

CURRICULUM VITAE

Revised: 06/2016

NAME: KEQIANG YE

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H-Index/Citation: 48/7217

EMAIL ADDRESS: kye@emory.edu

CITIZENSHIP: USA

CURRENT TITLES AND AFFILIATIONS:

Academic Appointments:

Primary appointments:

Emory University School of Medicine, Department of Pathology and Laboratory
Medicine

09/2010-present - Tenured Full Professor

PREVIOUS ACADEMIC AND PROFESSIONAL APPOINTMENTS:

Emory University School of Medicine, Department of Pathology and Laboratory
Medicine

09/2007-08/2010 - Tenured Associate Professor

11/2001-08/2007 - Assistant Professor

EDUCATION:

1986-1990 B.S. in Chemistry
Jilin University, Changchun, China

1990-1993 M.S. in Chemistry
Peking University, Beijing, China

1993-1998 Ph.D. in Biochemistry and Cell Biology
Emory University,
Atlanta, Georgia 30322
Supervisor: Harish C. Joshi, Ph.D.

POSTGRADUATE TRAINING:

1998-2001 Postdoctoral Fellow, Department of Neuroscience
The Johns Hopkins University School of Medicine,
Baltimore, MD 21205
Supervisor: Solomon H. Snyder, MD

COMMITTEE MEMBERSHIPS:

Institutional:

Neuroscience Program Executive Committee, 2005-2007
MSP Program Executive Committee, 2005

Thesis Committee of Chintan Kikani (Ph.D. student), University of Texas,
Health Science Center, San Antonio, Texas, 2005

Thesis Committee of Shareen Iqbal (Ph.D. Student, Neuroscience program)
Winship Cancer Institute, Emory University, 2006-2012

Thesis Committee of Sharon Owino (Ph.D. Student, Neuroscience Program)
Morehouse Medical College, 2013-2016

EDITORSHIPS AND EDITORIAL BOARDS:

Managing editor for Frontiers in Bioscience (November, 2006)
International Journal of Physiology, Pathophysiology and Pharmacology (IJPPP) (September, 2008)
Editorial Board member in Drug & Biomarker Development (June, 2010)
The International Journal of Biochemistry and Molecular Biology (February, 2011)
Dataset Papers in Oncology (February, 2012)
Associate Editor, Journal of Alzheimer's Disease (December, 2014)

MANUSCRIPT REVIEWER:

ACTA Zoologica Sinica; Molecular and Cellular Biology, Neuropathology & Applied Neurobiology;
Molecular and Cellular Biochemistry; Oncogene; Journal of Cell Biology; Molecular Cell; Journal of
Biological Chemistry; PNAS; Nature Review Cancer; Molecular Biology of Cell; Cellular and
Molecular Life Science; FEBS Letters; Molecular and Cellular Neuroscience; International Journal of
Cancer; Journal of Cellular Physiology; Carcinogenesis; Cellular & Molecular Biology letters; Brain
Research; Current Medicinal Chemistry; Apoptosis; Clinical & Experimental Metastasis; Leukemia;
Neuroscience; Experimental Cell Research; American Journal of Pathology; Medicinal research
Reviews; Circulation Research; Neuroscience Letter; Cell. Molecular Life Science; Chemical Biology;
Journal of Neuroscience, BMC Neuroscience; Cancer Research; EMBO Reports; Trend in Cell Biology,
Molecular Cancer Research; Molecular Pharmacology; BBA; LDDD (Letters in Drug Design &
Discovery), Neuropharmacology; Neurochemistry International; Molecular Vision; Expert Opinion On
Therapeutic Targets; Brain Research; Cell Death & Differentiation; Currant Pharmaceutical design;
Experimental Cell Research; Biochemical Journal, Neuroscience Research, Cell Reports; Nature
Communications; Plos One, Plos Genetics; International Journal of Biological Science (IJBS);
Oncotarget; Bioorganic & Medicinal Chemistry, European Journal of Pharmacology, Journal of
Molecular and Cellular Cardiology; Molecular BioSystem, Scientific Reports; Irish Journal of Medical
Science; Drug Design, Development and Therapy; Current Cancer Drug Targets; Nature Comm.;
Psychiatry Investigation; Oncotarget; Neurobiology of Aging; Behavioral Brain Research; Hum. Mol.
Genetics; Experimental Neurology

GRANT REVIEWER:

Chinese National Natural Science Foundation grant review (May, 2005, 2006)
Austrian Special Research Program (SFB) entitled "Lipotoxicity" (G75-B05), January, 2006
Department of Defense, Neurofibromatosis Research Program (NFRP) Concept Award, May-June,
2006; July, 2012 (Ad. hoc.)

Department of Defense, Breast Cancer Research Program study section committee member (PBY1), 2006-2008

American Cancer Society, TBE study section committee member, 2006-2007

NIH NCI Tumor Cell Biology study section (TCB) February, 2009, ad hoc.

NIH NCI RC1, 2009, ad hoc.

NIH NINDS NOMD study section October, 2009, ad hoc.

Association For International Cancer Research (AICR), January, 2011.

Cancer Research UK (May, 2011)

Department of Veteran Affairs (May, 2011)

Italian Evaluation of Research Quality exercise (VQR 2004-2010)

the French National Research Agency (ANR) (2014, CE11).

HONORS AND AWARDS:

Distinguished Young Scientist Award, The Sontag Foundation (2003-2006)

American Cancer Society Scholar (2004)

Nominee, Keck Foundation Award (2004)

RESEARCH FOCUS:

To study neurotrophin signalings in neuronal cell survival and drug discovery in neuroprotection.

To dissect the physiological roles of PIKE in tumorigenesis and anti-cancer drug development

To determine the molecular mechanisms of neurodegenerative diseases and their drug discovery

PATENTS:

Issued:

- a) 6,376,516 "Noscapine and Noscapine Derivatives, Useful as Anticancer Agent"
- b) 6,673,814 "Delivery Systems and Methods for Noscapine and Noscapine Derivatives, Useful as Anticancer Agent"
- c) 8,609,870 "Treating various disorders using TrkB agonists"
- d) 8,203,009 "Neurotrophic Activity of Deoxygedunin"
- e) 9,040,713 "Insulin Receptor Agonists are Useful for Diabetes Treatment"
- f) 9,029,561 "TrkB Agonists and Methods of Use"
- g) 9,266,817 "Catecholamine Derivatives for Obesity and Neurological Disorders"

Pending:

- a) PCT/US2008/075859, Gambogic amine, a Water Soluble Drug for Neurodegenerative Disease
- b) 61/084,117 and 61/118,907, gedunin and its derivatives useful for neurodegenerative diseases
- c) PCT/US11/53396, METHODS OF MANAGING BLOOD SUGAR LEVELS AND COMPOSITIONS RELATED THERETO
- d) 61/588,682, Allosteric Inhibition of JAK2 Suppresses EGFR Phosphorylation and Angiogenesis, Blocking Glioma Proliferation
- e) 61/978362 TREATMENT OF NEURODEGENERATIVE DISEASES WITH ASPARAGINE ENDOPEPTIDASE (AEP) INHIBITORS AND COMPOSITIONS RELATED THERETO

GRANT SUPPORT:

Active:

Federally Funded:

NIH R01 CA186918 (Ye-PI)

05/01/2015 – 04/30/2020 \$230,000

“Molecular Mechanisms of G5-7 Allosteric inhibition of Jak2”

NIH RO1 NS082338 (Duan Wenzhen-PI at JHU; Ye-PI at Emory)

09/20/2013-08/31/2018 \$76,230

“Huntington’s Disease Biomarkers and Therapeutics”

NIH R21 AG050793; (Stehuwer J-PI; Ye-PI)

09/15/2015-10/01/2018

“TrkB Receptor PET Tracer Development”

Michael J. Fox Foundation (Ye-PI)

“AEP Cleavage of alpha-synuclein in Parkinson's Disease”

11/01/2015-10/30/2016

Previous Funding:

PI, Department of Defense, Neurofibromatosis New Investigator Award, \$554,200,
"Neurofibromatosis 2 Tumor Suppressor, Merlin, Inhibits PIKE/PI 3-Kinase Signaling"
2003 - 2006

PI, The Sontag Foundation, Distinguished Young Scientist Award, \$500,000,
PIKE-A, a novel GTPase that mediates human brain cancer invasion through regulating
Akt
2003 –2006

PI, American Cancer Society for Research Scholar, TBE-105131, \$797,800
Dissection of the Nuclear GTPase PIKE Signaling
January 2004 –December 2007

PI, Department of Defense

Neurofibromatosis Researcher-Initiated Award, \$1,110,363

Akt phosphorylation and PI(3,4,5)P₃ binding coordinately inhibit the tumor suppressive
activity of merlin

February, 2006-January, 2011

PI, NIH RO1

The Role of Merlin Phosphorylation on Tumor Suppressive Activity.

RO1 CA117872; \$1,702,700; March, 2006-February, 2011

CO-PI, NIH NCI (29XS132 ST 04)

Emory Chemical Biology Discovery Center

Interrogation of Key Genomic Alterations in Glioblastoma Multiforme (GBM) for
Identification of Molecular Pathways Critical to GBM Tumorigenesis and Progression

June, 2010 ~ December, 2011

PI, NIH RO1

Molecular Regulation and Biological Functions of PIKE-A
RO1 CA127119; \$1,937,500; July 1st, 2008-June 30th, 2013

PI NIH RO1

Phosphorylation of Acinus Regulates its Biological Functions
RO1 NS060680; \$1,937,500; May 1st, 2009-April 30th, 2014

Alzheimer's Drug Discovery Foundation (Ye-PI)

10/1/2013 – 10/1/2014 \$200,000
"TrkB Agonist Drug Development for Treating Alzheimer's Disease"

PI NIH RO1

Auditory Neuroprotection by Small Molecule Agonists of the TrkB Receptor
RO1 DC010204; \$1,646,875; October 1st, 2009-September 30th, 2014

NIH RO1 NS045627 (Ye-PI)

"Nuclear GTPase PIKE Regulation and Functions"
01/01/2004-12/31/2014 \$157,872

29XS132TO24/POA711 (Fu-PI; Ye-CO-PI)

GBM-PPI Project
3/27/14 – 11/26/15
Leidos Biomedical Research (To explore the essential protein/protein interaction
in glioblastoma tumorigenesis.)

Co-PI, NIH NIA

Emory Alzheimer's Disease Research Center
Catecholamine-derived TrkB agonists for Alzheimer's disease treatment
July, 2010~June, 2015

SE Brain Tumor Foundation (Ye - PI)

05/01/2015 – 04/30/2016
"PIKE-A/Cdk4 Complex in a Novel Drug Target for Treating Glioblastoma"

DOD W81XWH-12-1-0436 (Ye – Co-Inv)

9/30/12 – 9/29/16
"TrkB Activators for the treatment of Traumatic Vision Loss"

FORMAL TEACHING:

Graduate Program:

IBS 520, Introduction to Biochemistry, GMB Graduate Program (2002)

IBS 570R, Intro Graduate Seminar, GMB Graduate Program (2003)

IBS 750, Graduate Course in Neuroscience, Molecular Neurobiology, 2 hours each, January 20 and 23; 2004; 2 hour each, January 31 and February 2, 2006

IBS 702, Graduate Course, Molecular Mechanisms of Signal Transduction, Genetics and

Molecular Biology Graduate Program (2 times, Fall Semester, October 28 and November 2, 2004)

IBS 559, Molecular and cellular Biology; BCDB graduate program (Spring semester, March 3, October 17 and 19, 2006)

Neuroscience graduate program oral examination committee member (February 8-9, 2006)

Techniques in Experimental Neuroscience (November, 2006 & 2007)

IBS702, Molecular Mechanisms of Signal Transduction

(Fall semester, Sept. 30 and Oct. 2, 2008)

IBS514, Neural Signaling, Neuroscience, Spring, 2012

SUPERVISORY TEACHING:

Ph.D. Graduate Students Directly Supervised (rotation students):

Thomas S. Guillot, Amanda Caster, Su Yang, Bing Bai, Robert Moot

Current Post-doctoral Fellows:

Seong Su Kang (November, 2013-present); Zhihao Wang (January, 2015-present)

Zhentaoh Zhang (February, 2012-present); Eun-Hee Ahn (July, 2016-present)

Jerry Wu (July, 2016-present)

Graduate Students:

Jie Xiang; Wanqiang Wu; Chun Chen

Previous Postdoc Fellows:

Rong Rong (March 2002-May 2004),

Research associate, Yerkes Research Center, Emory University

Jee-Yin Ahn, (September 2002 - January, 2005)

Associate Professor, Sungkyunkwan University, South Korea

Joyce Yao (August 2003-July, 2004)

A medical student at University of Miami

Seung-Ju Yang (June, 2005-July, 2006)

Associate Professor, Konyang University, South Korea

Yuanxin Hu (September 2003-March, 2006)

Research Associate, The University of Chicago

Zhixue Liu (September, 2004-June, 2007)

Professor, Shanghai Institute of Nutrition, China

Xiaoling Tang (September, 2004-August, 2007)

Research Scientist, Center for Disease Control (CDC), USA

Masashi Okada (April, 2006-March, 2008)

Associate Professor, Yamagata University School of Medicine, Japan

Sang-Muk Oh (June, 2007-August, 2008)
Assistant Professor, Konyang University, South Korea

Sung-Wuk Jang (June, 2006-July, 2009)
Assistant Professor, Korea University, South Korea

Yi Hong (June, 2009-July, 2011)
Associate Professor, Shanghai Long March Hospital

Chi-Bun Chan (May, 2005-June, 2010)
Assistant Professor, University of Oklahoma, USA

Kun-Yan He (June, 2008-November, 2012)
Associate Professor, Shanghai Jiaotong University

Jiaying Shen (September, 2010-February, 2012)
Research Professor, Institute of Chinese Materia Medica
China Academy of Chinese Medical Sciences

Guifen Qiang (January, 2012-December, 2012)
Postdoctoral Fellow, University of Illinois at Chicago, IL, USA

Xiaoou Sun (October, 2012-September, 2013)
Research Associate, Zhongshan University, China

Obiamaka Obianyo (August, 2011-September, 2013)
Assistant Professor, University of Florida

IL-Son Kwon (May, 2011-June, 2012)
Assistant professor, University of Ulsan, South Korea

Ke Gong (February, 2014-January, 2015)
Postdoc Fellow, Southwestern Medical Center, University of Texas

Qi Qi (June, 2010-March, 2015)
Research Associate, Emory University

Shuai Zhang (June, 2012-January, 2015)
Associate Professor, Jinan University, Guangzhou, China

Undergraduate Students:

Megan Knight; Elizabeth Allard; Eyu-Jin Kim; Fang Alyssa Ren; Emily M. Deal;
Samuel C. Swabb, David Heredia, Amy Jeng, Tzu-Yu Liu
Pai Liu

LECTURESHIPS, SEMINAR INVITATIONS, AND VISITING PROFESSORSHIPS:

Emory University, ADRC center, March 5th, 2015
Morehouse Medical College, October 15th, 2014
University of Maryland at Baltimore, January 24-25th, 2013
Johns Hopkins University, Baltimore, November 5-6th, 2012
Biotech & Pharmaceutical Society, ACSE, Chicago, May 7-10th, 2011
Duke University, February 21-22nd, 2011
Winship Cancer Institute, Emory University, DDAP lecture, February 2nd, 2011
Department of Cell Biology, Emory University, January 5th, 2011
Duke University, Dec. 16-17th, 2010
Georgia State University, Dec. 3rd, 2010
Johns Hopkins University, July 5-6th, 2010
Eli Lilly, Indianapolis, IN, December 16-17th, 2009
University of Southern California, November 29-30th, 2009
University of Alabama at Birmingham, November 16-19th, 2009
UCLA, Los Angeles, October 6-7th, 2009
Tongji University, Shanghai, China, August 27-30th, 2009
University of Wisconsin, Madison, WI, May 5-6th, 2009
Pennsylvania State University, March 24-25th, 2009
University of Cincinnati, Cincinnati, OH, February 11-12nd, 2009
Pfizer, Inc. San Francisco, CA, October 15-16th, 2008
University of Wisconsin, Madison, WI, September 25-26th, 2008
University of Cincinnati, Cincinnati, OH, September 18th, 2008
GSK, R & D research Center in Shanghai, China, July 29th-August 1st, 2008
Cell Signaling Technology, Boston, MA, December 6th, 2007
University of Texas, San Antonio, November 18-19th, 2007
Winship Cancer Center, Emory University, November, 11st, 2007
Whitehead Auditorium, Emory University (Neuroscience Frontier), September 28, 2007
City of Hope, Los Angeles, CA, April 3-4th, 2007
Medical College of Georgia, August, GA, March 27-28th, 2007
University of Western Ontario, Canada, December 14-15th, 2006
Grand Rounds, Emory University, September 29th, 2006
Hongkong Science and Technology University, June 10th, 2006
University of Pennsylvania, June 6th, 2006
The Sontag Foundation, Ponte Verdra, Florida, March 7-8th, 2006
University Ferrara, Ferrara, Italy, October 2-3rd, 2005
The Sontag Foundation, Ponte Verdra, Florida, March 2-3rd, 2005
Gordon Conference (Nuclear Phosphoinositol Signaling), California, February 7th, 2005
Winship Cancer Institute, February 4th, 2005
Gastroenterology Division, Emory University, June 4th, 2004
Ben May Cancer Institute, University of Chicago, June 2-3rd, 2004
The Sontag Foundation, Ponte Verdra, Florida, February 19-20th, 2004
Department of Pharmacology, Emory University, January 27th, 2004
Winship Cancer Institute (Brain Tumor Program), June 21st, 2002
Woodruff Memorial Research Building, Department of Pathology, June 18th, 2003
Whitehead Auditorium, Emory University (GMB Graduate Program), November 21st, 2002

INVITATIONS TO NATIONAL OR INTERNATIONAL CONFERENCES:

- 1) “Delta-secretase mediates Alzheimer’s Disease Pathogenesis” Mol. & Cell. Neurobiol. Gordon Conference, June 12-17th, 2016.
- 2) “Netrin-1 exerts the oncogenic activities through enhancing YAP stability” Jinan University, Guangzhou, China; April 18th, 2016
- 3) “Molecular Pathogenesis in Alzheimer’s Disease and Drug Development”, South Medical University, Guangzhou, China, April 20th, 2016
- 4) 2016 Ruijin International Forum on translational neurodegeneration, Shanghai, April 22nd, 2016
- 5) “Delta-secretase cleaves both APP and Tau in Alzheimer’s disease and its drug development” Zhejiang University, Hangzhou, China; September 1-3rd, 2015
- 6) “Delta-secretase cleaves both APP and Tau in Alzheimer’s disease and its drug development” The Third Military University, Chongqing, China, September 3-5th, 2015
- 7) “Delta-secretase cleaves both APP and Tau in Alzheimer’s disease and its drug development” “Fourth National Dementia Annual Meeting” Beijing, China, May 22-24th, 2015
- 8) “Netrin-1 Exerts its Oncogenic Activities via Stabilizing Yap”. “6th Dependence Receptor Meeting” April 9-12th, 2015, Nankai University, Tianjin, China
- 9) “6th International Symposium on Primate Research”, August 17-19th, 2014, Kunming, Yunan Province, China
- 10) “5th Dependence Receptor Meeting” January 12-16, 2014, Les Menuires, France
- 11) “Medicinal Chemistry in Drug Discovery” Institute of Materia Medica Chinese Academy of Medical Sciences & Peking Union Medical College, Beijing, April 20th, 2013
- 12) “A Small Molecular TrkB agonists Drug Development for Treating Neurological Diseases” Institute of Zoology, Chinese Academy of Sciences, Beijing, China, April 18th, 2013
- 13) “Asparagine Endopeptidase is a novel protease mediating Alzheimer’s onset and progression” Institute of Biophysics, Chinese Academy of Sciences, Beijing, China, April 16th, 2013
- 14) 81st Shuangqing Forum, National Natural Science Foundation of China, Shanghai, October 13-14th, 2012.
- 15) “TrkB Agonist Drug Development” Tongji Medical School, Huangzhong University of Science and Technology, Wuhan, Hubei Province, January 9-10th, 2012
- 16) “TrkB Agonist Drug Development” Xiangya Medical School, Central South University, Changsha, Hunan Province, China, January 12-13th, 2012
- 17) Globe COE the 3rd International Symposium, Nogoya, Japan, December 8th-9th, 2011
- 18) The 52nd AER Symposium, Bologna, Italy, September 26-27th, 2011
- 19) “Drug development for a TrkB receptor agonist”, Eli Lilly, London, United Kingdom, March 12-14, 2011
- 20) “Drug development for a TrkB receptor agonist”, Roche, China R & D Center, Shanghai, China, August 17-18th, 2010
- 21) The symposium in Tongji University, Shanghai, China, August 10-16, 2010
- 22) The Symposium of Chinese Neuroscientists Worldwide 2010, August 4-10th, 2010, Nanchang, China. “Drug development for TrkB receptor agonists”.
- 23) The fourth dependence receptor meeting, March 22-27th, 2010, Fondation des Treilles, France “from basic research to drug development”

- 24) International NGF 2010 conference to be held in Helsinki, Finland, June 10-13, 2010
"Drug Development of a TrkB Agonist"
- 25) Gordon Conference (Neurotrophic factors), Newport, RI, June 21-25, 2009
"Small TrkA and TrkB receptors agonists"
- 25) Children's Tumor Foundation, Naples, FL, June 6-10, 2008
"PI 3-kinase Signaling Regulates Tumor Suppressive Functions of Merlin"
- 26) Gordon Conference, (Biology of 14-3-3), Ventura, California, February 24-29th, 2008
"SRPK2/14-3-3 complex mediates cell cycle and cell death in neurons"
- 27) Advance in Enzyme Regulation, Bologna, Italy, October 2 - 4, 2005
"PIKE Tyrosine Phosphorylation Regulates its Apoptotic Cleavage during Programmed Cell Death,"
- 28) Gordon Conference, Santa Ynez, California, February 7, 2005
"Nucleophosmin/B23, a Nuclear PI(3,4,5)P₃ Receptor, Mediates the Anti-apoptotic Actions of NGF by Inhibiting CAD,"

BIBLIOGRAPHY:

1. Kunyuan Qiu and **Keqiang Ye** (1993). Polymerization and Copolymerization of N-(para-methylphenyl) Maleimide Initiated by N,N-Dimethyl-Para-Toluidine under UV Light Irradiation. *Acta Polymerica Sinica*, **1**, 125-128.
2. **Keqiang Ye**, Jianhua, Dong, Kunyuan Qiu and Xinde Feng (1994). Initiation Mechanism of Photo-Induced Polymerization of N-4-methylphenyl Maleimide Initiated by N,N-Dimethyl-p-Toluidine. *Acta Polymerica Sinica*, **2**, 253-256.
3. **Keqiang Ye**, Yong Ke, Nagalakshmi Keshava, Judith A. Kapp, Rajeshwar R. Tekmal, John Petros and Harish C. Joshi (1998). Opium Alkaloid Noscapine is Anti-Tumor Agent That Arrests Metaphase and Induces Apoptosis in Dividing Cells. *Proc. Natl. Acad. Sci. USA*. **95**, 1601-1606.
4. **Keqiang Ye**, Duane A. Compton, Michael M. Lai, Loren D. Walensky and Solomon H. Snyder (1999). Protein 4.1N Binding to Nuclear NuMA in PC12 Cells Mediates the Anti-proliferative Actions of Nerve Growth Factor. *J. Neurosci.* **19** (24): 10747-10756.
5. **Keqiang Ye**, K. Joseph Hurt, Fredrick Y. Wu, Ming Fang, Hongbo R. Luo, Seth Blackshaw, Christopher D. Ferris and Solomon H. Snyder (2000). PIKE: a Nuclear GTPase That Enhances PI-3 Kinase Activity and is Regulated by Protein 4.1N. *Cell* **103**: 919-930.
6. Ming Fang, Sami Jaffery, Akira Sawa, **Keqiang Ye**, and Solomon H. Snyder (2000). A Novel Nitric Oxide Signaling Pathway: Anchoring of Neuronal Nitric Oxide Synthase to Dexas1 Via Capon. *Neuron* **28**:183-193.
7. Yong Ke, **Keqiang Ye**, Hans E. Grossniklaus, Harish C. Joshi, and Judith A. Kapp (2000). The Opium Alkaloid, Noscapine, Inhibits Tumor Growth and Prolongs Survival of Tumor-bearing Mice When Administered Orally. *Cancer Immunol. Immunother.* **49** (4-5): 217-25.
8. Bahman Aghdassi, **Keqiang Ye**, Adam Resnick, Alex Huang, Jason Ha and Solomon H. Snyder (2001). FKBP12 is Required for G1 Phase Progression. *Proc. Natl. Acad. Sci. USA*. **98**, 2425-2430.
9. Hongbo R. Luo, Adolfo Saiardi, Eichiro Nagata, **Keqiang Ye**, Akira Sawa, and Solomon H. Snyder (2001). A Novel Protein, PINK, Interacts with Inositol Hexakisphosphate Kinase. *Neuron* **31**, 439-451.
10. **Keqiang Ye**, Jun Zhou, Jaren Landen E. Morton Bradbury and Harish C. Joshi (2001). Sustained activation of p34cdc2 is required for noscapine-induced apoptosis. *J Biol. Chem.* **276**, 50, 46697-46700.

11. Zhou Jun, Gupta Kamlesh, Yao Joyce, **Ye Keqiang**, Panda Dulal, Giannakakou Paraskevi, Joshi Harish C. (2002). Paclitaxel-resistant human ovarian cancer cells undergo c-Jun NH2-terminal kinase-mediated apoptosis in response to noscipine. *J Biol. Chem.* 277, 39777-39785.
12. **Keqiang Ye**, Bahman Aghdassi, Hongbo R. Luo, Pann-Ghill Suh, and Solomon H. Snyder (2002). PLC- β 1 is a Physiological Guanine Nucleotide exchange Factor for the Nuclear GTPase PIKE. *Nature*, 415, 541-544.
13. Hongbo R. Luo, Adolfo Saiardi, Hongbo Yu, Eichiro Nagata, **Keqiang Ye** and Solomon H. Snyder (2002). Inositol Pyrophosphates are Required for DNA Hyperrecombination in PKC1 Mutant Yeast. *Biochemistry* 41, 2509-2515.
14. Rong Rong, Jee-Yin Ahn, Peng Chen, Pann-Ghill Suh and **Keqiang Ye**. (2003). The phospholipase activity of PLC- β 1 is required for NGF to activate MAP kinase pathway in PC12 cells. *J Biol. Chem.* 278, 52497-52503.
15. Rong Rong, Honglian Huang, Eichiro Nagata, Daniel Kalman, Judith A. Kapp, Jiancheng Tu, Paul F. Worley, Solomon H. Snyder and **Keqiang Ye** (2003). PIKE-L/Homer Complex Couples mGluR I to PI 3-kinase, Preventing Neuronal Apoptosis. *Nature Neuroscience* 6, 1153-1161.
16. Hongbo R. Luo, Yi Elaine Huang, Jianmeng C. Chen, Adolfo Saiardi, Miho Iijima, **Keqiang Ye**, Yunfei Huang, Eiichiro Nagata, Peter Devreotes and Solomon H. Snyder (2003). Inositol Pyrophosphates Mediate Chemotaxis in *Dictyostelium* via Pleckstrin Homology Domain-PtdIns(3,4,5)P₃ Interactions. *Cell*, 114, 559-572.
17. Bai X, Cerimele F, Ushio-Fukai M, Waqas M, Campbell P, Govindarajan B, Der C, Battle T, Frank DA, **Ye Keqiang**, Murad E, Dubiel W, Soff G, Arbiser JL (2003). Honokiol, a small molecular weight natural product, inhibits angiogenesis in vitro and tumor growth in vivo. *J Biol. Chem.* 278, 35501-7.
18. **Keqiang Ye** and Solomon H. Snyder (2004). PIKE GTPase: a novel mediator of phosphoinositide signaling. *J. Cell Science*, 117, 155-161.
19. Jee-Yin Ahn, Rong Rong, Todd G. Kroll, Erwin G. Van Meir, Solomon H. Snyder and **Keqiang Ye** (2004). PIKE-A, a Novel GTPase, is a Physiologic Regulator of Akt and Mediates Cellular Invasion. *J. Biol. Chem.* 279(16):16441-51.
20. Jee-Yin Ahn, Yuanxin Hu, Todd G Kroll, Erwin G. van Meir and **Keqiang Ye** (2004) PIKE-A is amplified in human cancers and prevents apoptosis by upregulating Akt. *Proc. Natl. Acad. Sci. USA.* 101(18):6993-8.
21. Rong Rong, Ezequiel I. Surace, Carrie A. Haipek, David H. Gutmann and **Keqiang Ye** (2004). Serine 518 Phosphorylation Modulates Merlin Intramolecular Association and Binding to Critical Effectors Important for NF2 Growth Suppression. *Oncogene.* 23, 8447-8454.
22. Jee-Yin Ahn, Rong Rong, Xuesong Liu and **Keqiang Ye** (2004). PIKE/nuclear PI 3-Kinase Mediates the Anti-apoptotic Actions of NGF in the Nucleus. *EMBO J.* 23(20):3995-4006.
23. Rong Rong, Xiaoling Tang, David H. Gutmann and **Keqiang Ye** (2004). The neurofibromatosis 2 (NF2) tumor suppressor, merlin, inhibits PI 3-kinase through interaction with PIKE-L. *Proc. Natl. Acad. Sci. USA.* 101, 18200-18205.
24. Jee-Yin Ahn and **Keqiang Ye** (2005). PIKE GTPase Signaling and Function. *Int. J. Biol. Sci.* 1, 44-51. (review)
25. Jee-Yin Ahn, Xia Liu, Pui-Kwang Chan, Paul A. Wade and **Keqiang Ye** (2005). Nucleophosmin/B23, a Nuclear PI (3,4,5)P₃ Receptor, Mediates the Anti-apoptotic Actions of NGF by Inhibiting CAD. *Mol. Cell* 18, 435-445.
26. Xia Liu and **Keqiang Ye** (2005). Src homology domains in phospholipase C- β 1 mediate its anti-apoptotic action through regulating the enzymatic activity. *J. Neurochem.* 93, 892-898.

27. **Keqiang Ye** (2005). PIKE/nuclear PI 3-kinase signaling in preventing programmed cell death. *J. Cell. Bio.* 96(3) 463-472 (review).
28. **Keqiang Ye** (2005). Nucleophosmin/B23, a multifunctional protein that can regulate apoptosis. *Cancer Biol. Ther.* 4(9):918-923 (review).
29. Yuanxin Hu, Joyce Yao, Zhixue Liu, Xia Liu, Haiyan Fu and **Keqiang Ye** (2005). Akt Phosphorylates Acinus and Inhibits its Proteolytic Cleavage, Preventing Chromatin Condensation. *EMBO, J.* 24: 3543-3554.
30. Yuanxin Hu, Zhixue Liu, Xia Liu and **Keqiang Ye** (2005). Phosphoinositol Lipids Bind to PIKE GTPase and Mediate its Stimulatory Effect on PI 3-kinase and Akt Signalings. *Proc. Natl. Acad. Sci. USA.* 102: 16853-16858.
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