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Director, Division of Research
Department of Pathology
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<u>Birthplace</u>	Hefei, Anhui Province, The People's Republic of China
<u>Nationality</u>	USA
<u>Marital Status</u>	Married, one daughter
<u>Current Position</u>	Associate Professor Director, Division of Research Department of Pathology School of Medicine St. Louis University
<u>Office Address</u>	Department of Pathology School of Medicine St. Louis University 1100 S. Grand Blvd, Doisy Research Center, Room 215 St. Louis, MO. 63104 Phone: (314)-977-7832 FAX : (314)-977-8499 Email: achen5@slu.edu
<u>Education</u>	1987-1992 Ph. D. Molecular Parasitology and Microbiology, University of Puerto Rico 1984-1987 M.S. Biochemistry, University of Anhui, China 1978-1982 B. S. Microbiology, University of Anhui, China
<u>Postdoctoral Training</u>	1995-1998 Postdoctoral fellow, Department of Medicine, University of Chicago 1992-1995 Postdoctoral Fellow, Department of Oral Biology, University of Florida
<u>Academic Appointments</u>	2006-present Associate Professor, Director, Research Division, Department of Pathology, St. Louis University 2002-2006 Assistant Professor, Department of Pathology, Department of Cellular Biology & Anatomy, LSUHSC-S 1999-2002 Assistant Professor (Research), Dept. of Medicine, University of Chicago 1998-1999 Instructor (Research), Department of Medicine, University of Chicago

**Teaching
Experience**

2007-now Lectures to Graduate Course PTG 501, Pathology, SLU
2006-now Lectures to Graduate Students (BBGC 503), School of Medicine, SLU
2006-now Supervisor to Graduate Course BBGC 502, School of Medicine, SLU
2005 Lectures on "Apoptosis" to medical school students, LSUHSC-S
2004, 2005 Lectures on Liver Diseases for the graduate course of
"Molecular Basis of Human Disease", LSUHSC-S
1989-1991 Teaching Assistant of Parasitology, Biology Dept. University of Puerto Rico
1982-1984 Teaching Assistant of Microbiol. Biochem. Biology Dept., Univ. of Anhui

Memberships

American Gastroenterological Association
American Society for Biochemistry and Molecular Biology
American Diabetes Association

**Invited
Presentation**

2008 School of Medicine, Emory University
2006 Department of Pathology, Saint Louis University
2005 Department of Pharmacology, LSHHSC-S
2004 Department of Physiology, LSHHSC-S
Biology Department, LSU-S
2003 Department of Biochemistry, Michigan State University
Biology Department, Louisiana State University in Shreveport
2002 Department of Biochemistry and Molecular Biology,
University of Medicine and Dentistry of New Jersey
2001 Department of Pathology, Medical School,
Texas A&M University-Collage Station
Department of Biochemistry and Molecular Biology,
University of Arkansas for Medical Sciences,

Invited Reviewer

Cancer Research
Gastroenterology
Journal of Biological Chemistry
Laboratory Investigation
Pathophysiology
Biochemical and Biophysical Research Communications
Molecular Pharmacology
American Journal of Physiology
Journal of Cellular Biology
Biochemical Pharmacology
Metabolism, Clinical and Experimental
Ad Hoc reviewer for the Health Research Council of New Zealand (2010)

**Committee &
Service**

Member of Editorial Board of *World Journal of Gastroenterology* (2009-present)
Member of Promotion Committee, Department of Pathology, SLU (2008-present)
Graduate Student Recruitment Committee, School of Medicine, SLU (2006-present)
Graduate Curricular Core Committee, School of Medicine, SLU (2006-present)
Coordinator of Pathology Departmental Seminar Series, SLU (2006-2008)
Permanent Reviewer of Grant Review Panel of
American Gastroenterology Association (2005-2008)
Research Advisory Committee of LSHHSC-S (2002-2005)
Medical Communication Committee of LSUHSC-S (2002-2006)
Elected Faculty Senator of LSUHSC-S (2004-2006)
An associate member of the Graduate Faculty of LSUHSC-S (2003-2006)
Pathology Departmental faculty Search Committee (2005)
Coordinator of Pathology Departmental Seminar Series, LSUHSC-S (2003-2006)
Member of Honor Council of LSUHSC-S (2006)

Mentoring

06/2009-05/2010 Supervisor of pre-Med student and President Scholar Bharat Panuganti
08/2009-present Dissertation committee member for graduate student Elise Ambrose

02-05/2008, Supervisor of graduate student Marius Busauskas for lab rotation, SLU
06-08/2008, Supervisor of medical school student Kurt Mauer for Summer Research Program

01/08-present, Advisor to postdoctoral fellow Dr. Yucai Tang, SLU
04/07-09/2009, Advisor to postdoctoral fellow Dr. Qiaohua Kang, SLU
09/06-09/2010 Advisor to postdoctoral fellow Dr. Jianguo Lin, SLU

10/2003-05/07, Advisor to postdoctoral fellow Dr. Shizhong Zheng, LSUHSC-S and SLU;
05/2006-04/07, Advisor to postdoctoral fellow Dr. Yumei Fu, SLU
06/2005-06/06, Advisor to postdoctoral fellow Dr. Yiajun Zhou, LSUHSC-S
10/2003-06/06, Advisor to resident fellow Dr. Rodney Shackelford, LSUHSC-S
05/2001-05/02, Advisor to postdoctoral fellow Dr. Zhang Li, Univ. of Chicago
10/2001-11/04, Advisor to postdoctoral fellow Dr. Jenye Xu, LSUHSC-S;

01/2003-05/06, Mentor to graduate student Yumei Fu, pursuing Ph. D., Dept. of Anatomy, LSUHSC-S;

07/2003-05/04, Mentor to high school student Mark Brown for the program of SMART;
07/2004-05/05, Mentor to high school student Vikram Agarwal for the program of SMART of LSUHSC-S, winning the semi-final award for the National Westhouse Competition, and the first price for the Regional High School Science Fair.

Current Grants

“Inhibition of hepatic stellate cell activation”

Principal Investigator: Anping Chen

Agency: National Institute for Diabetes, Digestive and Kidney Diseases

Type: RO1 DK047995

Status: Funded, \$205,000/year

Period: 05/01/06 to 04/30/10 (one year no-cost extension to 04/30/11)

Past Funding

“Inhibition of hepatic stellate cell activation”

Principal Investigator: Anping Chen

Funding Source: National Institute for Diabetes, Digestive and Kidney Diseases, NIH

Type: RO1 DK 47995 (\$185,000/year)

Period: 05/01/00 to 04/30/06.

“Underlying mechanisms of vitamin D inhibition of colon cancer cell growth”

Principal Investigator: Anping Chen

Funding Source: Fiest/Weiller Cancer Center

Period: 01/01/03 to 12/31/05 (\$40,000/year)

"Iron Chelators as a Pharmacological Treatment to Reduce Spontaneous dsDNA Breaks in Ataxia-telangiectasia Cells

Principal Investigator: Anping Chen

Funding Source: A-T Children's Project Foundation

Period: 07/01/05-06/30/06 (\$8500/year)

"Effects of the antioxidant curcumin on HSC activation and hepatic fibrogenesis"

Principal Investigator: Anping Chen

Funding Source: THE EDWARD P. STILES TRUST FUND - LSUHSC - S and THE BIOMEDICAL RESEARCH FOUNDATION OF NORTHWEST LOUISIANA

Period: 01/01/05 to 06/31/06 (\$40,000/year)

Grant Pending

“Inhibition of hepatic stellate cell activation”

Principal Investigator: Anping Chen

Agency: National Center for Complementary and Alternative Medicine

Type:

Status: Pending

Original Peer-reviewed Scientific Publications

1. **Chen, A.** and Wu, D. (1987) Studies of Fungi Polysaccharides (I): Isolation and Some Properties of Water-soluble Polysaccharides of *Cordyceps hawkesii* *Academic Periodical of Anhui University* 29(3):168-176
2. Hillman, J. D., **Chen, A.**, Duncan, M. and Lee, S. (1994) Evidence that L-(+) Lactate Dehydrogenase Deficiency is Lethal in *Streptococcus mutans* *Infect. & Immun.* 62(1):60-64
3. **Chen, A.**, Alderete, J. F. and Wong, M. (1994) The Divalent Iron Cation (Fe⁺⁺) Regulates Protein Expression of *Trichomonas vaginalis* in vitro and in vivo. *Acta Parasitol. Med. Entomol. Sin.* 1: 8-16
4. **Chen, A.**, J. D. Hillman and Duncan, M. (1994) L-(+)Lactate Dehydrogenase Deficiency is Lethal in *Streptococcus mutans*. *J. Bacteriol.* 176(5):1542-1547
5. Davis, B. H., **Chen, A.**, and Beno, D. W. (1996) Raf and Mitogen Activated Protein Kinase Regulate Stellate Cell Type I Collagen Expression. *J. Biol. Chem.* 271:11039-11042
6. **Chen, A.**, Beno, D. W. and Davis, B. H. (1996) Suppression of Stellate Cell Type I Collagen Expression Involves AP-2 Transmodulation of NF-1 Dependent Gene Transcription. *J. Biol. Chem.* 271:25994-25998
7. Davis, B. H. and **Chen, A.** (1996) Transforming Growth Factor and Liver Regeneration: the Stage May be Set, but What is the Script? *Hepatology* 23:1703-1705
8. Hillman, J. D., **Chen, A.** and Snoep, J. L. (1997) Genetic and Physiological Analysis of the Lethal Effect of L-(+)-Lactate Dehydrogenase Deficiency in *Streptococcus mutans*: Complementation by Alcohol dehydrogenase from *Zymomonas mobilis* *Infect. & Immun.* 64:4319-4323
9. Weiner, J. A., **Chen, A.** and Davis, B. H. (1998) E-box-binding Repressor Is Down-regulated in Hepatic Stellate Cells during Up-regulation of Mannose-6-Phosphate/Insulin-like Growth Factor-II Receptor Expression in Early Hepatic Fibrogenesis *J. Biol. Chem.* 273:15913-15919
10. **Chen, A.** and Davis, B. H. (1999) U. V. Irradiation Activates JNK and Increases α 1(I) Collagen gene Expression in Rat Hepatic Stellate Cells *J. Biol. Chem.* 274: 158-164
11. **Chen, A.**, Davis, B. H., Bissonnette, B. M., Scaglione-sewell, B. and Brasitus, T. A. (1999) 1,25-dihydroxyvitamin D₃ Stimulates AP-1-dependent CaCo-2 Cells Differentiation *J. Biol. Chem.* 274:35505-35513
12. Weiner, J. A., **Chen, A.** and Davis, B. H. (2000) Platelet-derived Growth Factor Is A Principal Inductive factor Modulating Mannose-6-phosphate/insulin-like Growth Factor II Receptor Gene Expression Via A Distal E-box in Activated Hepatic Stellate Cells *Biochem. J.* 345:225-231

13. **Chen, A.** and Davis, B. H. (2000) The DNA Binding Protein BTEB Mediates acetaldehyde-induced, JNK-dependent alpha I(I) Collagen Gene Expression in Rat Hepatic Stellate Cells. *Mol. Cell. Biol.* 20:2818-2826
14. **Chen, A.,** Davis, B. H., Sitrin, M, Brasitus, T. A. and Bissonnette, M (2002) Transforming growth factor-beta1 signaling contributes to Caco-2 cell growth inhibition induced by 1,25(OH)₂D₃. *Am. J. Physiol.* 283(4):G864-874
15. **Chen, A.** (2002) Acetaldehyde stimulates the activation of latent transforming growth factor-beta1 and induces the expression of the type II receptor of the cytokine in rat hepatic stellate cells. *Biochem. J.* 368(3):683-694.
16. **Chen, A,** Zhang, Li, Xu, Jianye and Tang, Jun (2002) The antioxidant (-)-epigallocatechin-3-gallate inhibits activated hepatic stellate cell growth and suppresses acetaldehyde-induced gene expression. *Biochem. J.* 368(3):695-704.
17. **Chen, A.** and Zhang, L. (2003) The antioxidant (-)-epigallocatechin-3-gallate inhibits rat hepatic stellate cell proliferation *in vitro* by blocking the tyrosine phosphorylation and reducing the gene expression of platelet-derived growth factor-beta receptor. *J. Biol. Chem.* 278:23381-23389.
18. Xu, Jianye, Fu, Y. and **Chen, A.** (2003) Activation of peroxisome proliferator-activated receptor-γ contributes to the inhibitory effect of curcumin on rat hepatic stellate cell proliferation *in vitro* *Am. J. Physiol.* 285:G20-G30.
19. Zheng, S. and **Chen A.** (2004) Activation of PPARγ is required for curcumin to induce apoptosis and to inhibit the expression of extracellular matrix genes in hepatic stellate cells *in vitro* *Biochem. J.* 384:149
20. **Chen, A.** and Xu, Jianye (2005) Activation of PPARγ by curcumin inhibits Moser cell growth and mediates the suppression of the gene expression of cyclinD1 and EGFR. *Am. J. Physiol. GI & liver* 288:G447-456.
21. **Chen, A.** Xu, J. and Johnson, A. (2006) Curcumin inhibits human colon cancer cell growth by suppressing gene expression of epidermal growth factor receptor through reducing the activity of the transcription factor Egr-1. *Oncogene* 25:278–287
22. Zheng, S. and **Chen, A.** (2006) Curcumin suppresses the expression of extracellular matrix genes in activated hepatic stellate cells by inhibiting gene expression of connective tissue growth factor. *Am J Physiol Gastrointest Liver Physiol.* 290(5):G883-93.
23. Fu, Y. Zhou, Y. Zheng, S. and **Chen, A.** (2006) Evaluation of the effect of the antioxidant capability of (-)-epigallocatechin gallate on suppressing gene expression of extracellular matrix in activated rat hepatic stellate cells. *Lab Investigation* 86:697–709.
24. Rodney E. Shackelford, Yumei Fu, Torrie C. Brooks, Ryan P. Manuszak, Adrian P. Sequeira, Suming Wang, Mary Lowery-Nordberg and **Anping Chen.** (2006) Iron chelators reduce chromosomal breaks in ataxia-telangiectasia cells. *DNA Repair (Amst).* 2006 5(11):1327-36.
25. Fu, Y. and **Chen, A.** (2006) (-)-epigallocatechin gallate interrupts EGFR signaling by reducing receptor tyrosine phosphorylation and suppressing the EGFR gene expression, leading to inhibition of hepatic stellate cell growth. *Biochemical Pharmacology* 72: 227– 238.
26. Zheng, S. and **Chen, A** (2007). Disruption of transforming growth factor-beta signaling by curcumin induces gene expression of peroxisome proliferator-activated receptor-gamma in rat hepatic stellate cells. *Am J Physiol Gastrointest Liver Physiol.* 2007 292(1):G113-23.
27. Zheng, S. Fu, Y and **Chen, A.** (2007) De novo synthesis of glutathione is a prerequisite for curcumin to inhibit hepatic stellate cell (HSC) activation. *Free Radic Biol Med.* 43(3):444-53.

28. Zhou ,Y. Zheng, S. Zhang, QJ. and **Chen, A.** (2007) The interruption of the PDGF and EGF signaling pathways by curcumin stimulates gene expression of PPARgamma in rat activated hepatic stellate cell in vitro. *Lab Invest.* 87(5):488-98.
29. **Chen, A.** and Zheng, S. (2008) Curcumin inhibits connective tissue growth factor gene expression in activated hepatic stellate cells in vitro by blocking NF-kappaB and ERK signalling. *Br J Pharmacol.* 153(3):557-67. PMID: 17965732, PMCID: PMC2241795.
30. Fu Y, Zheng S, Lin J, Ryerse J, **Chen, A.** (2008) Curcumin protects the rat liver from CCl4-caused injury and fibrogenesis by attenuating oxidative stress and suppressing inflammation. *Mol Pharmacol.* 73(2):399-409. PMID: 18006644, (no PMCID available).
31. Lin, J. and **Chen, A.** (2008) Activation of peroxisome proliferator-activated receptor-gamma by curcumin blocks the signaling pathways for PDGF and EGF in hepatic stellate cells. *Lab Invest.* 88(5):529-40. PMID: 18332871, PMCID: PMC2673570
32. Fu, Y. Zheng, S Lu, SL and Chen, A. (2008) Epigallocatechin-3-gallate Inhibits Growth of Activated Hepatic Stellate Cells by Enhancing the Capacity of Glutathione Synthesis *Mol Pharmacol.* 73(5): 1465–1473. PMID: 18230716, PMCID: PMC2562715.
33. Qiaohua Kang and **Anping Chen** (2009) Curcumin suppresses gene expression of low-density lipoprotein receptor, leading to the inhibition of LDL-induced activation of hepatic stellate cell. *Brit. J. Pharmacol.* 157, 1354–1367. PMID: 19594758; PMCID: PMC2765310.
34. Youcai Tang, Shizhong Zheng and **Anping Chen** (2009) Curcumin eliminates leptin's effects on hepatic stellate cell activation via interrupting leptin signaling *Endocrinology* 150: 3011–3020. PMID: 19299451; PMCID: PMC2703516
35. Qiaohua Kang and **Anping Chen** (2009) Curcumin eliminates oxidized LDL roles in activating hepatic stellate cell by suppressing gene expression of lectin-like oxidized LDL receptor-1. *Lab Invest.* Lab Invest. 89:1275–1290. PMID: 19736547, PMCID: PMC2783367
36. Jianguo Lin, Shizhong Zheng and **Anping Chen** (2009) Curcumin attenuates the effects of insulin on stimulating hepatic stellate cell activation by interrupting insulin signaling and attenuating oxidative stress *Lab Invest.* 89, 1397–1409. PMID: 19841616, PMCID: PMC2787823
37. Qiaohua Kang and **Anping Chen** (2009) Curcumin inhibits *srebp-2* expression in activated hepatic stellate cells *in vitro* by reducing the activity of specificity protein-1 (SP-1) *Endocrinology* 150(12):5384–5394, PMID: 19808779, PMCID: PMC2795713.
38. Youcai Tang and **Anping Chen** (2010) Curcumin Protects Hepatic Stellate Cells against Leptin-Induced Activation *in Vitro* by Accumulating Intracellular Lipids. *Endocrinology*, 151(9): 4168-77. PMID: 20660066; PMCID: PMC2940502.
39. Youcai Tang and **Anping Chen** (2010) Curcumin prevents leptin raising glucose levels in hepatic stellate cells by blocking translocation of glucose transporter-4 and increasing glucokinase. *Brit. J. Pharmacol.* 161(5):1137–1149 PMID: 20977462; PMCID: PMC2998693.
40. Jianguo Lin and **Anping Chen** (2011) Curcumin diminishes the impacts of hyperglycemia on the activation of hepatic stellate cells by suppressing membrane translocation and gene expression of glucose transporter-2. *Mol. Cell. Endocrinol.* 333 (2011) 160–171, PMID: 21195127, PMCID: PMC3039105