intermittent Androgen Deprivation Therapy in LNCaP Tumor Model”, Vienna, VA, November 5-7, 2009

Tulane University, “Androgens and Tumor Suppressors in Prostate Cancer”, New Orleans, Louisiana, November 17-18, 2009.

University of Houston, “Androgens and Tumor Suppressors in Prostate Cancer”, Houston, TX, April 29-30, 2010.

2010 Endocrine Society Meeting, San Diego, CA. “Androgens and tumor suppressors in prostate cancer” June 18-22, 2010

Tianjin International Conference on Tumor Microenvironment, , Tianjin, China. “Regulation of angiogenesis by tumor suppressor U19/Eaf2” July 3-4, 2010

The Cancer Institute of New Jersey – Cancer Center Grand Rounds (CINJ), New Brunswick, NJ. “Roles of Androgen-Responsive Genes in Prostate Cancer”, January 26, 2011

Innovative Minds in Prostate Cancer IMPaCT Conference 2011, “Role of HSP90 in Androgen-Refractory Prostate Cancer, Orlando, FL., March 9-12, 2011

Department of Biochemistry and Molecular Biology, Johns Hopkins University, Baltimore, MD, April 25, 2011

RESEARCH GRANT PROPOSAL REVIEW

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| The Kentucky Science and Engineering Foundation (KSEF) | 2003 |
| Ad hoc Study Section Member, NIH –REN | 2002 - 2003 |
| Ad hoc, NIH- special panel on Dietary prevention of prostate cancer | 2002 - 2003 |
| TBE Study Section Regular Member, ACS | 2002 - Present |
| Ad hoc, Kentucky Science & Engineering Foundation | 2004 |
| Study Section Member, California Cancer Research Program | 2000, 2002 |
| Research Advisory Committee, ACS, IL Division | 2001- 2006 |
| Ad hoc Reviewer for Michael Smith Foundation for Health Research | 2001 |
| Ad hoc VA Merit Grant Reviewer | 1996 |
| Review Committee, Lurie Cancer Center Prostate Cancer Research Program | 1997 - 2006 |
| Developmental Research Committee, Just-Cause Foundation | 1997 |
| DOD Prostate Cancer Research Program Study Section | 1998 - Present |
| AFUD/AUA Foundation | 2004, 2007 |
| Ad hoc, Ohio Cancer Research Associates | 2008 |
| NCI SPORE, Study Section | 2008 |
| NIH Study Section | 2009 |
| UGKD Study Section | 2010, 2011 |
| TCB Study Section | 2010 |

COMMITTEE SERVICE

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|----------------|--|
| 1997 - 2006 | Departmental Research Committee, Northwestern University, Department of Urology, Chair since 2000 |
| 1998 – 1999 | Organizing Committee, NCI 8 th Prouts Neck Meeting on Prostate Cancer |
| 1998 – 2000 | Receptor and Function Subgroup Leader, Lurie Comprehensive Cancer Center |
| 1998 – 2002 | Chicago Prostate Club Organizing Committee |
| 1999 | Cancer Biology Preliminary Exam Committee, Co-Chair |
| 1999 – 2000 | Northwestern IGP Graduate Program Admission Committee |
| 2000 – 2001 | SBUR Spring Meeting Organizing Committee |
| 2001 – 2002 | IGP Qualifying Exam Committee |
| 2001 – 2002 | Cancer Biology Qualifying Exam Committee, Chair |
| 2001 – Present | Northwestern University Prostate Cancer SPORE Executive Committee |
| 2002 | Member, ACS-IRG Review committee, The Robert H. Lurie Cancer Center |
| 2001 – 2004 | Member, Northwestern University Radiation Safety Committee |
| 2002 – 2004 | Member, Gramm Travel Fellowship Committee |
| 2003 - 2004 | Member, the IGP Admissions Committee |
| 2003 – 2004 | Ad hoc member, Promotion and Tenure committee, Northwestern University Feinberg School of Medicine |
| 2003 – 2004 | SBUR Spring Meeting Organizing Committee |

2003 – 2004 Organizing Committee for meeting on Androgen Action in Prostate Cancer, Keystone, March 4-6, 2004, Sponsored by NCI

2003 – 2006 Member, Northwestern University ACUC committee

2006 – Present Program Leaders/Shared Resources Director Committee, University of Pittsburgh Cancer Institute

2007 – Present Member/Advisor, Mentoring Committee, Department of Urology, University of Pittsburgh

2007 - Present Member/Advisor, Mentoring Committee, Department of Pharmacology, University of Pittsburgh

2008 Member/UPCI Retreat Planning Committee, University of Pittsburgh Cancer Institute

2007 – Present Reviewer/UPMC Health System Competitive Medical Research Fund (CMRF)

2008 – Present Member/Transgenic Advisory Committee, University of Pittsburgh

2009 – Present UPMC Chair in Urological Research

2011 Editorial Board/Society of Chinese Bioscientists in America (SCBA), Bioscience Journal/BioMed Central (BMC)

2011 Member, Abstract Placement Committee, Innovative Minds in Prostate Cancer Today (IMPACT) Conference