

CURRICULUM VITAE

DATE: June 5, 2013

NAME: TIEN C. KO, M.D.

PRESENT TITLE: Jack H. Mayfield, M.D. Distinguished Professor in Surgery and Vice-Chairman for Harris Health System
Chair of the Medical Executive Board of Harris Health System
Department of Surgery, the University of Texas Health Science Center at Houston
Chief of Surgery of Lyndon B. Johnson General Hospital

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BIRTHDATE: June 13, 1960

CITIZENSHIP: United States of America

UNDERGRADUATE EDUCATION: University of California, Los Angeles, B.S. (Biochemistry), 1982

GRADUATE EDUCATION: School of Medicine, University of California, Los Angeles, M.D., 1986

POSTGRADUATE TRAINING:

1986-1987 Intern/Resident I in General Surgery
Loyola University Medical Center,
Maywood, Illinois

1987-1991 Resident II through V in General Surgery
Loyola University Medical Center,
Maywood, Illinois

1991-1993 Research Fellow in Department of Surgery
The University of Texas Medical Branch
Galveston, Texas

1998-1999 Postdoctoral Fellow in Department of Growth and Development, University of California, San Francisco San Francisco, California

POSTGRADUATE TRAINING:

2008 Program for Chiefs of Clinical Services
Department of Health Policy and Management
Harvard School of Public Health
Boston, Massachusetts

ACADEMIC APPOINTMENTS:

1991-1993 Assistant Instructor in Department of Surgery
The University of Texas Medical Branch
Galveston, Texas

1993-1999 Assistant Professor in Departments of Surgery and Human Biological Chemistry and Genetics
The University of Texas Medical Branch,
Galveston, Texas

1998-1999 Visiting Assistant Professor in
Department of Growth and Development
University of California, San Francisco
San Francisco, California

1999-2007 Associate Professor in Departments of Surgery and Biochemistry and Molecular Biology,
Scientist of the Sealy Center for Cancer Cell Biology
University of Texas Medical Branch, Galveston, Texas

2001-2007 Chela and Jimmy Storm Distinguished Professorship in Surgical Research in Department of Surgery, The University of Texas Medical Branch, Galveston, Texas

2003-2007 Director of Real-Time PCR Core Facility,
the Sealy Center for Cancer Cell Biology
University of Texas Medical Branch, Galveston, Texas

2007-present Professor in Surgery and Vice-Chairman for Harris County Hospital District in Department of Surgery,
the University of Texas Health Science Center at Houston

2007-present Chief of Surgery of Lyndon B. Johnson General Hospital

2008-present

Jack H. Mayfield, M.D. Distinguished Professorship in
Surgery, Department of Surgery, the University of Texas
Health Science Center at Houston

HOSPITAL APPOINTMENTS:

1993-present the University of Texas Medical Branch – active staff
2/01/07-present Harris County Hospital District – active staff
3/02/07-present Memorial Hermann Hospital – active staff

LICENSURE:

inactive Illinois License Registration No. 036-077096
1993-present Texas License No. J4881

CERTIFICATION:

1992-present Board Certification-American Board of Surgery
1996-present Advanced Trauma Life Support Instructor No. 17460

PROFESSIONAL ORGANIZATION:

LOCAL:

Singleton Surgical Society
Audit Committee (1997-2003)
President-Elect (2002-2003)
Constitution & Bylaws Committee, Chair (2002-2003)
Board of Directors (2002-present)
President (2003-2004)
Program Committee, Chair (2003-2004)
Financial Advisory Committee, Chair (2003-2004)
Local Arrangement Committee (2003-2004)
Nominating Committee, Chair (2004-2005)
Planning Committee, Chair (2004-2005)
Financial Advisory Committee (2004-2005)

REGIONAL:

American College of Surgeons South Texas Chapter
Secretary and Treasurer (2009-present)
Southern Surgical Association – elected 2003
Texas Surgical Society - elected 2002

NATIONAL:

American Association for Cancer Research – elected 1994

American Board of Surgery, Diplomat
Examination Consultant to the In-Training Examination
Committee (2006-2008)
Associate Examiner (2009)

American College of Surgeons, Fellow – elected 1996
Committee for the Forum on Fundamental Surgical Problems
(2004-present)

PROFESSIONAL ORGANIZATION (continued):

American Gastroenterology Association – elected 1995
Abstract Review Committee for Digestive Disease Week
(2004-2007)

Alpha Omega Alpha Medical Honor Society – elected 1986

American Society for Cell Biology - elected 1994

Association for Academic Surgery
Membership Committee (1995-1997)
Nominating Committee (1997-1998)
Recorder (1998-2000)
Program Committee, Chair (1998-2000)
Executive Council (1998-2006)
President-elect (2000-2001)
President (2001-2002)
Nominating Committee, Chair (2001-2002)

Association for Academic Surgery
AAS/SUS Joint Task Force Committee (2001-2004)

Pancreas Club

Phi Delta Epsilon

Phi Beta Kappa Honor Society- elected 1982

Society of University Surgeons – elected 1996
Committee on Surgical Education (1998-2000)
Audit Committee (2002-2003)
Ad-Hoc Membership Task Force (2005)

Society for Surgery of the Alimentary Tract – elected 1997

Surgical Biology Club I - elected 1998

HONORS AND AWARDS:

Bank of America Achievement Award (1978)
Alumni Scholarship, UCLA (1978-1982)
National Dean's List (1980)
Max Dunn Prize for Biochemistry, UCLA (1982)
Highest Honors in Biochemistry, UCLA (1982)
College Honors, UCLA (1982)
Regents Scholarship, UCLA School of Medicine (1982-1986)
Graduated Summa Cum Laude, UCLA School of Medicine (1986)
Career Development Award, Society for Surgery of the Alimentary Tract
(1991-1993)
Clinical Investigator Award, National Institutes of Health (NCI, 1994-1999)
Shipley Award for the best presentation by a new member, Southern Surgical
Association (2005)
Distinguished Surgeon Award, Association of periOperative Registered Nurses of
Greater Houston (2009)

EDITORIAL POSITIONS:

Editorial Board, *Journal of Surgical Research* (1998-2000)

Ad Hoc Reviewer: American Journal of Physiology
American Journal of Surgery
Cancer
Cancer Letters
Cancer Research
Digestive Diseases and Science
Gastroenterology
Journal of Parenteral and Enteral Nutrition Surgery

SERVICE ON NATIONAL GRANT REVIEW PANELS:

VA Medical Research Service Merit Review Subcommittee for Surgery
(2005-present)
VA Medical Research Service Merit Review Subcommittee for Gastroenterology
(2007)

SERVICE ON THE UNIVERSITY OF TEXAS COMMITTEES:

Recruitment Committee for the Sealy Center for Cancer Cell Biology, UTMB
(2003-2005)
Gastrointestinal Cancer Interest Group, Sealy Center for Cancer Cell Biology,
UTMB (2004-2007)
Sealy Center for Cancer Cell Biology Pre-doctoral Fellowship Committee, UTMB
(2005)
Scientific Integrity Committee, UTMB (2005-2007)
Scientific Integrity Committee, UTMB, Chairman (2006-2007)

**SERVICE ON THE UNIVERSITY OF TEXAS MEDICAL SCHOOL
COMMITTEES:**

Admission Committee of UTMB, Ad Hoc Reviewer (1998-2006)
Herman Barnett Award Committee, UTMB (2003-2006)
OSOM Task Force on Evidence Based Practice, UTMB (2006)
Publications Services Committee, Department of Surgery, Chair (1997-1998)
Resident Education Committee, Department of Surgery (1994-2007)
Computer Committee, Department of Surgery (1997-2007)
Research Committee, Department of Surgery (1997-2007)
Tenure Review Committee, Department of Surgery (2001-2007)
Ad Hoc Committee for Appointment and Tenure, Department of Surgery (2006)
Graduate Student Education Committee (2007-2010)
Research Committee (2007-2010)

SERVICE ON GRADUATE SCHOOL COMMITTEES:

Cell Biology of Tissues Task Force, Cell Biology Graduate Program, UTMB
(2005)

SERVICE TO UT-HMS AFFILIATED HOSPITAL COMMITTEES:

UT-MED Access Task Force (1995-1996)
Operative & Other Invasive Procedures Committee of UTMB Medical Staff
(1995-1997)
UT-MED Managed Care Committee (1996-1998)
Physician Health and Rehabilitation Committee of UTMB Medical Staff
(1996-2007)
Operative & Other Invasive Procedures Committee of UTMB Medical Staff
(2003-2007)
Executive Medical Board of the Harris County Hospital District (2007-present)
Executive Committee of Lyndon B. Johnson General Hospital (2007-present)
Perioperative Executive Committee of Lyndon B. Johnson General Hospital
(2007-present)
Operative Room Committee of Lyndon B. Johnson General Hospital (2007-
present)
Pre-Op Clinic Task Force of Lyndon B. Johnson General Hospital (2007-present)
Patient Access Committee of Harris County Hospital District (2007-present)
Cancer Committee of Harris County Hospital District (2007-present)

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

Harry T. Papaconstantinou, M.D. (1997-1999)
Xiang Ying Xue, M.D. (1997-1999)
Yanna Cao, M.D. (1999-2002)
Yan Liu, Ph.D. (2001-2003)
Michele I. Slogoff, M.D. (2001-2003)
Fazhi Li, M.D. (2001-2004)
Khoa A. Nguyen, Ph.D. (2003-2005)
Junmei Zhao, Ph.D. (2005-2006)
Weili Zhang, M.D., Ph.D. (2005-2008)
Guo-hua Zhang, Ph.D. (2006-2008)
Hongting Zhang, Ph.D. (2007-2008)
Xianghua Liu, Ph.D. (2007-2009)
Wenli Yang, Ph.D. (2008-present)
Chaojun Duan, M.D., M.S. (2009-present)

TEACHING RESPONSIBILITIES:

MEDICAL SCHOOL:

“Colorectal neoplasia,” GI Pathophysiology Conference (1996)
“Small bowel obstruction,” Department of Surgery GI Case Conference (1997)
“Colorectal diseases,” Department of Surgery, Third Year Junior Surgical Clerkship Core Lecture (1997-2000)
Advance Trauma Life Support Student Course (1997-2007)
“Postoperative complications,” Department of Surgery, Third Year Junior Surgical Clerkship Core Lecture (2000-2002)
“Abdominal Workshop,” Second Year Medical Course “the Practice of Medicine 2” (2000-2007)
“GI hormones and the coordination of digestion,” Second Year Medical Course “Gastrointestinal Nutrition” (2002-2007)

GRADUATE SCHOOL:

- “Cyclins as oncogenes,” Graduate Course “Oncogenes” (1995)
- “Oncogenes in intestinal cell cycle regulation,” Graduate Course “Oncogenes” (1997)
- “Cell signaling,” M.D.-Ph.D. Supplement Graduate Course “Molecules, cells and tissues” (1999)
- “Cell proliferation,” M.D.-Ph.D. Supplement Graduate Course “Molecules, cells and tissues” (2000)
- “Cyclins, Cdks and cell cycle control,” Small-Group Research Paper Discussion for Graduate Course “Cell biology” (2000-2001)
- “Neoplasia,” M.D.-Ph.D. Pathobiology Supplementation Course (2003-2004)
- “GI hormones and the coordination of digestion,” GI Pathophysiology Conference (2004)
- “Cancer,” M.D.-Ph.D. Supplement Graduate Course “Molecules, cells and tissues” (2003-2007)
- Cell Biology Small-Group Paper Discussion (BBSC 6402, 2003-2007)

NATIONAL:

- Mock Study Section Faculty, American College of Surgeons’ Young Surgical Investigator Conference, Chantilly, VA (1998)
- “Molecular biology techniques,” Fundamentals of Surgical Research Course, Philadelphia, PA (1999)
- Grantsmanship Faculty and Mock Study Section Faculty, American College of Surgeons’ Young Surgical Investigator Conference, Chantilly, VA (2000)
- “Molecular biology techniques,” Fundamentals of Surgical Research Course, Tampa, FL (2000)
- “Designing an experiment,” Fundamentals of Surgical Research Course, Milwaukee, WI (2001)
- “Researching and writing a scientific manuscript,” Fundamentals of Surgical Research Course, Boston, MA (2002)

CURRENT GRANT SUPPORT:

- Program Project Grant P01-DK35608 “Studies in gastrointestinal endocrinology,” P. I.: Courtney M. Townsend, Jr., the National Institutes of Health (6/01/05-3/31/10), direct costs - \$658,812, role: director of Project 4 “Interactions of GI Hormones and TGF- β ”
- Training Grant T32 CA117834 “Multidisciplinary Training in Cancer Research,” P. I.: E. Brad Thompson, the National Institutes of Health (7/01/06-6/30/11), direct costs - \$977,980, role: Program Faculty

Specialized Center Grant 2P50GM038529 “Molecular pathogenesis of gut injury in multiple organ failure – Project 2” P.I.: Tien C. Ko, the National Institutes of Health (6/01/07-5/31/09), direct costs - \$379,052

PAST GRANT SUPPORT:

Career Development Award “Effects of GI hormone on neoplastic gut tissue,” P.I.: Tien C. Ko, The Society for Surgery of the Alimentary Tract (7/1/91-6/30/93), direct costs - \$40,000

Recruitment Grant “Transforming growth factor beta blocks rat intestinal cell cycle progression by inhibiting cyclin D1 expression,” P.I.: Tien C. Ko, the John Sealy Memorial Endowment Fund for Biomedical Research (2/01/95-7/31/97), direct cost - \$60,000

“A double-blind, randomized, placebo-controlled, multi-center trial to evaluate the efficacy and safety of two doses of lexipafant for the treatment of acute pancreatitis,” P.I.: Tien C. Ko, British Biotech Pharmaceuticals Ltd. (6/30/96-10/20/97), direct cost - \$36,000

R01-CA64701 “Cyclin genes and proliferation of gut epithelial cells,” P.I.: E. Aubrey Thompson, the National Institutes of Health (9/30/94-6/01/99), direct costs - \$502,048, role: Co-Investigator

Clinical Investigator Award, K08-CA64191 “Molecular regulation of the gut epithelial cell cycle,” P.I.: Tien C. Ko, the National Institutes of Health (9/30/94-6/29/00), direct costs - \$398,850

“Experimental studies related to protocol development using α -difluoromethylornithine and other cancer drugs,” P. I.: Courtney M. Townsend, Jr., Walls Medical Research Foundation (7/01/98-6/30/01), direct cost - \$363,400, role: Co-Investigator

Program Project Grant P01-DK35608 “Studies in gastrointestinal endocrinology,” P. I.: Courtney M. Townsend, Jr., the National Institutes of Health (4/01/01-3/31/05), direct costs - \$187,918, role: Director of Tissue Culture Core

Program Project Grant P01-DK35608 “Studies in gastrointestinal endocrinology,” P. I.: Courtney M. Townsend, Jr., the National Institutes of Health (6/01/05-2/01/07), direct costs - \$368,747, role: Director of Tissue Culture Core

PAST GRANT SUPPORT (continued):

R01 DK60105 “Study of growth regulation in surgical diseases of the gut,” P.I.:
Tien C. Ko, the National Institutes of Health (8/01/01-3/31/08), direct
costs - \$1,187,500

Training Grant T32-DK007639 “Surgical research training in gastrointestinal
endocrinology,” P.I.: B. Mark Evers, the National Institutes of Health
(7/01/03-6/30/08), direct costs - \$812,895, role: Core Preceptor

PUBLICATIONS:**A. Abstracts:**

1. Abrass, I.B., **Ko, T.C.**, and Scarpace, P.J.: Platelet alpha-adrenergic receptor function in aging. *Clin. Res.* 32:479A, 1984.
2. **Ko, T.C.**, Prinz, R.A., Castelli, M., Marks, W., Djuricin, G., Jacobs, H.K., and La Barbara, M.: Effect of SMS 201-295 on bile induced acute canine pancreatitis. *Pancreas* 4:624, 1989.
3. Fedorak, I.J., Thompson, K., Djuricin, G., **Ko, T.C.**, and Prinz, R.A.: Are the varieties of pancreatic infection distinct clinical entities? *Pancreas* 6:699, 1991.
4. **Ko, T.C.**, Evers, B.M., Chung, D.H., Townsend, C.M. Jr., Carraway, R.E., Uchida, T., and Thompson, J.C.: Xenopsin stimulates small intestinal growth in rats. *Gastroenterology* 102:A561, 1992.
5. **Ko, T.C.**, Beauchamp, R.D., Ishizuka, J., Townsend, C.M. Jr., and Thompson, J.C.: Transforming growth factor beta uncouples ornithine decarboxylase activation from DNA synthesis in rat jejunal cells. *Regul. Pept.* 40:183, 1992.
6. Zhang, T., Beauchamp, R.D., **Ko, T.C.**, Sheng, H.M., Gomez, G., Townsend, C.M. Jr., Thompson, J.C., and Greeley, G.H. Jr.: Phorbol ester-induced growth inhibition and immediate-early gene expression in a human pancreatic carcinoid cell line. *Gastroenterology* 104:A466, 1993.
7. **Ko, T.C.**, Thompson, E.A., and Beauchamp, R.D.: Transforming growth factor beta inhibits cyclin D1 induction during G1 phase of the cell cycle. *Proc. Am. Assoc. Cancer Res.* 35:26, 1994.
8. **Ko, T.C.**, Beauchamp, R.D., and Thompson, E.A.: Cyclin D1 antisense oligonucleotide inhibits intestinal epithelial cell proliferation. *Gastroenterology* 106:A243, 1994.
9. **Ko, T.C.**, Sheng, H.M., Thompson, E.A., and Beauchamp, R.D.: Transforming growth factor- β 1 inhibits transcription of cyclin D1 in intestinal epithelial cells. *Gastroenterology* 106:A244, 1994.
10. **Ko, T.C.**, Sheng, H.M., Thompson, E.A., and Beauchamp, R.D.: Transforming growth factor- β 1 regulation of cyclin D1 in intestinal epithelial cells. *Proc. Am. Assoc. Cancer Res.* 36:34, 1995.
11. **Ko, T.C.**, Sheng, H.M., Sheng, G.G., Thompson, E.A., and Beauchamp, R.D.: Effect of fasting and refeeding on cyclin D3 and Cdk4 expression in rat jejunum. *Gastroenterology* 108:A981, 1995.
12. **Ko, T.C.**, Beauchamp, R.D., Townsend, C.M. Jr., and Thompson, J.C.: Glutamine and polyamines promote intestinal cell proliferation by separate intracellular mechanisms. *Gastroenterology* 108:A1226, 1995.
13. **Ko, T.C.**, Sheng, H.M., Thompson, E.A., and Beauchamp, R.D.: Transforming growth factor- β 1 inhibits G1 cyclin-dependent kinase activities in intestinal epithelial cells. *Proc. Am. Assoc. Cancer Res.* 37:4, 1996.
14. Zhang, T., Nanney, L., **Ko, T.C.**, Luongo, C., Lamps, L., DuBois, R.N., and Beauchamp, R.D.: Overexpression of cyclin D1 in intestinal polyposis of Min mice and human familial adenomatous polyposis subjects. *Proc. Am. Assoc. Cancer Res.* 37:112, 1996.

A. Abstracts (continued):

15. **Ko, T.C.**, Thompson, J.C., and Thompson, E.A.: Effects of starvation and glutamine on intestinal epithelial cell cycle and Cdk2 activity. *Gastroenterology* 110:A812, 1996.
16. Iseki, H., **Ko, T.C.**, Guo, Y.-S., and Townsend, C.M. Jr.: Olomoucine blocks IGF-I-stimulated proliferation and cyclin-dependent kinase activity of human gastric cancer cells. *Proc. Am. Assoc. Cancer Res.* 38:138, 1997.
17. Fan, R.S., **Ko, T.C.**, and Brattain, M.G.: Alteration in control of cell cycle transit associated with growth factor independence. *Proc. Am. Assoc. Cancer Res.* 38:496, 1997.
18. Gong, J.G., **Ko, T.C.**, and Brattain, M.G.: Stimulation of p21/WAF1 expression by TGF- β 1 in G1 is required for inhibition of cyclin A/CDK2 kinase activity and cell cycle transit. *Proc. Am. Assoc. Cancer Res.* 38:498, 1997.
19. Iseki, H., **Ko, T.C.**, Xue, X.Y., and Townsend, C.M. Jr.: A novel strategy to inhibiting growth of human pancreatic cancer cells by blocking cyclin-dependent kinase activity. *Gastroenterology* 112:A1451, 1997.
20. Fan, R.S., **Ko, T.C.**, and Brattain, M.G.: Lack of cyclin A kinase activity associated with incomplete pRb phosphorylation and absence of cell cycle progression. *Proc Am Assoc Cancer Res* 39:255, 1998.
21. Ding, Q.-M., **Ko, T.C.**, and Evers, B.M.: Differentiation of Caco-2 intestinal cells is associated with G₁ arrest and suppression of cyclin-dependent kinase. *Gastroenterology* 114:A874, 1998.
22. **Ko, T.C.**, Pan, F., Brown, D.B., Thompson, E.A., and Beauchamp, R.D.: Cyclin D3 is essential for intestinal epithelial cell proliferation. *Gastroenterology* 114:A899, 1998.
23. Papaconstantinou, H.T., Powell, S.J., Hellmich, M.R., Townsend, C.M. Jr., and **Ko, T.C.**: Glutamate and asparagine protect against the induction of apoptosis in glutamine-deprived intestinal epithelial cells. *Gastroenterology* 114:A1401, 1998.
24. DebRoy, M., Wolf, S., Matin, S., Rajaraman, S., **Ko, T.C.**, Norman, J., and Thompson, J.C.: Small bowel epithelial apoptosis is increased in IL-1 receptor knockout mice. *Dig. Dis. Sci.* 43:1856, 1998.
25. Papaconstantinou, H.T., Chung, D.H., Zhang, W., Ansari, N.H., Hellmich, M.R., Townsend, C.M. Jr., and **Ko, T.C.**: Caspase 2 and 3 modulate glutamine-starvation induced apoptosis in enterocytes. *Gastroenterology* 116:A1325, 1999.
26. Wolf, S.E., Papaconstantinou, H., **Ko, T.C.**, Thompson, M., and Thompson, J.C.: Decreased gut epithelial cell viability in burn serum. *Gastroenterology* 116:A1370, 1999.
27. Papaconstantinou, H.T., Hellmich, M.R., Townsend, C.M. Jr., and **Ko, T.C.**: Glutamine starvation-induced cell cycle arrest is associated with the induction of p21^{Cip1} and does not require caspase activation. *J. Surg. Res.* 86:264-265, 1999.
28. Cao, Y., Xie, C., Yu, W., Townsend, C.M. Jr., Thompson, E.A., and **Ko, T.C.**: Growth regulation of gut epithelial cells by TGF- β . *J. Surg. Res.* 93:339-340, 2000.
29. Li, F., Cao, Y., Song, D., Townsend, C.M. Jr., and **Ko, T.C.**: TGF- β /Smad signaling in colon cancer cells. *J. Am. Coll. Surg.* 195 (suppl):S14, 2002.

A. Abstracts (continued):

30. Cao, Y., Liu, Y., Li, F., Song, D., Hellmich, M.R., Mileski, W.J., Townsend, C.M. Jr., and **Ko, T.C.**: A novel mechanism of repression of TGF- β signaling in human colon cancers. *J. Surg. Res.* 107:279, 2002.
31. Slogoff, M.I., Li, F., Cao, Y., Guo, Y.-S., Hellmich, M.R., Townsend, C.M. Jr., and **Ko, T.C.**: Bombesin potentiates transforming growth factor- β (TGF- β)-mediated cell death in intestinal epithelial cells. *J. Surg. Res.* 107:293, 2002.
32. Cao, Y., Yu, W., Xie, C., Xue, X.Y., Choy, L., Townsend, C.M. Jr., Thompson, E.A., and **Ko, T.C.**: Critical role of Smad3 in TGF- β -mediated apoptosis and growth inhibition in epithelial cells. *Mol. Biol. Cell* 13 (suppl):16a, 2002.
33. Liu, Y., Cao, Y., Sambandam, K., Townsend, C.M. Jr., and **Ko, T.C.**: Identification of alternatively spliced forms of Evi-1 oncogene in human colorectal cancers. *Ann. Surg. Oncol.* 10 (suppl):S30-S31, 2003.
34. Li, F., Cao, Y., Townsend, C.M. Jr., and **Ko, T.C.**: p38 MAPK signaling pathway is involved in transforming growth factor- β (TGF- β)/Smad3-induced apoptosis. *Gastroenterology* 124:A275, 2003.
35. Cao, Y., Chen, L., Townsend, C.M. Jr., Thompson, E.A., and **Ko, T.C.**: Identification of apoptotic genes mediating transforming growth factor-beta/Smad3-induced cell death in intestinal epithelial cells using genomic approach. *J. Am. Coll. Surg.* 197 (suppl):S7, 2003.
36. Wang, J.J., Sergina, N., **Ko, T.C.**, Gong, J., Wang, X.F., and Brattain, M.G.: Autocrine negative TGF β controls cell cycle inhibition through a p21 mediated mechanism. *Proc. Am. Assoc. Cancer. Res.* 45:79, 2004.
37. Cao, Y., Li, F., Hellmich, M.R., Guo, Y.-S., Sheng, H.M., Townsend, C.M. Jr., and **Ko, T.C.**: Transforming growth factor- β and bombesin synergistically activate cyclooxygenase-2. *Proc. Am. Assoc. Cancer. Res.* 45:939, 2004.
38. Cao, Y., Liu, Y., Chen, L., Thompson, E.A., Townsend, C.M. Jr., and **Ko, T.C.**: Inhibitor of differentiation (Id)-2 is a downstream target gene of transforming growth factor (TGF)- β in the regulation of apoptosis. *Gastroenterology* 126:A137, 2004.
39. Cao, Y., Deng, C., and **Ko, T.C.**: TGF- β regulates multiple transcription factors through repression of Id2 for induction of apoptosis in gut epithelial cells. *Gastroenterology* 128 (suppl 2):A603, 2005.
40. Nguyen, K.A., Cao, Y., and **Ko, T.C.**: N-terminal domain of Smad3 plays an important role in TGF- β -induced apoptosis of gut epithelial cells. *Gastroenterology* 128 (suppl 2):A605, 2005.
41. Cao, Y., Townsend, C.M. Jr., and **Ko, T.C.**: Transforming growth factor-beta (TGF- β) induces vascular endothelial growth factor (VEGF) and plasminogen activator inhibitor-1 (PAI-1) gene expression through Smad3 transcription factor. *J. Am. Coll. Surg.* 201 (suppl):S17-S18, 2005.
42. Cao, Y., Deng, C., Townsend, C.M. Jr., and **Ko, T.C.**: TGF- β inhibits AKT-induced transformation in intestinal epithelial cells. *J. Surg. Res.* 130:192, 2006.
43. **Cao, Y.**, W. Zhang, X. Liu, G-H Zhang, , C.M. Townsend Jr., and T.C. Ko. Hypoxia inducing factor-1 α mediates TGF- β -induced apoptosis in intestinal epithelial cells. *Gastroenterology* 132:A382, 2007.

B. Refereed Original Articles in Journals:

1. **Ko, T.C.**, Bertram, M.F., and Prinz, R.A., Castelli, M., Djuricin, G., and Jacobs, H.K.: Effect of somatostatin analogue and cholecystokinin receptor antagonist on bile-induced acute canine pancreatitis. *Am. Surgeon* 58:213-219, 1992.
2. **Ko, T.C.**, Flisak, M., and Prinz, R.A.: Selective intra-arterial methylene blue injection: a novel method of localizing gastrinoma. *Gastroenterology* 102:1062-1064, 1992.
3. Chung, D.H., Evers, B.M., Townsend, C.M. Jr., Herndon, D.N., **Ko, T.C.**, Uchida, T., and Thompson, J.C.: Cytokine regulation of gut ornithine decarboxylase gene expression and enzyme activity. *Surgery* 112:364-369, 1992.
4. Fedorak, I.J., **Ko, T.C.**, Djuricin, G., McMahon, M., Thompson, K., and Prinz, R.A.: Secondary pancreatic infections: are they distinct clinical entities? *Surgery* 112:824-831, 1992.
5. **Ko, T.C.**, Beauchamp, R.D., Ishizuka, J., Townsend, C.M. Jr., and Thompson, J.C.: Mechanism of action of transforming growth factor-beta on rat jejunal cells. *Surg. Forum* 43:135-137, 1992.
6. Beauchamp, R.D., **Ko, T.C.**, Townsend, C.M. Jr., and Thompson, J.C.: Transforming growth factor-beta stimulates ornithine decarboxylase in murine fibroblasts. *Surg. Forum* 43:670-672, 1992.
7. Fedorak, I.J., **Ko, T.C.**, Gordon, D., Flisak, M., and Prinz, R.A.: Localization of islet cell tumors of the pancreas: a review of current techniques. *Surgery* 113:242-249, 1993.
8. **Ko, T.C.**, Beauchamp, R.D., Townsend, C.M. Jr., and Thompson, J.C.: Glutamine is essential for epidermal growth factor-stimulated intestinal cell proliferation. *Surgery* 114:147-154, 1993.
9. Prinz, R.A., **Ko, T.C.**, Maltz, S.B., Reynes, C.J., Marsan, R.E., and Freeark, R.J.: Common bile duct obstruction by free floating tumor. *H. P. B. Surg.* 6:319-323, 1993.
10. Henderson, A.M., Beauchamp, R.D., **Ko, T.C.**, Townsend, C.M. Jr., and Thompson J.C.: Lipopolysaccharide (LPS) induces AP-1 nuclear transcription factor in mouse liver. *Surg. Forum* 44:64-66, 1993.
11. **Ko, T.C.**, Beauchamp, R.D., Townsend, C.M. Jr., and Thompson, J.C.: Transforming growth factor-beta inhibits rat intestinal cell growth by regulating cell cycle specific gene expression. *Am. J. Surg.* 167:14-20, 1994.
12. **Ko, T.C.**, Sheng, H.M., Reisman, D., Thompson, E.A., and Beauchamp, R.D.: Transforming growth factor- β 1 inhibits cyclin D1 expression in intestinal epithelial cells. *Oncogene* 10:177-184, 1995.
13. Upp, J.R. Jr., **Ko, T.C.**, Townsend, C.M. Jr., Thompson, J.C., and Beauchamp, R.D.: Glutamine regulates cell cycle protein expression for intestinal cell growth. *Surg. Forum* 46:177-179, 1995.
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20. Matin, S., Ikeda, H., Guo, Y.-S., Wolf, S.E., **Ko, T.C.**, Rajaraman, S., Herndon, D.N., and Thompson, J.C.: Burn-induced stimulation of apoptosis-related genes in rat small bowel. *Surg. Forum* 48:221-223, 1997.
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27. Papaconstantinou, H.T., Hwang, K.O., Rajaraman, S., Hellmich, M.R., Townsend, C.M. Jr., and **Ko, T.C.**: Glutamine deprivation induces apoptosis in intestinal epithelial cells. *Surgery* 124:152-160, 1998.
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B. Refereed Original Articles in Journals (continued):

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31. Litvak, D.A., Papaconstantinou, H.T., **Ko, T.C.**, and Townsend, C.M. Jr.: A novel cytotoxic agent for human carcinoid tumors. *Surgery* 124:1071-1076, 1998.
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C. Chapters:

1. Thompson, E.A., **Ko, T.C.**, and Beauchamp, R.D.: TGF- β inhibition of intestinal epithelial cell proliferation: G1 cyclins, cyclin-dependent kinases, and cyclin kinase inhibitors. In: Vedeckis, W.V. (ed). *Hormones and cancer*. Birkhauser Boston: Cambridge, MA, 1996, pp.43-71.
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6. **Ko, T.C.**: Colon and rectum. In: Townsend, C.M. Jr. (ed). *Pocket Companion to Sabiston's Textbook of Surgery*. WB Saunders Company, Philadelphia, PA, 2002, 492-509.
7. **Ko, T.C.**, and Evers, B.M.: Molecular and cell biology. In: Townsend, C.M. Jr. (ed). *Sabiston's Textbook of Surgery*. 17th Ed. WB Saunders Company: Philadelphia, PA, 2004, 27-44.
8. **Ko, T.C.**, and Evers, B.M.: Molecular and cell biology. In: Townsend, C.M. Jr. (ed). *Sabiston's Textbook of Surgery*. 18th Ed. WB Saunders Company: Philadelphia, PA, 2008, 26-43.

D. Other Professional Communications:

Oral Presentations:

1. **Ko, T.C.**, Bertram, M.F., Prinz, R.A., Castelli, M., Marks, W., Djuricin, G., and Jacobs, H.K.: Effect of the cholecystokinin receptor antagonist L-364,718 on bile induced acute canine pancreatitis. University Surgical Residents' Conference, Los Angeles, CA, February 10, 1990.
2. **Ko, T.C.**, Bertram, M.F., Prinz, R.A., Castelli, M., Djuricin, G., and Jacobs, H.K.: Effect of somatostatin analogue and cholecystokinin receptor antagonist on bile-induced acute canine pancreatitis. Midwest Surgical Association, Mackinac Island, MI, August 20, 1990.
3. Prinz, R.A., **Ko, T.C.**, Malt, S.B., Reynes, C.J., Marsan, R.E., and Freeark, R.J.: Common bile duct obstruction by fee floating tumor. International Surgical Week, Stockholm, Sweden, August 25, 1991.
4. Chung, D.H., Evers, B.M., Townsend, C.M. Jr., Herndon, D.N., **Ko, T.C.**, Uchida, T., and Thompson, J.C.: Cytokine regulation of gut ornithine decarboxylase gene expression and enzyme activity. Society of University Surgeons, Cincinnati, OH, February 13, 1992.
5. Fedorak, I.J., **Ko, T.C.**, Djuricin, G., McMahon, M., Thompson, K., and Prinz, R.A.: Secondary pancreatic infections: are they distinct clinical entities? Central Surgical Association, Madison, WS, March 7, 1992.
6. **Ko, T.C.**, Beauchamp, R.D., Ishizuka, J., Townsend, C.M. Jr., and Thompson, J.C.: Mechanism of action of transforming growth factor-beta on rat jejunal cells. Surgical Forum, New Orleans, LA, October 12, 1992.
7. Beauchamp, R.D., **Ko, T.C.**, Townsend, C.M. Jr., and Thompson, J.C.: Transforming growth factor-beta stimulates ornithine decarboxylase in murine fibroblasts. Surgical Forum, New Orleans, LA, October 13, 1992.
8. **Ko, T.C.**, Beauchamp, R.D., Townsend, C.M. Jr., and Thompson, J.C.: Basic fibroblast growth factor-stimulated cell cycle progression in fibroblasts is mediated by ornithine decarboxylase activation. Association for Academic Surgery, Montreal, Quebec, Canada, November 20, 1992.
9. **Ko, T.C.**, Beauchamp, R.D., Townsend, C.M. Jr., and Thompson, J.C.: Glutamine is essential for epidermal growth factor-stimulated intestinal cell growth. Society of University Surgeons, Seattle, WA, February 11, 1993.
10. **Ko, T.C.**, Ishizuka, J., Evers, B.M., Beauchamp, R.D., Townsend, C.M. Jr., and Thompson, J.C.: Mechanism of growth regulation of human pancreatic carcinoid cells. Society of Surgical Oncology 46th Cancer Symposium, Los Angeles, CA, March 21, 1993.
11. **Ko, T.C.**, Beauchamp, R.D., Townsend, C.M. Jr., and Thompson, J.C.: Transforming growth factor beta inhibits rat intestinal cell growth by regulating cell cycle specific gene expression. Society for Surgery of the Alimentary Tract, Boston, MA, May 17, 1993.
12. Henderson, A.M., Beauchamp, R.D., **Ko, T.C.**, Townsend, C.M. Jr., and Thompson, J.C.: Lipopolysaccharide (LPS) induces AP-1 nuclear transcription factor in mouse liver. Surgical Forum, San Francisco, October 10, 1993.

Oral Presentations (continued):

13. Upp, J.R. Jr., **Ko, T.C.**, Townsend, C.M. Jr., Thompson, J.C., and Beauchamp, R.D.: Glutamine regulates cell cycle protein expression for intestinal cell growth. Surgical Forum, New Orleans, LA, October 24, 1995.
14. **Ko, T.C.**, Pan, F., Brown, D.B., Thompson, E.A., and Beauchamp, R.D.: Intracellular regulation of intestinal cell proliferation: a study using microinjection technology. Surgical Forum, New Orleans, LA, October 24, 1995.
15. Ehrenfried, J.A., **Ko, T.C.**, Thompson, E.A., and Evers, B.M.: Novel molecular mechanisms involved in hepatic regeneration. Association for Academic Surgery, Dearborn, MI, November 9, 1995.
16. **Ko, T.C.**, Beauchamp, R.D., Townsend, C.M. Jr., and Thompson, J.C.: Optimal intestinal cell proliferation requires both glutamine and polyamine. Association for Academic Surgery, Dearborn, MI, November 9, 1995.
17. Ehrenfried, J.A., **Ko, T.C.**, Thompson, E.A., and Evers, B.M.: Novel molecular mechanisms involved in hepatic regeneration. Singleton Surgical Society, Galveston, TX, April 13, 1996.
18. Matin, S., Ikeda, H., **Ko, T.C.**, Guo, Y.-S., Wolf, S., Rajaraman, S., Herndon, D.N., and Thompson, J.C.: Gut mucosal apoptosis is increased rapidly after burn injury in rats. South Texas Chapter of the American College of Surgeons Committee on Trauma, Oklahoma City, OK, November 2, 1996.
19. Iseki, H., Hellmich, M.R., **Ko, T.C.**, and Townsend, C.M. Jr.: Human gastric cancer cells proliferate independent of exogenous growth factors through activation of Cdk2. Association for Academic Surgery, Chicago, IL, November 16, 1996.
20. Iseki, H., **Ko, T.C.**, Hellmich, M.R., and Townsend, C.M. Jr.: Cyclin-dependent kinase inhibitors block proliferation of human gastric cancer cells. Society of University Surgeons, Tampa, FL, February 13, 1997.
21. Iseki, H., **Ko, T.C.**, Xue, X.Y., and Townsend, C.M. Jr.: A novel strategy for inhibiting growth of human pancreatic cancer cells by blocking cyclin-dependent kinase activity. Society for Surgery of the Alimentary Tract, Washington D.C., May 14, 1997.
22. **Ko, T.C.**, Seapan, A., Xue, X.Y., and Townsend, C.M. Jr.: Cyclin-dependent kinase 2 is required for G1/S transition in rat intestinal epithelial cells. Surgical Forum, Chicago, IL, October 14, 1997.
23. Matin, S., Ikeda, H., Guo, Y.-S., Wolf, S.E., **Ko, T.C.**, Rajaraman, S., Herndon, D.N., and Thompson, J.C.: Burn-induced stimulation of apoptosis-related genes in rat small bowel. Surgical Forum, Chicago, IL, October 14, 1997.
24. Papaconstantinou, H.T., Hwang, K.O., Hellmich, M.R., Townsend, C.M. Jr., and **Ko, T.C.**: Glutamine deprivation triggers apoptosis in intestinal epithelial cells. Society of University Surgeons, Milwaukee, WI, February 12, 1998.

Oral Presentations (continued):

25. Litvak, D.A., Evers, B.M., Hellmich, M.R., **Ko, T.C.**, Hwang, K.O., and Townsend, C.M. Jr.: Gut differentiation is associated with apoptosis and early induction of p21^{Waf1/Cip1}. Society of University Surgeons, Milwaukee, WI, February 12, 1998.
26. Papaconstantinou, H.T., Hwang, K.O., Helmet, M., Rajaraman, S., Townsend, C.M. Jr., and **Ko, T.C.**: Glutamine starvation induces apoptosis in cultured rat intestinal epithelial cells. American College of Surgeons, South Texas Chapter Annual Meeting, San Antonio, TX, February 20, 1998.
27. Hwang, K.O., Papaconstantinou, H.T., Hellmich, M.R., Townsend, C.M. Jr., and **Ko, T.C.**: Glutamine starvation promotes apoptosis in enterocytes. The National Student Research Forum, Galveston, TX, April 1998.
28. Litvak, D.A., Papaconstantinou, H.T., **Ko, T.C.**, and Townsend, C.M. Jr.: A novel cytotoxic agent for human carcinoid. American Association of Endocrine Surgeons, Orlando, FL, April 27, 1998.
29. **Ko, T.C.**, Xue, X.Y., Papaconstantinou, H.T., Hwang, K.O., and Townsend, C.M. Jr.: A novel synthetic inhibitor of human pancreatic cancer cells. Pancreas Club, New Orleans, LA, May 17, 1998.
30. **Ko, T.C.**, Pan, F., Brown, D.B., Thompson, E.A., and Beauchamp, R.D.: Cyclin D3 is essential for intestinal epithelial cell proliferation. Society for Surgery of the Alimentary Tract, New Orleans, LA, May 18, 1998.
31. Ding, Q.-M., **Ko, T.C.**, and Evers, B.M.: Differentiation of Caco-2 intestinal cells is associated with G₁ arrest and suppression of cyclin-dependent kinase. American Gastroenterology Association, New Orleans, LA, May 20, 1998.
32. Papaconstantinou, H.T., Boldogh, I., Hellmich, M.R., Townsend, C.M. Jr., and **Ko, T.C.**: Glutamine deprivation decreases glutathione levels in intestinal epithelial cells. Surgical Forum, Orlando, FL, October 26, 1998.
33. Papaconstantinou, H.T., Zhang, W., Ansari, N.H., Hellmich, M.R., Townsend, C.M. Jr., and **Ko, T.C.**: Caspases 2, 3 and 9 modulate methotrexate-induced apoptosis in intestinal epithelial cells. The National Student Research Forum, Galveston, TX, April 9, 1999.
34. Papaconstantinou, H.T., Chung, D.H., Zhang, W., Ansari, N.H., Hellmich, M.R., Townsend, C.M. Jr., and **Ko, T.C.**: Caspase 2 and 3 modulate glutamine-starvation induced apoptosis in enterocytes. Society for Surgery of the Alimentary Tract, Orlando, FL, May 18, 1999.
35. Papaconstantinou, H.T., Zhang, W., Ansari, N.H., Hellmich, M.R., Townsend, C.M. Jr., and **Ko, T.C.**: Caspase 2, 3, and 9 modulate methotrexate-induced apoptosis in intestinal epithelial cells. Singleton Surgical Society, Galveston, TX, June 11, 1999.
36. Papaconstantinou, H.T., Chung, D.H., Townsend, C.M. Jr., and **Ko, T.C.**: Glutamine-starvation induces mitochondrial damage independent of caspase activation in intestinal epithelial cells. Surgical Forum, San Francisco, CA, October 13, 1999.

Oral Presentations (continued):

37. **Ko, T.C.:** Smad signaling in nontransformed gut epithelial cells. Symposium on Signal Transduction and Cancer, South Padre Island, TX, November 13, 1999.
38. Papaconstantinou, H.T., Hellmich, M.R., Townsend, C.M. Jr., and **Ko, T.C.:** Glutamine starvation-induced cell cycle arrest is associated with the induction of p21^{Cip1} and does not require caspase activation. Association for Academic Surgery, Philadelphia, PA, November 19, 1999.
39. Cao, Y., Xie, C., Yu, W., Townsend, C.M. Jr., Thompson, E.A., and **Ko, T.C.:** Growth regulation of gut epithelial cells by TGF- β . Association for Academic Surgery, Tampa, FL, November 4, 2000.
40. Naoum, J.J., Mileski, W.J., Daller, J.A., Gomez, G.A., Gore, D.C., Kimbrough, T.D., **Ko, T.C.**, Sanford, A.P., and Wolf, S.E.: Application of a clinical guideline which encourages the use of abdominal CT scan decreases the frequency of misdiagnosis in cases of suspected appendicitis. Southwestern Surgical Congress, Coronado, CA, April 8, 2002.
41. Cao, Y., Liu, Y., Li, F., Song, D., Hellmich, M.R., Mileski, W.J., Townsend, C.M. Jr., and **Ko, T.C.:** New insights into colon carcinogenesis using molecular techniques. Texas Surgical Association, Austin, TX, September 28, 2002.
42. Li, F., Cao, Y., Song, D., Townsend, C.M. Jr., and **Ko, T.C.:** TGF- β /Smad signaling in colon cancer cells. Surgical Forum, San Francisco, CA, October 8, 2002.
43. Cao, Y., Liu, Y., Li, F., Song, D., Hellmich, M.R., Mileski, W.J., Townsend, C.M. Jr., and **Ko, T.C.:** A novel mechanism of repression of TGF- β signaling in human colon cancers. Association for Academic Surgery, Boston, MA, November 8, 2002.
44. Slogoff, M.I., Li, F., Cao, Y., Guo, Y.-S., Hellmich, M.R., Townsend, C.M. Jr., and **Ko, T.C.:** Bombesin potentiates transforming growth factor- β (TGF- β)-mediated cell death in intestinal epithelial cells. Association for Academic Surgery, Boston, MA, November 9, 2002.
45. Carter, Y.M., Haque, A., and **Ko, T.C.:** Primary adenocarcinoma of the appendix: single institutional experience from 1984-2002. American College of Surgeons, South Texas Chapter Annual Meeting, Houston, TX, March 7, 2003.
46. Liu, Y., Cao, Y., Sambandam, K., Townsend, C.M. Jr., and **Ko, T.C.:** Identification of alternatively spliced forms of Evi-1 oncogene in human colorectal cancers. Society of Surgical Oncology 56th Annual Cancer Symposium, Los Angeles, CA, March 8, 2003.
47. Bawduniak, J.J., Carter, Y.M., and **Ko, T.C.:** Parathyroid carcinoma: UTMB's experience and review of the current literature. Singleton Surgical Society, Galveston, TX, June 6, 2003.
48. Carter, Y.M., Haque, A., Shah, R.K., Walser, E.M., and **Ko, T.C.:** Primary adenocarcinoma of the appendix: UTMB's experience from 1984-2003. Singleton Surgical Society, Galveston, TX, June 6, 2003.

Oral Presentations (continued):

49. Cao, Y., Chen, L., Townsend, C.M. Jr., Thompson, E.A., and **Ko, T.C.:** Identification of apoptotic genes mediating transforming growth factor-beta/Smad3-induced cell death in intestinal epithelial cells using genomic approach. Surgical Forum, Chicago, IL, October 20, 2003.
50. Cao, Y., Townsend, C.M. Jr., and **Ko, T.C.:** Transforming growth factor-beta (TGF- β) induces vascular endothelial growth factor (VEGF) and plasminogen activator inhibitor-1 (PAI-1) gene expression through Smad3 transcription factor. Surgical Forum, San Francisco, CA, October 19, 2005.
51. Nguyen, K.A., Cao, Y., Chen, J.R., Townsend, C.M. Jr., and **Ko, T.C.:** Dietary fiber enhances a tumor suppressor signaling pathway in the gut. Southern Surgical Association, Hot Springs, VA, December 5, 2005.
52. Cao, Y., Deng, C., Townsend, C.M. Jr., and **Ko, T.C.:** TGF- β inhibits AKT-induced transformation in intestinal epithelial cells. Society of University Surgeons, San Diego, CA, February 9, 2006.
53. Zhang, W., Cao, Y., Falzon, M., Townsend, C.M. Jr., and **Ko, T.C.;** PTHrP is a novel mediator of TGF- β -induced apoptosis in human hepatocellular carcinoma cells. Academic Surgical Congress, Phoenix, AZ, February 7, 2007.
54. Zhang, W., Cao, Y., Falzon, M., Townsend, C.M. Jr., and **Ko, T.C.;** The role of p38^{MAPK} α in the cross-talk between TGF- β receptors and GRP-R. Academic Surgical Congress, Huntington Beach, CA, February 15, 2008.
55. Zhang, H., Zhang, G., Liu, X.H., Ferraro, N., Jackson, L., Evers, B.M., Cao, Y., and **Ko, T.C.:** Downregulation of PTHrP signaling pathway contributes to liver regeneration. Academic Surgical Congress, Fort Myers, FL, February 6, 2009.

Poster Presentations:

1. **Ko, T.C.**, Prinz, R.A., Castelli, M., Marks, W., Djuricin, G., Jacobs, H.K., and LaBarbara, M.: Effect of SMS 201-995 on bile induced acute canine pancreatitis. American Pancreatic Association, Chicago, IL, November 2, 1989.
2. **Ko, T.C.**, Bertram, M.F., Prinz, R.A., Castelli, M., Marks, W., Djuricin, G., and Jacobs, H.K.: Effects of the cholecystokinin receptor antagonist L-364,718 on bile induced acute canine pancreatitis. Pancreas Club, San Antonio, TX, May 14, 1990.
3. **Ko, T.C.**, Flisak, M., and Prinz, R.A.: Superselective intraarterial methylene blue injection-a novel method of localizing gastrinoma. Pancreas Club, New Orleans, LA May 19, 1991.
4. Fedorak, I.J., **Ko, T.C.**, Thompson, K., and Prinz, R.A.: Are the varieties of pancreatic infection distinct clinical entities? Pancreas Club, New Orleans, LA, May 19, 1991.
5. **Ko, T.C.**, Evers, B.M., Chung, D.H., Townsend, C.M. Jr., Carraway, R.E., Uchida, T., and Thompson, J.C.: Xenopsin stimulates small intestinal growth in rats. American Gastroenterology Association, San Francisco, CA, May 10, 1992.
6. **Ko, T.C.**, Beauchamp, R.D., Ishizuka, J., Townsend, C.M. Jr., and Thompson, J.C.: Transforming growth factor beta uncouples ornithine decarboxylase activation from DNA synthesis in rat jejunal cells. 9th International Symposium on Gastrointestinal Hormones, Leuven, September 1, 1992.
7. **Ko, T.C.**, Ishizuka, J., Cerdas, K., Evers, B.M., Beauchamp, R.D., Townsend, C.M. Jr., and Thompson, J.C.: Ornithine decarboxylase activity is essential for growth of human pancreatic carcinoid cells. International Symposium on Polyamines in Cancer, Montgomery, TX, November 8, 1992.
8. Zhang, T., Beauchamp, R.D., **Ko, T.C.**, Sheng, H.M., Gomez, G., Townsend, C.M. Jr., Thompson, J.C., and Greeley, G.H. Jr.: Phorbol ester-induced growth inhibition and immediate-early gene expression in a human pancreatic carcinoid cell line. American Gastroenterology Association, Boston, MA, May 19, 1993.
9. **Ko, T.C.**, Thompson, E.A., and Beauchamp, R.D.: Transforming growth factor beta inhibits cyclin D1 induction during G1 phase of the cell cycle. American Association for Cancer Research, San Francisco, CA, April 12, 1994.
10. **Ko, T.C.**, Beauchamp, R.D., and Thompson, E.A.: Cyclin D1 antisense oligonucleotide inhibits intestinal epithelial cell proliferation. American Gastroenterology Association, New Orleans, LA, May 18, 1994.
11. **Ko, T.C.**, Sheng, H.M., Thompson, E.A., and Beauchamp, R.D.: Transforming growth factor- β 1 inhibits transcription of cyclin D1 in intestinal epithelial cells. American Gastroenterology Association, New Orleans, LA, May 18, 1994.

Poster Presentations (continued):

12. **Ko, T.C.**, and Beauchamp, R.D.: Growth factor regulation of immediate early gene expression in rat intestinal epithelial cells. American Gastroenterology Association, Peptide Growth Factors in The GI Tract, Vail, CO, June 26, 1994.
13. **Ko, T.C.**, Sheng, H.M., Reisman, D., Thompson, E.A., and Beauchamp, R.D.: Cyclin D regulation in intestinal epithelial cells. American Association for Cancer Research special conference "Transcriptional control of cell growth and differentiation," Chatham, MA, October 17, 1994.
14. **Ko, T.C.**, Sheng, H.M., Thompson, E.A., and Beauchamp, R.D.: Transforming growth factor- β 1 regulation of cyclin D1 in intestinal epithelial cells. American Association for Cancer Research, Toronto, Ontario, Canada, March 19, 1995.
15. **Ko, T.C.**, Sheng, H.M., Sheng, G.G., Thompson, E.A., and Beauchamp, R.D.: Effect of fasting and refeeding on cyclin D3 and Cdk4 expression in rat jejunum. American Gastroenterology Association, San Diego, CA, May 15, 1995.
16. Fan, R.S., Li, W., **Ko, T.C.**, and Brattain, M.G.: Role of autocrine TGF- β in regulating G1 cell cycle components. Keystone Symposia on the Cell Cycle, Taos, NM, January 12, 1996.
17. **Ko, T.C.**, Sheng, H.M., Thompson, E.A., and Beauchamp, R.D.: Transforming growth factor beta regulation of Cdk4 and Cdk2 kinase activity during G1 progression in intestinal epithelial cells. Keystone Symposia on the Cell Cycle, Taos, NM, January 13, 1996.
18. **Ko, T.C.**, Sheng, H.M., Thompson, E.A., and Beauchamp, R.D.: Transforming growth factor- β 1 inhibits G1 cyclin-dependent kinase activities in intestinal epithelial cells. American Association for Cancer Research, Washington D.C., April 22, 1996.
19. Zhang, T., Nanney, L., **Ko, T.C.**, Luongo, C., Lamps, L., DuBois, R.N., and Beauchamp, R.D.: Overexpression of cyclin D1 in intestinal polyposis of Min mice and human familial adenomatous polyposis subjects. American Association for Cancer Research, Washington D.C., April 22, 1996.
20. **Ko, T.C.**, Thompson, J.C., and Thompson, E.A.: Effect of starvation and glutamine on intestinal epithelial cell cycle and Cdk2 activity. American Gastroenterology Association, San Francisco, CA, May 21, 1996.
21. Iseki, H., **Ko, T.C.**, Guo, Y.-S., and Townsend, C.M. Jr.: Olomoucine blocks IGF-I-stimulated proliferation and cyclin-dependent kinase activity of human gastric cancer cells. American Association for Cancer Research, San Diego, CA, April 15, 1997.
22. Fan, R.S., **Ko, T.C.**, and Brattain, M.G.: Alteration in control of cell cycle transit associated with growth factor independence. American Association for Cancer Research, San Diego, CA, April 15, 1997.

Poster Presentations (continued):

23. Gong, J.G., **Ko, T.C.**, and Brattain, M.G.: Stimulation of p21/WAF1 expression by TGF- β 1 in G1 is required for inhibition of cyclin A/CDK2 kinase activity and cell cycle transit. American Association for Cancer Research, San Diego, CA, April 15, 1997.
24. Fan, R.S., **Ko, T.C.**, and Brattain, M.G.: Lack of cyclin A kinase activity associated with incomplete pRb phosphorylation and absence of cell cycle progression. American Association for Cancer Research, New Orleans, LA, March 30, 1998.
25. Sergina, N.V., Fan, R., **Ko, T.C.**, and Brattain, M.G.: Maximal activation of cyclin-dependent kinase 2 by insulin during cell cycle re-entry requires autocrine TGF- α . Keystone Symposia on the Cell Cycle, Keystone, CO, March 28, 1998.
26. **Ko, T.C.**, Xue, X.Y., Hwang, K.O., and Townsend, C.M. Jr.: Roscovitine blocks cell cycle progression and induces apoptosis in human pancreatic cancer cells. Keystone Symposia on the Cell Cycle, Keystone, CO, March 31, 1998.
27. Papaconstantinou, H.T., Powell, S.J., Hellmich, M.R., Townsend, C.M. Jr., and **Ko, T.C.**: Glutamate and asparagine protect against the induction of apoptosis in glutamine-deprived intestinal epithelial cells. American Gastroenterology Association, New Orleans, LA, May 18, 1998.
28. Papaconstantinou, H.T., Zhang, W., Ansari, N.H., Hellmich, M.R., Townsend, C.M. Jr., and **Ko, T.C.**: Caspase 3 and 2 modulate methotrexate-induced apoptosis in intestinal epithelial cells. American Society for Cell Biology, San Francisco, CA, December 1998.
29. Schuler, H.J., Cao, Y., and **Ko, T.C.**: The role of caspase 3 in TGF- β mediated apoptosis in gut epithelial cells. 2001 Summer Undergraduate Research Program, Galveston, TX, August 9, 2001.
30. Cao, Y., Li, F., Song, D., Townsend, C.M. Jr., and **Ko, T.C.**: TGF- β /Smad signaling in colon cancer cell MC-26. 6th Life Science Symposium, Galveston, TX, May 8, 2002.
31. Slogoff, M.I., Li, F., Cao, Y., Guo, Y.-S., Hellmich, M.R., Townsend, C.M. Jr., and **Ko, T.C.**: Bombesin potentiates transforming growth factor- β (TGF- β)-mediated cell death in intestinal epithelial cells. 6th Life Science Symposium, Galveston, TX, May 8, 2002.
32. Cao, Y., Yu, W., Xie, C., Xue, X.Y., Choy, L., Townsend, C.M. Jr., Thompson, E.A., and **Ko, T.C.**: Critical Role of Smad3 in TGF- β -Mediated Apoptosis and Growth Inhibition in Epithelial Cells. American Society for Cell Biology, San Francisco, CA, December 15, 2002.
33. Li, F., Cao, Y., Townsend, C.M. Jr., and **Ko, T.C.**: p38 MAPK signaling pathway is involved in transforming growth factor- β (TGF- β)/Smad3-induced apoptosis. American Gastroenterology Association, Orlando, FL, May 20, 2003.

Poster Presentations (continued):

34. Wang, J.J., Sergina, N., **Ko, T.C.**, Gong, J., Wang, X.F., and Brattain, M.G.: Autocrine negative TGF β controls cell cycle inhibition through a p21 mediated mechanism. American Association for Cancer Research, Orlando, FL, March 28, 2004.
35. Cao, Y., Li, F., Hellmich, M.R., Guo, Y.-S., Sheng, H.M., Townsend, C.M. Jr., and **Ko, T.C.**: Transforming growth factor- β and bombesin synergistically activate cyclooxygenase-2. American Association for Cancer Research, Orlando, FL, March 30, 2004.
36. Cao, Y., Liu, Y., Chen, L., Thompson, E.A., Townsend, C.M. Jr., and **Ko, T.C.**: Inhibitor of differentiation (Id)-2 is a downstream target gene of transforming growth factor (TGF)- β in the regulation of apoptosis. American Gastroenterology Association, New Orleans, LA, May 16, 2004.
37. Nguyen, N.A., Cao, Y., and **Ko, T.C.**: N-terminal domain of smad3 plays an important role in TGF- β -induced apoptosis of gut epithelial cells. 13th Annual Science Forum, Galveston, TX, April 8, 2005.
38. Cao, Y., Liu, Y., Chen, L., Thompson, E.A., Townsend, C.M. Jr., and **Ko, T.C.**: Inhibitor of differentiation (Id)-2 is a downstream target gene of transforming growth factor (TGF)- β in the regulation of intestinal epithelial cell apoptosis. 13th Annual Science Forum, Galveston, TX, April 8, 2005.
39. Cao, Y., Deng, C., and **Ko, T.C.**: TGF- β regulates multiple transcription factors through repression of Id2 for induction of apoptosis in gut epithelial cells. American Gastroenterology Association, Chicago, IL, May 18, 2005.
40. Nguyen, K.A., Cao, Y., and **Ko, T.C.**: N-terminal domain of Smad3 plays an important role in TGF- β -induced apoptosis of gut epithelial cells. American Gastroenterology Association, Chicago, IL, May 18, 2005.
41. Zhang, W., Cao, Y., Falzon, M., and **Ko, T.C.**: PTHrP is an essential mediator of TGF- β -induced apoptosis in human liver cells. 14th Annual Science Forum, Galveston, TX, June 7, 2006.
42. Zhang, G.-H., Cao, Y., Zhang, W., and **Ko, T.C.**: Dietary fiber enhances TGF- β signaling pathway in the mouse gut. 10th Life Science Symposium, Galveston, TX, May 25, 2007.
43. Zhang, W., Cao, Y., Falzon, M., Townsend, C.M. Jr., and **Ko, T.C.**: Smad3 mediates TGF- β -induced PTHrP expression in human hepatocellular carcinoma cells. 10th Life Science Symposium, Galveston, TX, May 25, 2007.
44. Liu, X.H., Cao, Y., Zhao, J., Li, F., Hellmich, M.R., Guo, Y.-S., Sheng, H., Townsend, C.M. Jr., and **Ko, T.C.**: The role of p38^{MAPK} in the cross-talk between TGF- β receptors and GRP-R. 10th Life Science Symposium, Galveston, TX, May 25, 2007.
45. Cao, Y., Zhang, W., Liu, X.H., Zhang, G.-H., Townsend, C.M. Jr., and **Ko, T.C.**: A novel mediator of TGF- β -induced apoptosis. 10th Life Science Symposium, Galveston, TX, May 25, 2007.

Poster Presentations (continued):

46. Cao, Y., Zhang, W., Liu, X., Zhang, G.-H., Townsend, C.M. Jr., and **Ko, T.C.**: Hypoxia inducing factor-1 α mediates TGF- β -induced apoptosis in intestinal epithelial cells. American Gastroenterology Association, Washington DC, May 21, 2007
47. Deng, X., Cao, Y., Liu, Y., Li, F., Sambandam, K., Rajaraman, S., Mileski, W.J., Perkins, A.S., Hellmich, M.R., Townsend, C.M. Jr., Thompson, E.A., and **Ko, T.C.**: Evi-1 in colorectal cancer: identification of a novel transcript and suppression of TGF- β signaling and function. "Frontiers in Digestive Diseases" Symposium, Houston, TX, February 12, 2009.
48. Cao, Y., Zhang, W., Nguyen, K.A., Townsend, C.M. Jr., and **Ko, T.C.**: Sodium butyrate enhances growth inhibitory effect of TGF- β on gut epithelial cells. "Frontiers in Digestive Diseases" Symposium, Houston, TX, February 12, 2009.
49. Liu, X., Deng, X., Stampf, S.P., Holcomb, J.B., Cox, C.S. Jr, Cao, Y., and **Ko, T.C.**: BMPs protect gut epithelial cells against oxidative injury. "Frontiers in Digestive Diseases" Symposium, Houston, TX, February 12, 2009.

Invited Talks:

1. Regulation of intestinal epithelial cell renewal by TGF-beta. Gastrointestinal Research Seminar Series, the University of Texas Medical Branch, Galveston, TX, January 4, 1995.
2. Molecular regulation of intestinal cell proliferation. Wisconsin Surgical Society, Galveston, TX, May 3, 1995.
3. Regulation of intestinal epithelial cell proliferation by transforming growth factor beta. Department of Surgery Grand Rounds Research Seminar, the University of Texas Medical Branch, Galveston, TX, June 7, 1995.
4. Effects of starvation and glutamine on intestinal cell proliferation. Department of Surgery Grand Rounds Research Seminar, the University of Texas Medical Branch, Galveston, TX, June 5, 1996.
5. Thyroid cancers. Department of Surgery Grand Rounds, the University of Texas Medical Branch, Galveston, TX, February 26, 1997.
6. Cell cycle and apoptosis in pancreatic cancer cells. 1997 Surgery Symposium of the University of Texas Health Science Center, San Antonio, TX, October 2, 1997.
7. Cdk inhibition leads to apoptosis in pancreatic cancer cells. Hormone Action Laboratories Meeting, the University of Texas Medical Branch, Galveston, TX, December 15, 1997.
8. Novel therapy in pancreatic cancer. Department of Surgery Research Symposium, the University of Texas Medical Branch, Galveston, TX, May 11, 1998.

Invited Talks (continued):

9. Evi-1 suppression of smad signaling. Hormone Action Laboratories Meeting, the University of Texas Medical Branch, Galveston, TX, May 24, 1999.
10. TGF- β signaling pathway – from receptor to the nucleus. “The Molecular Surgeon” symposium, Baylor College of Medicine, Houston, TX, August 21, 1999.
11. TGF- β signaling in the gut. Surgical Biology Club I, San Francisco, CA, October 10, 1999.
12. Evi-1 interaction with CBP. Hormone Action Laboratories Meeting, the University of Texas Medical Branch, Galveston, TX, April 17, 2000.
13. Regulation of epithelial cell growth by TGF- β . Gulf Coast GI Research Forum, League City, TX, June 3, 2000.
14. The mechanism of TGF- β suppression by Evi-1 oncogene. Endocrine Seminar, the University of Texas Medical Branch, Galveston, TX, October 23, 2001.
15. Sealy Center for Cancer Cell Biology Research in Progress, the University of Texas Medical Branch, Galveston, TX, February 27, 2002.
16. Presidential Address: Excellence in academic surgery. Association for Academic Surgery, Boston, MA, November 9, 2002.
17. A novel mechanism that inactivates tumor suppressor pathway in human colorectal cancer. Department of Surgery Research Symposium, the University of Texas Medical Branch, Galveston, TX, January 15, 2003.
18. Career choice in general surgery. Departmental Grand Rounds, the University of Texas Medical Branch, Galveston, TX, January 29, 2003.
19. Transforming growth factor- β and human diseases. Michael E. DeBakey Department of General Surgery Grand Rounds, Baylor College of Medicine, Houston, TX, December 1, 2004.
20. Colorectal cancer. Hematology-Oncology Grand Rounds, the University of Texas Medical Branch, Galveston, TX, October 12, 2005.
21. Regulation of the TGF- β tumor suppressor pathway. Research in Progress Seminar Series, the University of Texas Medical Branch, Galveston, TX, November 28, 2006.
22. Transforming growth factor- β and surgical diseases. Department of Surgery Grand Rounds, the University of Texas Health Science Center, Houston, TX, March 22, 2007.
23. The regulators and mediators of Transforming Growth Factor- β signaling. Hollings Cancer Center, Medical University of South Carolina, Charleston, SC, November 26, 2007.
24. TGF- β and surgery. Michael E. DeBakey Department of General Surgery Grand Rounds, Baylor College of Medicine, Houston, TX, March 11, 2009.

E. Visiting Professorships:

1. Current topics in TGF- β and Smads. Yamagata University, Yamagata, Japan October 18, 1999.

2. Regulation of TGF- β /Smad3 signaling. The Feist-Weiller Cancer Center Fall Seminar, Louisiana State University Health Sciences Center, Shreveport, LA, November 10, 2003.
3. Transforming growth factor- β and human diseases. Departmental Grand Rounds, Louisiana State University Health Sciences Center, Shreveport, LA, November 11, 2003.