

## BIOGRAPHICAL SKETCH

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NAME Lee, Chung		POSITION TITLE Professor Emeritus, Northwestern University Adjunct Professor, UC Irvine	
eRA COMMONS USER NAME CHUNGLEE			
EDUCATION/TRAINING (Begin with baccalaureate or other initial professional education, such as nursing, and include postdoctoral training.)			
INSTITUTION AND LOCATION	DEGREE (if applicable)	YEAR(s)	FIELD OF STUDY
National Taiwan University, Taiwan	B.S.	1959	Animal Science
West Virginia University, Morgantown, WV	M.S.	1966	Nutrition/Physiology
West Virginia University, Morgantown, WV	Ph.D.	1969	Nutrition/Physiology

### Personal Statement

I am Professor Emeritus at Northwestern University. I have over 40 years of research experience in prostate cancer research. As the founding Director of the Prostate SPORE at Northwestern University in 2001, I have guided the successful development of many clinical programs including clinical trials. I will be happy to participate in the guidance of the clinical utility of the validation effort and the translation application in the Molecular Diagnostic CLIA lab in UCI.

### Professional Experience

1969-71	USPHS Postdoctoral Fellow (HD 43928), Albany Medical College
1971-74	Associate, Northwestern University Feinberg School of Medicine
1974-79	Assistant Professor, Northwestern University Feinberg School of Medicine
1979-85	Associate Professor, Northwestern University Feinberg School of Medicine
1985-present	Professor, Department of Urology, Northwestern University Feinberg School of Medicine; Center for Reproductive Science, Northwestern University Robert H. Lurie Comprehensive Cancer Center; Northwestern University, Department of Cell and Molecular Biology, Northwestern University
1992-2011	John T. Grayhack Professor, Urological Research, Northwestern University
2003-04	Visiting Professor (Sabbatical), Department of Urology, University of California, Irvine
2011-present	Professor Emeritus, Department of Urology, Northwestern University
2011-present	Adjunct Professor, Departments of Pathology and Urology, University of California at Irvine

### Honors

1995	Wu Jieping Medical Award, the Chinese Urological Association
2003	Distinguished Preceptor Award, American Foundation for Urologic Disease/American Urological Association
2007	Lifetime Achievement Award, World Chinese Urological Society/American Urological Association
2013	Meritorious Achievement Award, Society for Basic Urological Research/American Urological Association

### B. Selected peer-reviewed publications from 200 articles

- Zhang Q, Yang X, Pins M, Liu V, Javonovic B, Kuzel T, Kim S-J, Van Parijs L, Greenberg NM, Guo Y, **Lee C.** (2005) Adoptive transfer of tumor reactive TGF- $\beta$  insensitive CD8<sup>+</sup> T cells: Eradication of autologous mouse prostate cancer. *Cancer Research* 65:1761-1769.
- Zhang Q, Rubenstein JN, Jang TL, Yang X, Pins M, Javonovic B, Kim SJ, Park I, Liu V, **Lee C.** Insensitivity to transforming growth factor- $\beta$  signaling is resulted from promoter methylation of cognate receptors in human prostate cancer cells, LNCaP. *Molecular Endocrinology* 19:2390-2399, 2005.
- Zhang Q, Jang TL, Yang X, Pins M, Javonovic B, Kuzel T, Kim S-J, Van Parijs L, Greenberg NM, Liu VC, Park I, Guo Y, **Lee C.** (2006) Infiltration of transferred cells into the tumor parenchyma. *Prostate* 66:235-247.
- Zhang Q, Kundu SD, Yang X, Pins M, Jovanovic B, Meyer R, Kim S-J, Greenberg NM, Kuzel T, Meagher R, Guo Y, **Lee C.** (2006) Blockade of TGF- $\beta$  signaling in tumor-reactive CD8<sup>+</sup> T cells activates the anti-tumor immune response cycle. *Molecular Cancer Therapeutics* 5:1733-1743.

5. Liu VC, Wong LW, Jang T, Shah AH, Park I, Yang X, Zhang Q, Lonning S, Teicher BA, **Lee C.** (2007) Tumor evasion of the immune system by converting CD4<sup>+</sup>CD25<sup>-</sup> T cells into CD4<sup>+</sup>CD25<sup>+</sup> T regulatory cells: role of tumor-derived TGF- $\beta$ . *Journal of Immunology* 178:2883–2892.
6. Wang FL, Qin WJ, Wen WH, Tian F, Song B, Zhang Q, **Lee C,** Zhong WD, Guo YL, Wang H. (2007) TGF-beta insensitive dendritic cells: an efficient vaccine for murine prostate cancer. *Cancer Immunol Immunother.* 2007. 56:1785-1793.
7. Lee GT, Hong JH, Kwak C, Woo J, Liu V, **Lee C,** Kim IY. (2007) Effect of dominant negative transforming growth factor-beta receptor type II on cytotoxic activity of RAW 264.7, a murine macrophage cell line. *Cancer Research* 67:6717-6724.
8. Luo X, Zhang Q, Liu V, Xia Z, Pothoven KL, **Lee C.** (2008) Cutting Edge: TGF- $\beta$  Induced expression of Foxp3 in T cells is mediated through inactivation of ERK. *Journal of Immunology* 180:2757-2761. PMID: 18292494
9. Zhang Q, Helfand BT, Jang TL, Zhu LJ, Chen L, Yang XJ, Kozlowski J, Smith N, Kundu SD, Yang G, Raji AA, Javonovic B, Pins M, Lindholm P, Guo Y, Catalona WJ, **Lee C.** (2009) NF-kB-Mediated Transforming Growth Factor- $\beta$ -Induced Expression of Vimentin is an Independent Predictor of Biochemical recurrence After Radical Prostatectomy. *Clinical Cancer Res* 19:128-139, 2009 PMID: 19447876.
10. Park II, Zhang Q, Liu V, Kozlowski JM, Zhang J, **Lee C.** (2009) 17 $\beta$ -estradiol at low concentrations acts through distinct pathways in normal versus BPH-derived prostate stromal cells. *Endocrinology* 150:4594-5605, PMID: 19608654.
11. Yu N, Kozlowski JM, Park II, Chen L, Zhang Q, Xu D, Doll JA, Crawford SE, Brendler CB, **Lee C.** (2010) Over-expression of transforming growth factor  $\beta$ 1 in malignant prostate cells is partly caused by a runaway of TGF- $\beta$ 1 auto-induction mediated through a defective recruitment of protein phosphatase 2A by TGF- $\beta$  type I receptor. *Urology* 76:1519.e8-e13. PMID: 21030067. PMCID PMC2997920
12. Zhang Q, Chen L, Helfand BT, Zhu LJ, Kozlowski J, Minn A, Jang T, Yang XJ, Javonovic B, Guo Y, Lonning S, Harper J, Teicher BA, Yu N, Brendler C, Wang J, Catalona WJ, **Lee C.** (2011) Transforming Growth Factor- $\beta$ -induced DNA methyltransferase contributes to aggressive prostate cancer phenotypes and predicts biochemical recurrence after radical prostatectomy *PLoS ONE* 6:e25168. PMID: 21980391. PMCID: PMC3184137
13. Hu Z, Gupta J, Zhang Z, Gerseny H, Berg A, Chen YJ, Zhang Z, Du H, Brendler CB, Xiao X, Pienta KJ, Guise T, **Lee C,** Stern PH, Stock S, Seth P. (2012) Systemic delivery of oncolytic adenoviruses targeting transforming growth factor- $\beta$  inhibits established bone metastasis in a prostate cancer mouse model. *Human Gene Therapy* 23:871–882. PMID: 22551458. PMCID PMC3413899
14. Wu L, Runkle C, Jin HJ, Yu J, Li J, Yang X, Kuzel T, **Lee C,** Yu J. [CCN3/NOV gene expression in human prostate cancer is directly suppressed by the androgen receptor.](#) *Oncogene.* 2013 (In Press). PMID: 23318417

15.

**RESEARCH SUPPORT:**

<b>1 U01 CA152738-01 (Mercola/Lee)</b>	07/01/10 – 06/30/15	2.4 calendar months
NIH, NCI – multiple PI with UC-Irvine		
This project will investigate prostate tumor microenvironment which exhibits differentially expressed genes.		
<b>2 P50CA090386-06A2 (Catalona)</b>	02/01/09 - 12/31/14	3.85 calendar months
NIH/NCI		
SPORE in Prostate Cancer		
This is a P50 Program Project application from Northwestern University in prostate cancer research.		

