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### EDUCATION

- 1996 Ph.D., Biology. City University of New York, New York, NY.  
1986 B.S., M.S. Biochemistry. Shanghai Institute of Biochemistry, Chinese Academy of Sciences

CITIZENSHIP: U.S.A.

### RESEARCH ACTIVITIES AND APPOINTMENTS

- 2002-present Associate Research Scientist (A non-tenured, Assist Prof. level appointment).  
Principle Investigator: Lloyd A. Greene, Ph.D., Columbia University  
1998-2002 Postdoctoral fellow. Advisor: Lloyd A. Greene, Ph.D.  
Columbia University College of Physicians and Surgeons, New York, NY.  
1996-1998 Postdoctoral fellow. Advisor: Michele Pagano, M.D.  
New York University Medical Center, New York, NY.  
1991-1996 Graduate Research Assistant. Advisor: Rivka Rudner, Ph.D.  
Dept. of Biological Sciences, City University of New York, New York NY.  
1989-1991 Visiting Research Specialist. Dept. of Biological Sciences, Univ. of Illinois at Chicago, IL.  
1988-1992 Assistant Professor. Dept. of Biochemistry, Qingdao University, Qingdao, China.  
1986-1987 Research fellow. Shanghai institute of Biochemistry, Shanghai, China.

### TEACHING EXPERIENCE (undergraduate)

Biochemistry, Coordinator: Prof. Guren Jiang, Qingdao University  
Principle Biology, Coordinator: Prof. Roger Percell, City Univ. of NY  
Cell Biology, Coordinator: Prof. Roger Percell, City Univ. of NY  
Microbiology, Coordinator: Prof. Marvin Friedman, City Univ. of NY  
Molecular Genetics, Coordinator: Prof. Rivka Rudner, City Univ. of NY  
(My teaching load at City Univ. of NY was 4-9 hrs/week every semester from 1991-1996).

### GRANTS, AWARDS AND HONORS RECEIVED

Blanchette Rockefeller Foundation (Columbia University).  
NIH Neurobiology Grand AG00189-12 (Columbia University).  
NIH postdoctoral training fellowship (New York University).  
University of Illinois at Chicago Visiting Research Specialist Award.  
Qingdao University Travel Award (Qingdao University, China)  
Outstanding Research Award (Shanghai Institute of Biochemistry, China)

### PUBLICATIONS

- Biswas SC, **Liu DX**, and Greene LA (2005) Bim is a direct target of a neuronal E2F-dependent apoptotic pathway. *J. Neurosci.*, 25(37):8349-58.  
**Liu DX**, Nath N, Chellappan SP, and Greene LA (2005). Regulation of neuronal survival and death by p130 and associated chromatin modifiers. *Genes Dev.* 19(6):719-32.  
**Liu DX**, Biswas SC, and Greene LA (2004). B-myb and C-myb play required roles in neuronal apoptosis evoked by NGF deprivation and DNA damage. *J. Neurosci.* 24(40):8720-5.  
Greene LA, Biswas SC, and **Liu DX** (2004). Cell cycle molecules and vertebrate neuron death: E2F at the hub. *Cell Death Differ.* 11(1):49-60.  
**Liu DX** and Greene LA (2002). Neuronal apoptosis at the G1/S cell cycle checkpoint. *Cell Tissue Res.*



305(2):217-28.

- Liu DX** and Greene LA (2001). Regulation of neuronal survival and death by E2F-dependent gene repression and derepression. *Neuron* 32(3):425-38.
- Angelastro JM, Moon NY, **Liu DX**, Yang AS, Greene LA, Franke TF (2001). Characterization of a novel isoform of caspase-9 that inhibits apoptosis. *J. Biol. Chem.* 276(15):12190-200.
- Zhang Y, Wang Z, **Liu DX**, Pagano M, Ravid K (1998). Ubiquitin-dependent degradation of cyclin B is accelerated in polyploid megakaryocytes. *J. Biol. Chem.* 273(3):1387-92.
- Lu Z, **Liu DX**, Hornia A, Devonish W, Pagano M, Foster DA (1998). Activation of protein kinase C triggers its ubiquitination and degradation. *Mol. Cell. Biol.* 18(2):839-45.
- Liu DX** (1992). Regulation of gene transcription in eukaryotic cells. *Qingdao Archive: Cell Biol.* 22(3):121-29.
- Liu DX** (1990). DNA regions in the genome of silkworm *Attacus ricini* contains sequences that structurally and functionally resembles both eukaryotic and prokaryotic promoters. *J. Qingdao University* 2(1):88-94.
- Liu DX** and He X (1989). Study on plasmids harbored in thermophilic bacteria – Isolation and characterization of plasmids from *Bacillus thermophilus*. *Chinese J. Biochemistry* 5(1):56-60.
- Liu DX**, Shen L and Li Z (1989). *Attacus ricini* genomic DNA contains regions that can act as prokaryotic promoters. *J. Genetics (English)*. Allerton Press, New York, NY. 15(1):59-72.
- Liu DX**, Shen L and Li Z (1988). Cloning and characterization of DNA fragments from the genome of silkworm *Attacus ricini* that can function as promoters in *E. coli*. *Acta Genetica Sinica* 15(2):102-10.

#### MANUSCRIPTS SUBMITTED OR IN PREPARATION

- Liu DX**, Li W, Angelastro JM, and Greene LA. Regulation of ATF5 and ATF5 DNA binding sites during neuronal differentiation. *In preparation*.
- Liu DX** and Greene LA. cdc2 and p107 mediates ATF5 inhibition of cell cycle exit and neural differentiation in the rat telencephalic neural progenitor cells. *In preparation*.

#### INVITED TALKS

- Cycling to Death: Regulation of cell cycle molecules in neuronal apoptosis**  
Northwestern University, Chicago, Illinois, 2005
- Cycling to Death: Regulation of cell cycle molecules in neuronal apoptosis**  
University of California, Davis, California, 2005
- Cell cycle regulation of neuronal apoptosis**  
City University of New York, New York, New York, 2004
- Control of neuronal survival and death by cell cycle molecules.**  
Shanghai Institute of Biochemistry, Shanghai, China, 2002.
- Control of neuronal survival and death by cell cycle molecules.**  
Institute of Genetics, Fudan University, Shanghai, China, 2002.
- E2F regulation in neuronal apoptosis.**  
Institute of cancer Genetics, Columbia University, New York, NY, 2001.

#### SELECTIVE ABSTRACTS AND PRESENTATIONS

- Liu DX**, Nath N, Chellappan SP, and Greene LA. Disassembly of the repressor complex E2F-p130-HDAC-Suv39H1 is required for neuronal apoptosis. *The 10th SCBA International Symposium*, Beijing, China, 2004.
- Liu DX**, Nath N, Chellappan SP, and Greene LA. Regulation of neuronal survival and apoptosis by the E2F-p130-HDAC-Suv39H1 complex. *Cold Spring Harbor Symposium: Programmed Cell Death*, Cold Spring Harbor, New York, NY, 2003.
- Liu DX**, Biswas SC and Greene LA. Regulation of neuronal survival and death by E2F and derepression. *The 32nd Annual Neuroscience Meeting*. San Diego, California, 2002.
- Liu DX** and Greene LA. Inhibition of the cell cycle G1 phase is sufficient to promote neuronal survival.



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- Gordon Res. Conference: Mol. Neural Biology*. Hong Kong, China, 2001.
- Carrano A, Chiaur J, DeSalle L, **Liu DX**, Montagnoli A and Pagano M. Cell cycle inhibitor p27 as a prognostic marker for colon cancers. *Cold Spring Harbor Symposium: Cell Cycle Regulation*, Cold Spring Harbor, New York, NY, 1998.
- Lu Z, **Liu DX**, Hornia A, Devonish W, Pagano M and Foster DA. Activation of protein kinase C triggers its ubiquitination and degradation. *The 13th Ann. Oncogene Meeting*. Friedgrick, MD, 1997.
- Liu DX**, Samarrai W, White A and Rudner R. Heterogeneity in expression of rRNA operons and the stringent response in *B. subtilis*. *Gordon Research Conference: Ann. Conference on B. subtilis*. Wind River, CO, 1995.

#### **CURRENT MEMBERSHIP**

Society for Neuroscience  
New York Academy of Sciences  
Cell Death Association New York Chapter

#### **REFERENCES**

- Lloyd A. Greene**, Ph.D., Professor  
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- Michael L. Shelanski**, Ph.D., Delafield Professor  
Chairman, Department of Pathology and  
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- James E. Goldman**, M.D., Ph.D., Professor  
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- Wei Gu**, Ph.D., Associate Professor  
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