

Curriculum Vitae

Name: Steve Smith

Address: Department of Cellular Injury, Anytown Institute of Research
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Date of Birth: 00/00/00 **Nationality:** American

EDUCATION

08/1992 - 08/1995 M.B., State College, Anytown, ST
Major: Tumor Pathology; Minor: Tumor Molecular and Cellular Biology

08/1981 - 08/1987 M.D., Department of Medicine, Anytown University of Medical
Sciences, Anytown, ST

PROFESSIONAL TRAINING

05/1996 - 06/1996 Department of Pathology, **University of Medical Science**,
Anytown, ST

- Advanced training on experimental molecular biology

10/1995 - 11/1995 Department of Pathology, **University of Medical Science**,
Anytown, ST

- Advanced training on immunohistochemistry and cellular image analysis

04/1990 - 05/1990 **Department of Cancer Research Institute of Tumor Hospital**,
Anytown, ST

- Advanced training for diagnostic techniques in gynecological cancer pathology

03/1988 - 03/1989 Department of Pathology, **University of Medical Sciences**,
Anytown, ST

- Advanced training on diagnosis of pathology

WORK EXPERIENCE

04/2004 - Present Senior Research Associate. Department of Cellular Injury,
Institute of Research, Anytown, ST

- Investigate interaction between TCR and CD44-ERM signaling in adhesion and migration of T lymphocytes from human systemic lupus erythematosus

01/1999 - 03/2004 Postdoctoral Fellow (2001). Department of Experimental Pathology,
Anytown Laboratory, American Red Cross, Anytown, ST

- Investigated cytoskeletal reorganization in metastasis of breast cancer
- Investigated cytoskeletal reorganization in injury and angiogenesis of endothelial cells

08/1995 - 11/1998 Principle Investigator, **Cancer Research Institute**, Anytown Medical
College, Anytown, ST

- Investigated molecular mechanism of metastasis of nasopharyngeal carcinoma and breast cancer
- Investigated the relationship among oncogenes expression, invasion and metastasis in human cancer
- Assistant professor, Department of Pathology, Guangdong Medical College, Anytown, ST
- Physician on Clinical pathology, Department of Pathology, Anytown Medical College, Anytown, ST

07/1987 - 08/1992 Physician on Clinical Pathology, **People's Hospital**,
Anytown, ST

SPECIAL COMPETENCIES AND INTERESTS

Molecule biology:

DNA recombination, plasmid/retroviral plasmid construction, subcloning, sequencing of PCR, stable/transient transfection by Lipofectamine, FuGene 6, retrovirus, Nucleofector and Electroporation, siRNA, antisense, PCR, RT-PCR, situ hybridization, DNA and RNA isolation, Southern and Northern transfer

Cell biology:

Cell lines/primary cell culture, cell growth curve, angiogenesis in vitro/in vivo, cell adhesion and chemotactic migration assay, cell apoptosis and differentiation assays, immunofluorescent double/triple staining, cell sorting by FACS, Cell transformation (soft agar and over agar), protein kinase activity assay, protein extraction and purification

Microscopy:

Light microscopy, fluorescent/laser confocal microscopy

Virology:

Preparation and infection of Epstein-Barr virus and retrovirus

Immunology:

Primary T cell isolation, culture and transfection, luciferase assay, ChIP assay, EMSA, ELISA, immunoprecipitation, Western blotting, immunocytochemistry, immunohistochemistry, flow cytometry

Tumor biology:

Animal models of tumor metastasis (intracardiac Injections, tail vein injection, mammary fat pad injection), colony formation, tumorigenicity, animal X-ray radiography, animal dissection, tumor cell transendothelial migration, tumor cell adhesion to endothelium

Pathology:

Histological and pathological diagnosis, techniques for sample/section preparation and HE staining, immunohistological double/triple staining

Computer skills:

Imaging and scanning by using Photoshop and NIH image software. Microsoft Word, Microsoft Excel, Power Point, Sigmaplot and BLAST, comfortable on Windows

PROFESSIONAL MEMBERSHIPS

- 2001-present: Associate Member of **American Association for Cell Biology**
- 1989-1998: Member, **Society of Pathology, American Medical Association**
- 1991-1998: Member, **Association for Cancer Research**

GRANTS

- 1998: Received **Health Ministry Grant** (8-1-892) as a Principal Investigator, Anytown University for "**Evaluation of the Relationship Between Expression of Telomerase and Micrometastasis in Human Breast Cancer by RT-PCR**"
- 1997: Received the **Young Scientist Fund of Medical College** (9779) as a Principal Investigator for "**Study of Telomerase Inhibitor-induced Apoptosis in Poorly Differentiated Nasopharyngeal Carcinoma Cells**"
- 1996: Received the **Health Department of Province Grant** (960982) as a Principal Investigator for "**Correlation Study of Micrometastasis and Clinical Pathological Significance by Detection of Circulating Tumor Cells Using a RT-PCR.**"

HONORS AND AWARDS

- 1995-1998: Member of scientific tutorial group of nine postgraduate students and a supervisor of 12 clinical physicians from July 1995 to December 1998 at Anytown Medical College

PUBLICATIONS

1. **Steve Smith**, Jones M, Charles T, Wilson K and Long GC. p-ERM is induced by anti-CD3/TCR autoantibodies and triggers T cell lipid raft formation, polarization, adhesion and infiltration in human systemic lupus erythematosus. Manuscript preparation, 1995.
2. Bowman, PP, Luellen X, **Steve Smith**, Nelson YT, Atkins JL, and Long GC. Geldanamycin prevents hemorrhage-induced ATP loss by overexpressing HSP-70i and activating pyruvate dehydrogenase. *Name of Journal*. In press 2005 (G-00483-2005.R6).
3. Nelson YT, Wang Y, Solomon EE, **Steve Smith**, Mawry C, Tenyson K, Wang VC, and Long GC. Tyrosine systemic lupus erythematosus serum IgG increases CREM binding to the IL-2 promoter and suppresses IL-2 production through CaMKIV. *Name of Journal*. 2005, 115 (4): 996-1005.
4. **Steve Smith**, Urquaz T, Dudson SM, Garcia JG, Johnson CC and Jayson Y. Interaction of cortactin and Arp2/3 complex is required for sphingosine-1-phosphate induced endothelial cell remodeling. *Name of Journal*. 2004, 298:107-121.
5. Uruson T, Moore J, **Steve Smith**, Smith N, and Jayson Y. Sequential interaction of Arp2/3 complex with N-WASP and cortactin during the formation of branched actin network. *Name of Journal*. 2003, 278 (28):26086-93.
6. Zhang G, Lemmox SJ, **Steve Smith**, Cao J, Taylor SM and Liang J. Clinicopathological study of p16 and PCNA expression in skin cancers. *Name of Journal*. 2001, 8(6):616-618.
7. **Steve Smith**, Roberts M, Moore J, Smith E, Johnson CC, Estrada M and Jayson Y. Cortactin potentiates bone metastasis of breast cancer cells. *Name of Journal*. 2001 Sep;61(18):6906-11.

8. **Steve Smith**, Moore J and Jayson Y. Tyrosine phosphorylation of cortactin is required for H₂O₂-mediated injury of human endothelial cells. *Name of Journal*. 2000 Nov 4; 275 (47):37187-93.
9. Campbell YG, Worley SJ, **Steve Smith**, Luellen WQ and Leeson CR. The effects of various dose calcitonin gene-related peptide on protection of myocardial injury induced by isoprenaline. *Name of Journal*. 2000, 23(8):502-503.
10. **Steve Smith**, Campbell YG and Kang TB. The effect of quercetin on expression of c-myc and cyclin D1 genes in HL-60 leukemia cells. *Name of Journal*. 2000; 19(8):832-835.
11. Campbell Y and **Steve Smith**. PCNA expression in the status of rectal carcinoma and its relationship with tumorous biological behavior and surgical treatment. *Name of Journal*. 2000; 20(6):15-16.
12. Worley SJ, **Steve Smith**, Campbell YG, Luellen WQ and Leeson CR. Effect of calcitonin gene-related peptide (CGRP) on myocardial ischemic injury in rat. *Name of Journal*. 2000; 16 (3):226-228.
13. **Steve Smith**, Worley SJ, Bell N and Crisp SJ. The effect of transfection by Epstein-Barr virus on the activities of protein kinase C and tyrosine protein kinase in different subcellular fractions of nasopharyngeal carcinoma cell Line (CNE-2Z) in vitro. *Name of Journal*. 2000; 22(2): 90-94.
14. Campbell YG, Worley SJ, **Steve Smith**, Luellen WQ and Li CR. Protective effects of varied dosages of calcitonin gene-related peptide (CGRP) on myocardial injuries induced by isoprenaline. *Name of Journal*. 2000; 15(1):6-7.
15. Chen H, Bell XB and **Steve Smith**. The Expression of PCNA, clinical pathology and prognosis in ovary epithelial cancer. *Name of Journal*. 2000; 21(1): 87-89.
16. **Steve Smith**, Worley SJ, Crisp SJ and Bell N. The effect of EBV infection on the changes of cellular morphometric and DNA content of human nasopharyngeal carcinoma cell Lines in vitro. *Name of Journal*. 1999; 17(4):313-316.
17. Chen K, Campbell YG, **Steve Smith** and Campbell B. Expression of apoptosis-suppressing oncoprotein bcl-2 in carcinoma of human salivary gland and its significance. *Name of Journal*. 1999; 17(3): 193-195.
18. Campbell Y and **Steve Smith**. Correlation study of PCNA expression with tumor infiltration and anus retention in human rectal cancer. *Name of Journal*. 1999; 17(3):3232-233.
19. **Steve Smith**, Kang TB and Liang NC. Effect of quercetin on expression of p53 and bcl-2 genes in intact HL-60 leukemia cells. *Name of Journal*. 1999; 15(3):255-257.
20. Moore WP, Zhougran L, **Steve Smith**, Carlson J and Campbell B. Expression of proliferation cell nuclear antigen and P53 genes in human tongue cancer. *Name of Journal*. 1999; 15(2):105-107.
21. Worley SJ, **Steve Smith**, Campbell YG, Luellen WQ and Leeson CR. Protective effect of calcitonin gene-related peptide on myocardial ischemic injury in rat. *Name of Journal*. 1999; 1(1):27-29.
22. Moore WP, Zhaury L, **Steve Smith**, Carlson J and Campbell B. Expression of nm23 gene in human tongue cancer and its clinical significance. *Name of Journal*. 1999; 17(1):15-17.
23. Campbell Y, **Steve Smith** and Xandu Q. Correlation between expression of nm23 and lymph node metastasis in human breast cancer. *Name of Journal*. 1999; 20(1):27-28.
24. Xu QW and **Steve Smith**. Expression of nm23 and PCNA genes in regional lymph node metastasis of human gastric cancer. *Name of Journal*. 1998; 5(4):27-28
25. **Steve Smith**, Zimmer ZH, Campbell YG, Leeson H and Wilson DM. Nm23-H1 expression as prognostic factor in human colorectal carcinoma. *Name of Journal*. 1998; 16(4): 317-319.
26. Xurdy QW, **Steve Smith** and Miller HG. Relationship between expression of P53, PCNA and CEA and lymph node metastasis in human colorectal cancer. *Name of Journal*. 1998; 6(3):244-246.
27. **Steve Smith**, Wang TB and Leeson NC. Studies on activities of PKC and TPK from two human nasopharyngeal carcinoma cells. *Name of Journal*. 1998; 17(1)13-15.
28. Xurdy QW, **Steve Smith** and Miller HG. CLinical significance of nm23 and p53 expression in human gastric carcinoma. *Name of Journal*. 1997; 18(4):220-22.
29. Xurdy QW, **Steve Smith** and Miller HG. Prognostic significance of expression of p53, PCNA, CEA in human colorectal cancer. *Name of Journal*. 1997; 15(3):210-12.

30. Chenderen K, Gao Y, Campbell YG, **Steve Smith** and Patterson SZ. The relationships among nm23 gene expression, tumor genesis and metastasis in human salivary gland tumor. *Name of Journal*. 1997; 15(1):1-2.
31. Campbell J, Tang WP, Yao YH, **Steve Smith** and Leeson FH. Expression and significance of the C-erbB-2 oncoprotein in benign and malignant nasopharyngeal tissues, nasopharyngeal carcinoma cell and its clonal strains. *Name of Journal*. 1996; 15(4):256-58.
32. Campbell J, Wang WP, Yarl YH, Leeson FH and **Steve Smith**. Expression of the C-erbB-2 oncoprotein (P185) in malignant nasopharyngeal tissues, metastatic tissues. *Name of Journal*. 1995; 2(3):180-182.

ACADEMIC CONFERENCE PRESENTATIONS

1. **Steve Smith**, Wang, Nelson YT, Wang Y, Harada T, Jones M, Chang T, Wilson K and Long GC. P-ERM is elevated by anti-CD3/TCR autoantibodies and triggers T cell polarization, adhesion and migration in systemic lupus erythematosus patients. **Annual Scientific Meeting** (Washington DC, 2006)
2. **Steve Smith**, Nelson YT, Wang Y, Jones M, Wilson K and Long GC. P-ERM is elevated by anti-CD3/TCR autoantibodies and triggers T cell polarization, adhesion and migration in systemic lupus erythematosus patients. **4th Annual Rheumatology Fellows Forum** (Washington DC, 2006)
3. **Steve Smith**, Wang, Nelson YT, Jones M, Wilson K and Long GC. Interaction between CD44-ERM and TCR signaling contributes to increased adhesion and migration in T lymphocytes from patients with systemic lupus erythematosus. **Annual Scientific Meeting** (Anytown, ST, Nov., 2005)
4. **Steve Smith** and Jayson Y. Interaction of cortactin and Arp2/3 complex is required for sphingosine-1-phosphate induced endothelial cell remodeling. **American Association for Cancer Research 94th Annual Meeting** (Washington DC, July, 2004)
5. **Steve Smith** and Jayson Y. Cortactin-mediated Actin polymerization is required for Sphingosine-1-phosphate induced tube formation and cell migration in endothelial cells. **American Society for Cell Biology 42th Annual Meeting** (Anytown, ST, Dec., 2003)
6. **Steve Smith** and Jayson Y. Cortactin-mediated Actin polymerization is required for Sphingosine-1-phosphate induced tube formation and cell migration in endothelial cells. (American Red Cross, Anytown, ST, Oct., 2002)
7. **Steve Smith** and Jayson Y. Tyrosine phosphorylation of cortactin is required for endothelial migration and tube formation. **Era of Hope meeting for breast cancer** (Anytown, ST, Sept, 2002)
8. **Steve Smith**, Roberts M, Moore J, Smith E, Johnson CC, Estrada M and Jayson Y. Cortactin potentiates bone metastasis of breast cancer cells. **American Society for Cell Biology 41st Annual Meeting** (Washington DC, Dec., 2002)
9. **Steve Smith**, Roberts M, Moore J, Smith E, Johnson CC, Estrada M and Jayson Y. **The role of cortactin in cancer metastasis**. (American Red Cross, Anytown, ST, May, 2001)
10. **Steve Smith**, Moore J and Jayson Y. Tyrosine phosphorylation of cortactin is required for H₂O₂-mediated injury of human endothelial cells. **American Society for Cell Biology 40th Annual Meeting** (Anytown, ST, Dec., 2000)

11. Attended **The American Society for Cell Biology 39th Annual Meeting** (Washington DC, Dec., 1999)
12. **Steve Smith**, Kang TB and L NC. Effect of quercetin on cycLinD1, Rb and c-erbB2 proteins expression from HL-60 leukemia cells. **4th Tumor Conference** (Anytown, ST, Dec., 1997)
13. **Steve Smith**, Worley SJ, Crisp SJ and Bell N. The effect of transfection by Epstein-Barr virus on levels of the intracellular cyclic nucleotide of nasopharyngeal carcinoma lines in vitro. **The 6th Pathological Conference** (Anytown, ST, Sept., 1997)
14. **Steve Smith**, Zhaury J, and Wilson MH. Detection of nasopharyngeal carcinoma micrometastases in peripheral blood by reverse transcriptase-polymerase chain reaction. **The 3rd Tumor Metastasis Conference** (Anytown, ST, Apr., 1996)
15. **Steve Smith**, Worley SJ, Bell N and Crisp SJ. The effect of transfection by Epstein-Barr virus on activities of PKC and TPK from nasopharyngeal carcinoma lines in vitro. **The 3rd Tumor Conference** (Anytown, ST, May, 1996)
16. **Steve Smith**, Bell N, Worley SJ and Crisp SJ. The effect of transfection by Epstein-Barr virus on the changes of growth and differentiation of nasopharyngeal carcinoma lines in vitro and vivo. **The 5th Pathological Conference** (Anytown, ST, Sept., 1994)