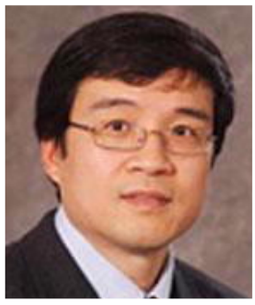


Allen Gao, M.D., Ph.D.

Clinical Interests

Dr. Gao's research interests focus on understanding molecular mechanisms associated with progression of castration-resistant prostate cancer and metastasis to bone with the goal of identification of potential therapeutic targets for prostate cancer. Particular emphasis includes microRNAs, aberrant androgen receptor activation by cytokines and transcriptional factors such as Stat3 and NF-kB, selenium chemoprevention and therapy, and targeting cell signaling pathways (AR, IL-6 and Stat3) in prostate cancer. Dr. Gao's lab was among the first to find that selenium regulates androgen signaling, find that IL-4 activates androgen receptor mediated by NF-kB and Stat6, made the discovery that IL-6 signaling in prostate cancer involves Stat3, and defined Stat3 and NF-kB interactions in prostate cancer. Dr. Gao has published over 60 peer-reviewed articles on the area of prostate cancers. Dr. Gao has served numerous NCI, DOD, and VA merits, and ACS review panels including SPORE and PPG study sections.

Title

Professor
Ralph de Vere White Professor and Director of Urologic Research
Co-Leader, Prostate Cancer Program

Specialty

Cancer, Urologic Oncology, Urology

Department

Urology

Division

Urology

Clinic

Urology Clinic

Center/Program Affiliation

UC Davis Comprehensive Cancer Center

Education

M.D., Sichuan Medical College, Chengdu, Sichuan, 1985
Ph.D., University of Texas, Houston, School of Public Health, Houston, Texas, 1995

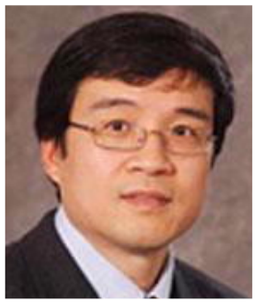
Fellowships

John Hopkins University School of Medicine, Baltimore, Maryland, 1998

Professional Memberships

Ad Hoc Member for NIH DMP Study Section
Ad Hoc member for NIH Metabolic Study Section
Ad Hoc reviewer for NIH Tumor Microenvironment study section
Editorial Board, The Prostate
Member, ACS TBE study section
NCI Special Emphasis Panel, Cancer Prognosis and Prediction

UCDAVIS HEALTH SYSTEM



Allen Gao, M.D., Ph.D.

Reviewer Committee Member, O'Brien Urology Center Program
Scientific Reviewer Panel, DOD Prostate Cancer Program, Breast Cancer Program

Honors and Awards

Ralph deVere White Endowed Professor of Urologic Research, University of California, Davis, 2008

First prize award, AUA Assay Contest, Gleave, M., Hsieh JT, Gao A.C. Von Eschenbach A.C., and Chung L.W.K. Acceleration of Human Prostate Cancer Growth in vivo by Factors Produced by Prostate and Bone Fibroblasts., 1991

Select Recent Publications

Zhu YZ, Liu, C.F., Nadiminty, N., Lou, W., Tummala, R., Evans, C.P., Gao, A. C. Inhibition of ABCB1 expression overcomes acquired docetaxel resistance in prostate cancer. Mol Cancer Ther 2013 12 (9): 1829-36.

Nadiminty N, Tummala R, Lou W, Zhu YZ, Evans CP, Gao AC. NF-kB2/p52 induces resistance to enzalutamide in prostate cancer: role of androgen receptor and its variants. Molecular Cancer Ther 2013 12 (8): 1629-37.

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Nadiminty N, Tummala R, Lou W, Zhu Y, Zhang J, Chen X, eVere White RW, Kung HJ, Evans CP, Gao AC. MicroRNA let-7c suppresses androgen receptor expression and activity via regulation of Myc expression in prostate cancer cells. *J Biol Chem.* 2012 Jan 6;287(2):1527-37. Epub 2011 Nov 28.

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Nadiminty N, Lou W, Sun M, Chen J, Yue J, Kung HJ, Evans CP, Zhou Q, Gao AC. Aberrant activation of the androgen receptor by NF-kappaB2/p52 in prostate cancer cells. *Cancer Res.* 2010 Apr 15;70(8):3309-19. Epub 2010 Apr 13.

Feng S, Tang Q, Sun M, Chun JY, Evans CP, Gao AC. Interleukin-6 increases prostate cancer cells resistance to bicalutamide via TIF2. *Mol Cancer Ther.* 2009 Mar;8(3):665-71. Epub 2009 Feb 24.

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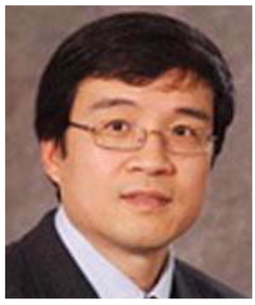

Allen Gao, M.D., Ph.D.

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Chun JY, Hu Y, Pinder E, Wu J, Li F, Gao AC. Selenium inhibition of survivin expression by preventing Sp1 binding to its promoter. *Mol Cancer Ther.* 2007 Sep;6(9):2572-80.

Nadiminty N, Lou W, Lee SO, Lin X, Trump DL, and Gao AC. Stat3 activation of NF-kB p100 processing involves CBP/p300 mediated acetylation. Proc Natl Acad Sci USA, 103 (19): 7264-7269, 2006

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