

Yi Wei Jiang, Ph.D.

Assistant Professor
 Department Medical Biochemistry and Genetics
 Texas A&M University System Health Science Center
 428 Reynolds Medical Building
 College Station, TX 77843-1114
 Tel: (979)845-5058
 Fax: (979)847-9481
 Email: ywjiang@medicine.tamu.edu

Education

7/89 B.S. in biology, University of Science and Technology of China, Hefei, China.
 3/96 Ph.D., University of Utah.
 9/96-7/99 Postdoctoral Fellow, Stanford University.

Research

9/90-8/96 Ph.D. thesis research plus postdoctoral training in Dr. David J. Stillman's lab:
 1) Complex in vivo functions of yeast pol II Mediator of transcriptional regulation;
 2) Epigenetic control of transcription in yeast.

9/96-7/99 Postdoctoral training in Dr. Roger D. Kornberg's lab:
 1) Biochemical purification and molecular characterization of mouse pol II Mediator complex;
 2) Development of a reporting system for detecting new classes of yeast epigenetic control of gene expression and discovery of posttranscriptional silencing in yeast.

7/99-present Tenure-track Assistant Professor, Department Medical Biochemistry and Genetics, Texas A&M University System Health Science Center,.

Previous Awards

9/92-6/93 University Research Fellowship, University of Utah, \$5,000.
 1/97-7/99 Damon Runyon-Walter Winchell Postdoctoral Fellowship, \$96,000.
 1/01-12/02 Tobacco Enhancement Fund, PI, \$75,000 total cost.
 1/01-12/03 Damon Runyon Scholar Award, PI, \$300,000 total cost.
 7/02-12/04 BIOS Program, DARPA/DOD, PI, \$375,000 total cost.
 Yeast TNT-chemosensor arrays with recombined canine olfactory receptors.

Current funding

01/04-12/08 NIH R01GM65320, PI, \$180,000 annual direct cost for five years.
 Cossuppression of *Ty1* Retrotransposon in *S. cerevisiae*

Publications (20 published, 4 submitted and 1 manuscript in preparation, * corresponding author)

Involvement of the *SIN4/TSF3* Global Transcriptional Regulator in the Chromatin Structure of *Saccharomyces cerevisiae*.

Yi Wei Jiang and David J. Stillman, *Mol. Cell. Biol.* 12: 4502-4515 (1992).

Yeast Global Transcriptional Regulators *SIN4* and *RGR1* Are Components of a Subcomplex of the RNA Polymerase II Holoenzyme.

Li, Yang, Stefan Bjorklund, Yi Wei Jiang, Young-Joon Kim, William S. Lane, David J. Stillman and Roger D. Kornberg. *PNAS* 92: 10864-10868 (1995).

Regulation of *HIS4* Expression by the *Saccharomyces cerevisiae SIN4* Transcriptional Regulator.

Yi Wei Jiang and David J. Stillman, *Genetics* 140: 103-114 (1995).

Genetic and Physical Interactions between Yeast *RGR1* and *SIN4* in Chromatin Organization and Transcriptional Regulation.

Yi Wei Jiang, Paul R. Dohrmann and David J. Stillman, *Genetics* 140: 47-54 (1995).

Mutations in the Homologous *ZDS1* and *ZDS2* Genes Affect Cell Cycle Progression.

Yaxin Yu, Yi Wei Jiang, Raymund J. Wellinger, Karen Carlson, James M. Roberts, and David J. Stillman. *Mol. Cell. Biol.* 16: 5254-5263 (1996).

Epigenetic Effects on Yeast Transcription Caused by Mutations in an Actin-related Protein Present in the Nucleus.

Yi Wei Jiang and David J. Stillman, *Genes & Development* 10: 604-619 (1996).

Global Alteration in Chromatin Accessibility Associated with Loss of *SIN4* Function.

Timothy Macatee, Yi Wei Jiang, David J. Stillman and Sharon Y. Roth. *NAR* 25:1240-1247 (1997).

Mammalian Mediator of Transcriptional Regulation and Its Possible Role as an End-Point of Signal Transduction Pathways.

Yi Wei Jiang, P. Veschambre, H. Erdjument-Bromage, P. Tempst, J. W. Conaway, R. C. Conaway and R. D. Kornberg. *PNAS* 95: 8538-8543 (1998).

Conserved Structures of Mediator and RNA Polymerase II Holoenzyme.

Francisco J. Asturias, Yi Wei Jiang, Lawrence C. Meyers, Claes M. Gustafsson and Roger D. Kornberg. *Science*. 283:985-987 (1999).

The Nuclear Actin-related Protein of *S. cerevisiae*, Act3/Arp4, Interacts with Core Histones.

Harata, M., Y. Oma, S. Mizuno, Yi Wei Jiang, D. J. Stillman, and U. Wintersberger. *Mol. Biol. Cell.* 10: 2595-2605 (1999).

Structural Organization of Yeast and Mammalian Mediator Complexes.
Dotson MR, Yuan CX, Roeder RG, Myers LC, Gustafsson CM, Jiang YW, Li Y,
Kornberg RD, Asturias FJ. PNAS. 97(26): 14307-14310 (2000).

A Multiprotein Complex That Interacts with RNA Polymerase II Elongator.
Li Y, Takagi Y, Jiang YW, Tokunaga M, Erdjument-Bromage H, Tempst P, Kornberg
RD. J Biol Chem. 276(32): 29628-29631 (2001).

Transcriptional Cosuppression of Yeast *Ty1* Retrotransposons
Jiang Y.W*. Genes & Development 16: 467-478 (2002).

New 'Marker Swap' Plasmids for Converting Selectable Markers on Budding Yeast
Gene Disruptions and Plasmids.
Voth W. P., Jiang Y.W. and Stillman D. J. Yeast 20: 985-93 (2003).

Induction of *S. cerevisiae* Filamentous Differentiation by Slowed DNA Synthesis
Involves Mec1, Rad53 and Swe1 Checkpoint Proteins.
Jiang Y.W*. and Kang C. M. Mol. Biol. Cell 14: 5116-24 (2003)

Genome-wide Survey of Genes Required for Filamentous Differentiation of *S.*
cerevisiae.
Kang C. M. and Jiang Y.W*. Yeast 22(2): 79-90 (2005).

Integration of Upstream Signals at Cdc42 in Filamentous Differentiation of *S. cerevisiae*
Xiaofeng Wu and Yi Wei Jiang*. Yeast (In press, 2005)

Genetic/Genomic Evidence for A Key Role of Polarized Endocytosis in Filamentous
Differentiation of *S. cerevisiae*
Xiaofeng Wu and Yi Wei Jiang*. Yeast (In press, 2005)

Structure and Biosynthesis of the BT Peptide Antibiotic from *Brevibacillus texasporus*
Xiaofeng Wu, Johnathan Ballard and Yi Wei Jiang*. Applied and Environmental
Microbiology (In press, 2005)

The Efficacy of TAMUS 2032 (BT) in Preventing a Natural Outbreak of Colibacillosis
in Broiler Chickens in Floor Pens.
Y. W. Jiang*, M. D. Sims, and D. P. Conway Poultry Science (In press, 2005)

Reg1-dependent Glucose Repression of *Ty1* Transcription and Transposition in *S.*
cerevisiae
Xiaofeng Wu and Yi Wei Jiang* (submitted, 2005)

Gcn4-mediated, *Ty1* Transcriptional Pseudo-Cosuppression.
Xiaofeng Wu and Yi Wei Jiang* (submitted, 2005)

Inhibition of the Filamentous MAPK Pathway by ATP/CPF: A Gcn4-independent Mechanism for *Ty1* Transcriptional Pseudo-cosuppression
Xiaofeng Wu and Yi Wei Jiang* (submitted, 2005)

The Growth Promotion Efficacy of TAMUS 2032 (BT) in Comparison to BMD in Broiler Chickens in Floor Pens
Y. W. Jiang*, Terry N. Terhune and D. P. Conway (submitted, 2005)

The Glc7 Phosphatase Inhibits Ty1 Transcriptional Pseudo-cosuppression by Opposing Gcn2-mediated Gcn4 Translational Activation in *S. cerevisiae*
Xiaofeng Wu and Yi Wei Jiang* (in preparation, 2005)

Patent

Compositions, Methods And Uses for A Novel Family of Peptides
Yi Wei Jiang, US (11/046,560) and PCT (PCT/US2005/003343) patent applications (01/2005)

References

Roger Kornberg, Professor,
Department of Structural Biology, Stanford Medical School, Stanford, CA 94305.
Telephone: (650) 723-6988. E-mail: kornberg@stanford.edu.

David J. Stillman, Professor,
Department of Pathology, University of Utah Health Sciences Center
Telephone: (801) 581-5429. E-mail: david.stillman@path.utah.edu

Alexander D. Johnson, Professor,
Department of Microbiology and Immunology, University of California at San Francisco, Mission Bay Genentech Hall, 600 16th Street, Box 2200, San Francisco, CA 94143-2200.
Telephone: (415) 476-8097 or (415)502-7197. E-mail: ajohnson@cgl.ucsf.edu.