

CURRICULUM VITAE

April, 2016

NAME: Hong Li, Ph.D.
PRESENT TITLE: Associate Professor with Tenure

OFFICE ADDRESS: Department of Microbiology, Biochemistry and Molecular
Genetics, Rutgers-NJMS. 205 South Orange Ave., Newark, NJ 07103

TELEPHONE NUMBER/E-MAIL ADDRESS: 973-972-8396/liho2@rutgers.edu

CITIZENSHIP: USA

EDUCATION:

- A. Undergraduate Graduate and Professional
University of Nevada
Reno, NV
B.S. (Biochemistry) *Date Awarded: 1992*
- B. Graduate and Professional
University of Nevada
Reno, NV
Ph.D. (Biochemistry) *Date Awarded: 1997*

POSTGRADUATE TRAINING:

- A. Internship and Residencies N/A
Location
Discipline
Inclusive Dates
- B. Research Fellowships N/A
Location
Discipline
Inclusive Dates
- C. Postdoctoral Appointments
Albert Einstein College of Medicine.
Molecular Pharmacology
Bronx, NY
1997-1998

MILITARY: N/A

ACADEMIC APPOINTMENTS:

Department of Microbiology, Biochemistry and Molecular Genetics

*Rutgers University-NJMS
Associate Professor with Tenure
7/2013-present*

*Department of Biochemistry and Molecular Biology
UMDNJ-NJMS
Associate Professor with Tenure
7/2010-7/2013*

*Rutgers-NJMS University Hospital Cancer Center
UMDNJ-NJMS
Member
7/2007-present*

*Department of Biochemistry and Molecular Biology
UMDNJ-NJMS
Associate Professor
7/2005-6/2010*

*Department of Biochemistry and Molecular Biology
UMDNJ-NJMS
Assistant Professor
1/2000-6/2005*

HOSPITAL APPOINTMENTS: N/A

*Department
Hospital Name
Title
Inclusive Dates (Month/Year)*

OTHER EMPLOYMENT OR MAJOR VISITING APPOINTMENTS: *(If applicable)*

*Scientist II
Synaptic Pharmaceutical Corporation
Paramus, NJ
Biochemistry and Pharmacology
1998-1999*

PRIVATE PRACTICE *(If applicable):* N/A

LICENSURE: *specialty/#/expiration* N/A

DRUG LICENSURE: N/A

*CDS: #/expiration
DEA: #/expiration*

CERTIFICATION: specialty/#/expiration N/A

MEMBERSHIPS, OFFICES AND COMMITTEE ASSIGNMENTS IN PROFESSIONAL SOCIETIES:

American Society of Mass spectrometry
Member
1992-present

Association of Biomedical Research Facilities
Member
1992-present

HONORS AND AWARDS:

Title
Awarded By
Date

BOARDS OF DIRECTORS/TRUSTEES POSITIONS: N/A

SERVICE ON NATIONAL GRANT REVIEW PANELS, STUDY SECTIONS, COMMITTEES:

NIH NCRR Shared Instrumentation Program. ZRG1 BCMB-D (30) I
2009

NIH NIEHS - Biomarkers Indicative of Mitochondrial Dysfunction. ZES1 LWJ-J (MI) I
2011

NIH CSR - Technology Development of New Affinity Reagents against the Human
Proteome
BST-M (51) *2011*

NIH Special Emphasis Panel: Review Committee for Environmental Exposure and
Neurodegenerative Diseases (R21 & R01s) ZES1 LWJ K R I
2014

NIH Competitive Renewal Study Panel, Development for Protein Affinity Reagents.
ZRG12014 BST-K50 *2014*

NIH Special Emphasis Panel: Biochemistry and Biophysical Chemistry Fellowships
ZRG1 F04B-D (20) *2014*

NIH 2016/05 ZNS1 SRB-N (12): NINDS Institutional Center Core Grants to Support
Neuroscience Research (P30) & High Impact Neuroscience Research Resource Grants
(R24)
ZRG1 F04B-D (20) *2016*

SERVICE ON MAJOR COMMITTEES:

A. International (*Name, Inclusive Dates*)

WELLCOME TRUST PROGRAMME GRANT Review Committee *2009*

*The Netherlands Organization for Health Research and Development, NWO Investment
in Scientific Infrastructure Grant Review Committee* 2012

B. National (*Name, Inclusive Dates*)

C. Medical School/University (*Name, Inclusive Dates*)

NJMS Faculty Council, 2015-2016

Vice President for Research, NJMS Faculty Organization, 2014-2015

Chair, Faculty Investigator Group, 2013-present

Hurricane Sandy Response Evaluation Committee, 2012-present

Proteomics Core Advisory Committee, 2000-present

Technology Task Force, 2008-present

Research Technology Advisory Group, RTAG, 2009-present

Newark Campus Laboratory Safety Committee, 2011-present

Branding and Image - Strategic Plan Steering Committee Workgroup, 2012

Rutgers Shared Instrumentation Grant Review Committee, 2014

D. Hospital (*Name, Inclusive Dates*)

E. Department (*Name, Inclusive Dates*)

Biochemistry and Pathology/MBGC seminar program coordinator, 2011-2013

Computation and Network Committee, 2000-present

F. Editorial Boards (*Journal Name, Inclusive Dates*)

Journal of Open Proteomics, 2009-present

G. AdHoc Reviewer (*Journal Name, Inclusive Dates*)

Journal of Proteome Research, 2000-present

Journal of Proteomics, 2000-present

Journal of Neuroscience Method, 2005-present

Journal of Chromatography, 2010-present

Journal of Biological Chemistry, 2009-present

Journal of Cellular and Molecular Medicine, 2008-present

Mini-Reviews in Medicinal Chemistry, 2008-present

Molecular and Cellular Neuroscience, 2008-present

Bioinformatics, 2010-present

Cancer Therapy, 2009-present

Placenta, 2009-present

Expert Review in Proteomics- 2009-present

Antioxidant and Redox Signaling, 2010-present

Molecular Vision, 2010-present

Integrative Ophthalmology and Visual Science, 2011-present

Free Radical Biology and Medicine, 2011-present

Rapid Communication in Mass Spectrometry, 2011-present

Apoptosis, 2012- present
Developmental Neuroscience, 2012- present
Proteomics, 2012-present
Proteomics-Clinical Applications, 2012-present
BBA Proteomics, 2013-present

SERVICE ON GRADUATE SCHOOL COMMITTEES:

Thesis Committee: Keith Christophers – Biochemistry Mol Biology
Thesis Committee: Kenneth M. Wannemacher– Biochemistry Molec Biology
Thesis Committee: Veera D'mello– Biochemistry Mol Biology
Thesis Committee: Can Huang – Pharmacology Physiology
Thesis Committee: Narayani Nagarajan -Cell Biology
Thesis Committee: Dan Shao -Cell Biology
Thesis Committee: Jessica Mann -Microbiology
Thesis Committee: GANAPATHY Sriram – Microbiology, Biochemistry Molec

Genetics

Thesis Committee: Geng Ke – Microbiology, Biochemistry Molec Genetics
Thesis Committee: Jaemin Byun –Cell Biology and Molecular Medicine
Thesis Committee: Narayani Nagarajan–Cell Biology and Molecular Medicine
Thesis Committee: Yangfe Yang–Cell Biology and Molecular Medicine
Thesis Committee: Sara Gilmast– Pharmacology Physiology
Thesis Committee: Ju Youn Lee– Biochemistry Mol Biology
Thesis Committee: Anton Kolomeyer– Ophthalmology

SERVICE ON HOSPITAL COMMITTEES:

SERVICE TO THE COMMUNITY:

SPONSORSHIP OF CANDIDATES FOR POSTGRADUATE DEGREE:

SPONSORSHIP OF POSTDOCTORAL FELLOWS:

<i>Gang Xiao</i>	<i>2001-2002</i>
<i>Yan Li</i>	<i>2002-2004</i>
<i>Longwen Deng</i>	<i>2002-2004</i>
<i>Jin Qian</i>	<i>2003-2005</i>
<i>Tong Liu</i>	<i>2004-present</i>
<i>Sanqiang Pan</i>	<i>2004-2005</i>
<i>Qun Wang</i>	<i>2004</i>
<i>KS Latha</i>	<i>2005</i>
<i>Oleg Borisov</i>	<i>2005</i>
<i>Mohit R. Jain</i>	<i>2005-2014</i>
<i>Shengjie Bian</i>	<i>2005-2008</i>
<i>Cexiong Fu</i>	<i>2005-2009</i>
<i>Yan Wang</i>	<i>2006</i>

Ahmet T. Baykal	2006-2008
Wei-wen Ge	2006-2007
Jennifer E. Grant	2006-2007
Changgong Wu	2007-2014
Bingjun Jiang	2009-2010
Andrew Parrott	2010-2011
Qing Li	2010-2013
Amit Ketkar	2010-2011

TEACHING RESPONSIBILITIES: (Teaching effectiveness should be addressed in nominating letter)

A. Lectures or Course Directorships

School, course name, lecture title, hours

GRADUATE COURSE	DATE	SCHOOL	DIRECTOR
<i>Protein Structure</i>	<i>Fall 2000</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Core Curriculum</i>	<i>Fall 2000</i>	<i>NJMS</i>	<i>Howells</i>
<i>Molecular Biology of the News</i>	<i>Spring 2001</i>	<i>NJMS</i>	<i>Mathews</i>
<i>Biochemical Techniques</i>	<i>Spring 2001</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Biophysical Chemistry</i>	<i>Spring, 2001</i>	<i>Rutgers-NWK</i>	<i>Jordan</i>
<i>Protein Structure</i>	<i>Fall 2001</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Bioinformatics</i>	<i>Spring 2002</i>	<i>NJMS</i>	<i>Byrnes</i>
<i>Computational Biology</i>	<i>Spring 2002</i>	<i>RWJMS</i>	<i>Byrnes</i>
<i>Molecular Biology of the News</i>	<i>Spring 2003</i>	<i>NJMS</i>	<i>Mathews</i>
<i>Advanced Immunology</i>	<i>Spring 2003</i>	<i>NJMS</i>	<i>Raveche</i>
<i>Protein Structure</i>	<i>Fall 2003</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Analytical Method</i>	<i>Fall 2004</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Protein Structure</i>	<i>Fall 2004</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Molecular Biology of the News</i>	<i>Spring 2005</i>	<i>NJMS</i>	<i>Mathews</i>
<i>Intro to Genomics, Proteomics</i>	<i>Spring 2005</i>	<i>NJMS</i>	<i>Mathews</i>
<i>Adv Genomics, Proteomics</i>	<i>Fall 2005</i>	<i>NJMS</i>	<i>Mathews</i>
<i>Protein Structure</i>	<i>Fall 2005</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Intro to Genomics, Proteomics</i>	<i>Spring 2006</i>	<i>NJMS</i>	<i>Mathews</i>
<i>Fundamental of Biochem</i>	<i>Spring 2006</i>	<i>NJMS</i>	<i>Kotenko</i>
<i>Intro to Genomics, Proteomics</i>	<i>Fall 2006</i>	<i>NJMS</i>	<i>Mathews</i>
<i>Protein Structure</i>	<i>Fall 2006</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Cell Biology</i>	<i>Fall 2006</i>	<i>Rutgers-NWK</i>	<i>Kim</i>
<i>Adv Genomics, Proteomics</i>	<i>Spring 2007</i>	<i>NJMS</i>	<i>Tian</i>
<i>Molecular Biology of the News</i>	<i>Spring 2007</i>	<i>NJMS</i>	<i>Rogers</i>
<i>Intro to Genomics, Proteomics</i>	<i>Fall 2007</i>	<i>NJMS</i>	<i>Tian</i>
<i>Core Course</i>	<i>Fall 2007</i>	<i>NJMS</i>	<i>Rogers</i>
<i>Master Core Course</i>	<i>Fall 2007</i>	<i>NJMS</i>	<i>Wagner</i>
<i>Protein Dynamics in Health</i>	<i>Spring 2008</i>	<i>NJMS</i>	<i>Suzuki</i>
<i>Fundamental of Biochem</i>	<i>Spring 2008</i>	<i>NJMS</i>	<i>Kotenko</i>
<i>Intro to Genomics, Proteomics</i>	<i>Fall 2008</i>	<i>NJMS</i>	<i>Tian</i>
<i>Core Course</i>	<i>Fall 2008</i>	<i>NJMS</i>	<i>Rogers</i>
<i>Master Core Course</i>	<i>Fall 2008</i>	<i>NJMS</i>	<i>Wagner</i>

<i>Protein Dynamics in Health</i>	Spring 2009	NJMS	Suzuki
<i>Molecular Biology of the News</i>	Spring 2009	NJMS	Rogers
<i>Intro to Genomics, Proteomics</i>	Fall 2009	NJMS	Tian
<i>Core Course</i>	Fall 2009	NJMS	Rogers
<i>Protein Dynamics in Health</i>	Spring 2010	NJMS	Suzuki
<i>Fundamental of Biochem</i>	Spring 2010	NJMS	Kotenko
<i>Core Course</i>	Fall 2010	NJMS	Rogers
<i>Intro to Genomics, Proteomics</i>	Spring 2011	NJMS	Tian
<i>Protein Dynamics in Health</i>	Spring 2011	NJMS	Suzuki
<i>Core Course</i>	Fall 2011	NJMS	Coffman
<i>Intro to Genomics, Proteomics</i>	Spring 2012	NJMS	Tian
<i>Protein Dynamics in Health</i>	Spring 2012	NJMS	Suzuki
<i>Fundamental of Biochem</i>	Spring 2012	NJMS	Kotenko
<i>Core Course</i>	Fall 2012	NJMS	Coffman
<i>Seminars in Biomed Sci</i>	Fall 2012	NJMS	Birge
<i>Molecular Biology of the News</i>	Spring 2013	NJMS	Pandey
<i>Intro to Genomics, Proteomics</i>	Spring 2013	NJMS	Li
<i>Protein Dynamics in Health</i>	Spring 2013	NJMS	Suzuki
<i>IBMS</i>	Fall 2013	NJMS	Coffman
<i>Seminars in Biomed Sci</i>	Fall 2013	NJMS	Birge
<i>Fundamental of Biochem</i>	Spring 2014	NJMS	Kotenko
<i>Molecular Biology of the News</i>	Spring 2014	NJMS	Pandey
<i>Intro to Genomics, Proteomics</i>	Spring 2014	NJMS	Li
<i>Protein Dynamics in Health</i>	Spring 2014	NJMS	Suzuki
<i>IBMS</i>	Fall 2014	NJMS	Coffman
<i>Seminars in Biomed Sci</i>	Fall 2014	NJMS	Birge
<i>GMM</i>	Fall 2014	NJMS	O'Connor
<i>Molecular Biology of the News</i>	Spring 2015	NJMS	Pandey
<i>Intro to Genomics, Proteomics</i>	Spring 2015	NJMS	Li
<i>Protein Dynamics in Health</i>	Spring 2015	NJMS	Suzuki
<i>IBMS</i>	Fall 2015	NJMS	Coffman
<i>Medical School MGM</i>	Fall 2015	NJMS	Humayun

B. Research Training

Post Doctoral Fellows: *name, dates (inclusive) of training*

<i>Gang Xiao</i>	2001-2002
<i>Yan Li</i>	2002-2004
<i>Longwen Deng</i>	2002-2004
<i>Jin Qian</i>	2003-2005
<i>Tong Liu</i>	2004-present
<i>Sanqiang Pan</i>	2004-2005
<i>Qun Wang</i>	2004
<i>KS Latha</i>	2005
<i>Oleg Borisov</i>	2005
<i>Mohit R. Jain</i>	2005-2014

<i>Shengjie Bian</i>	2005-2008
<i>Cexiong Fu</i>	2005-2009
<i>Yan Wang</i>	2006
<i>Ahmet T. Baykal</i>	2006-2008
<i>Wei-wen Ge</i>	2006-2007
<i>Jennifer E. Grant</i>	2006-2007
<i>Changgong Wu</i>	2007-2014
<i>Bingjun Jiang</i>	2009-2010
<i>Andrew Parrott</i>	2010-2011
<i>Qing Li</i>	2010-2013
<i>Amit Ketkar</i>	2010-2011

Pre Doctoral Students: *name, dates (inclusive) of training*

Predoctoral Rotation Students Supervised

<i>Zhengbin Zhang</i>	2002
<i>Veera D'mello</i>	2003
<i>Kenneth M. Wannemacher</i>	2005
<i>Raghavendra, Shamma</i>	2007
<i>Raghavendr Sridhar</i>	2014
<i>Chuanlong Cui</i>	2015

CLINICAL RESPONSIBILITIES: (Clinical effectiveness should be addressed in nominating letter)

GRANT SUPPORT: (*Please list newest or most current first*)

A. Principal Investigator

Current

1. R01GM112415 (Multi-P.I.: Annie Beuve and, Hong Li)

National Institutes of Health

NO Signaling by a Soluble Guanylyl Cyclase-Thioredoxin Transnitrosation

04/01/15 to 01/31/19

Total Cost: \$ 1,646,228

Total Direct: \$ 1,035,364

Hong Li Portion

Total Cost: \$ 795,344

Total Direct: \$ 500,216

2. U54HG008098 (P.I. Ravi Iyengar, Mt Sinai School of Medicine. Hong Li, P.I.-Proteomics Core)

National Institutes of Health

Drug Combination Signatures for Prediction and Mitigation of Toxicity
9/10/14-6/30/20
Total Cost: \$12,598,116
Total Direct: \$7,743,690

Hong Li Portion for Rutgers Subcontract
Total Cost: \$908,904
Total Direct: \$571,650

3. P30NS046593 (P.I.: Hong Li)
National Institutes of Health
Renewal of a UMDNJ NeuroProteomics Core Facility
12/1/2004-11/30/15
Total Cost: \$ 7,352,207
Total Direct: \$4,932,287

4. P30NS046593 (Renewal, Corresponding PI, Multi-PI with Peter Lobel, RWJMS)
National Institutes of Health
Rutgers Mass Spectrometry Center for Integrative Neuroscience Research
07/01/15 to 06/30/19
Total Cost: \$2,544,000
Total Direct: \$1,600,000

Hong Li Portion
Total Cost: \$1,526,400
Total Direct: \$960,000

Past

4. P50GM071558-06A1 (P.I. Ravi Iyengar, Mt Sinai School of Medicine. Hong Li, P.I.-Proteomics Core)
National Institutes of Health
SYSTEM BIOLOGY CENTER IN NEW YORK
9/1/13 to 8/31/14
Total Cost: \$2,000,001
Total Direct: \$1,264,580

Hong Li Portion for Rutgers Subcontract
Total Cost: \$39,750
Total Direct: \$25,000

5. UMDNJ Foundation Award
Proteomic Analysis of Trx1 Mediated Redox Signal Transduction
7/01/07-6/30/09
Total Cost: \$70,000
Total Direct: \$70,000

6. NJ Equipment Leasing Fund Award

*New Jersey Commission on Higher Education
Establishment of Center for Advanced Proteomics
10/15/01-10/14/03
Total Cost: \$1,660,000
Total Direct: \$1,660,000*

Pending

7. Molecular Transducers of Physical Activity Metabolomics and Proteomics

Chemical Analysis Sites (U24) ((Multi-P.I.: Hong Li and David Fenyo)

*National Institutes of Health
Physical Activity Proteomics Center at Rutgers and NYU
9/1/16 to 8/30/22
Total Cost: \$27,894,394
Total Direct: \$19,050,000*

Hong Li Portion

*Total Cost: \$23,784,892
Total Direct: \$14,940,498*

B. Co-Investigator

Current

1. R01AG023039 (P.I. Junichi Sadoshima)

*National Institutes of Health
Redox Regulation in Myocardial Disease
05/15/14 to 01/31/19
Total Cost: \$1,351,640
Total Direct: \$950,716*

2. R01HL112330 (P.I. Junichi Sadoshima)

*National Institutes of Health
REGULATION OF MYOCARDIAL GROWTH AND DEATH BY THE HIPPO
PATHWAY
2/1/12 to 11/30/16
Total Cost: \$2,214,320
Total Direct: \$1,419,435*

3. R01HL091469 (P.I. Junichi Sadoshima)

*National Institutes of Health
CARDIOPROTECTIVE EFFECTS OF THIOREDOXIN 1
3/3/13 to 02/28/18
Total Cost: \$2,659,030*

Total Direct: \$1,675,860

Past

4. 1R21AI076937-01A1 (Sergei Kotenko, P.I.)

National Institutes of Health

Evasion of antiviral protection by poxvirus-encoded interferon antagonists

6/05/09-5/31/11

Total Cost: \$427,625

Total Direct: \$275,000

5. 1R21AI073703-01A1 (Virendra Pandey, P.I.)

National Institutes of Health

Proteomics of HCV Replication Complex

5/07/09-4/30/11

Total Cost: \$427,625

Total Direct: \$275,000

6. ALR TIL Grant Award (Sergei Kotenko, P.I.)

American Lupus Research

1/1/09-12/31/10

Total Cost: \$ 489,202

Total Direct: \$ 452,964

7. Columbia University (Edouard Azzam, P.I.)

High Throughput Minimally Invasive Radiation Biodosimetry Center

8/1/08-7/31/10

Total Cost: \$85,000

Total Direct: \$67,460

8. 1S10RR021102 (Lin Yan, P.I.)

National Institutes of Health

QSTAR Elite Pro High Performance Quadrupole Time-of-Flight Mass Spectrometer

4/1/07-3/31/08

Total Cost: \$475,875

Total Direct: \$475,875

9. 1R21GM079255 (Beatrice Haimovich, P.I.)

National Institutes of Health

Induction of Autophagy in Human Macrophages by Lipopolysaccharide

1/01/07-12/31/08

Total Cost: \$427,900

Total Direct: \$275,000

10. 2R01AI034552-12A1 (Michael Mathews, P.I.)

National Institutes of Health

Functions of Double-stranded RNA Binding Proteins
7/15/04-6/30/09
Total Cost: \$2,634,116
Total Direct: \$1,702,888

11. 1R01AI057468-01A1 (Sergei Kotenko, P.I.)
National Institutes of Health
Role of Interferon-lambda in Antiviral Response
12/16/04-11/30/09
Total Cost: \$1,935,425
Total Direct: \$1,250,000

12. 1R01HL067871-01A2 (Gill Diamond, P.I.)
National Institutes of Health
Host-Pathogen Interactions in the Mammalian Airway
Role: Co-investigator
4/1/03-3/31/07
Total Cost: \$1,244,000
Total Direct: \$800,000

13. 1S10 RR15800-01A1 (Michael Mathews, P.I.)
National Institutes of Health
Integrated LC/MS/MS System-LCQ
5/1/02-4/30/03
Total Cost: \$307,650
Total Direct: \$307,650

14. DBI-0100831 (Michael Mathews, P.I.)
National Science Foundation
Integrated LC/MS/MS System-QTOF
5/15/01-5/14/03
Total Cost: \$326,275
Total Direct: \$326,275

15. 2R01DA009113-04A1 (Richard Howells, P.I.)
National Institutes of Health
Purification and Mass Spectrometry of Opioid Receptors
4/01/93-1/31/08
Total Cost: \$971,875
Total Direct: \$625,000

PUBLICATIONS: (Please list newest or most current first; published or accepted for publication only; should be segregated into the following categories)

A. Refereed Original Article in Journal

1. Eoon Hye Ji, Cynthia Diep, Tong Liu, Hong Li, Robert Merrill, Diana Messadi, Shen Hu (2016) Discovery of protein biomarkers for burning mouth syndrome by quantitative proteomics, *Journal of Dental Research*. Submitted.
2. Beuve, A., Wu, C., Cui, C., Liu, T., Jain, R., Huang, C., Yan, L., Kholodovych, V. and **Li, H.** (2016) Identification of Novel S-Nitrosation Sites in Soluble Guanylyl Cyclase, the Nitric Oxide Receptor. *J Proteomics*. pii: S1874-3919(16)30031-8. doi: 10.1016/j.jprot.2016.02.009.
3. Corey Heffernan, Kevin Barretto, Mohit Jain, Tong Liu, **Li H.**, and Patrice Maurel.(2016) "Nectin-like 4 and Choline Transporter-like protein-1 regulate Schwann cell choline, lipid biogenesis and myelination in vitro. *JCB*. Submitted.
4. Matsushima, S., Kuroda J., Zhai P., Liu, T., Ikeda, S., Kinugawa S., Hsu, C., **Li, H.**, Tsutsui H. and Sadoshima J. (2016) Fyn Is A Physiological Regulator of Nox4 in the Heart, *JCI*. Submitted.
5. Zhong, F., Chen, H., Azeloglu, U.E., Wei, C., Zhang, W., Li, Z., Chuang, Y.P., Jim, B., **Li, H.**, Chen, H., Wang, Y., Jia, W., Lee, K. and He, C.J.(2016) Protein S Protects Against Podocyte Injury in Diabetic Nephropathy, *JCI*. Submitted.
6. Ron, A., Azeloglu, U. E., Hu, M., Calizo, C.R., Chen, Y., Jayaraman, G., Ghassemi, S., Neves-Zaph, R.S., **Li, H.**, Gordon, E.R., He, C.J., Hone, C.J. and Iyengar, R. (2016) Information from cell shape enables maintenance of cellular phenotype, *Cell*. Submitted.
7. Liu, T., Wu, C., Mohit, J., Dai, H., Cui, C., Baykal, A.T., Pan, S., Ago, T., Sadoshima, J., and **Li, H.** (2015) Master Redox Regulator Trx1 Upregulates SMYD1 & Modulates Epigenetic Lysine Methylation. *Biochim Biophys Acta*. 1854(12):1816-1822.
8. Stockton, S.D., Gomes, I., Liu, T., Moraje, C., Hipolito, L., Jones, M.R., Maayan, A., Concepcion, J.A., **Li, H.** and Devi, L.A. (2015) Morphine Regulated Synaptic Networks Revealed by Integrated Proteomics and Network Analysis. *Mol Cell Proteomics*. 14(10): 2564-76
9. Sriram, G., Jankowski, W., Kasikara, C., Reichman, C., Saleh, T., Nguyen, K., Li, J., Hornbeck, P., Machida, K., Mayer, B. J., Liu, T., **Li, H.**, Kalodimos, C. G. and Birge, R.B. (2015) Iterative Tyrosin Phosphorylation Controls Non-canonical Domain Utilization in Crk. *Oncogene*. 34(32):4260-9
10. Sugino, I., Sun, Q., Springer, C., Cheewatrakoolpong, N., Liu, T., **Li, H.** and Zarbin A. M.(2015) Two bioactive molecular weight fractions of a conditioned medium enhance RPE survival on age-related macular degeneration and aged Bruch's membrane, *Translational vision science & technology*, In Press.
11. Kabaria, S., Choi C.D., Chaudhuri, D.A., Jain R.M., **Li, H.** and Junn, E. (2015) MicroRNA-7 activates Nrf2 pathway by targeting keap 1 expression, *Free Radical Biology & Medicine*. 8(89): 548-556
12. Heckler, E.J., Kholodovych, V., Jain, M., Liu, T., **Li, H.** and Beuve, A. (2015) Mapping Soluble guanylyl cyclase and protein disulfide isomerase regions of interaction, *Plos One*. 10(11):e0143523.
13. Krishnan, H., Miller, M.T., Ramirez, M.I., Liu, T., **Li H.** and Goldberg, G.

- (2015) PKA and CDK5 phosphorylate specific serines on the intracellular domain of podoplanin (PDPN) to inhibit cell motility, *Exp. Cell. Res.* 335(1):115-22.
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B. Books, Monographs and Chapters

1. Liu, T., Chen, W., Pan, S., Cui, C., **Li, H.**, and Zakharian, E. (2015). Determination of polyhydroxybutyrate (PHB) post-translational modifications of proteins using mass spectrometry. In *Analysis of Post-Translational Modifications and Proteolysis in Neuroscience*. Springer, New York. *Methods in Neuroscience*. Springer, New York, Grant, J. and **Li, H.**, (Eds). In Press.

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3. Grant, J. E., **Li, H.**, (2014). Identifying citrullination sites by mass spectrometry. In *Protein Deimination in Human Health and Disease*, Vol XIII, Springer, New York, Nicholas, A., Bhattacharya, S. (Ed).
4. Fu, C, Liu, T., Parrott, A, **Li, H.**, (2013). Identification of thioredoxin target protein networks in cardiac tissues of a transgenic mouse. in *Heart Proteomics*, Methods in Molecular Biology. Springer, New York. Vivanco, Fernando (Ed.). *Methods Mol Biol.* 2013;1005:181-97.
5. Jain, M. Liu, T. Wood, T., **Li, H.**, (2012). iTRAQ Proteomics Profiling of Regulatory Proteins During Oligodendrocyte Differentiation. in *Expression Profiling in Neuroscience*, Neuromethods, Vol. 64. Springer, New York. Karamanos, Yannis (Ed.) p. 119-138.
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7. Liu, T., Hu, J., **Li, H.**, (2009). iTRAQ-Based Shotgun Neuroproteomics. in *Neuroproteomics, Methods in Molecular Biology*, (chap. 14), Ottens, A. K., Wang, K. K. W. (Eds.), Humana Press, Totowa, p. 322.

C. Patents Held

None

D. Other Articles (Reviews, Editorials, etc.) In Journals; Chapters; Books; other Professional Communications

1. Grant, J and **Li, H.**, (2015). Post-Translational Modifications and Proteolysis in Neuroscience Studies - Introduction. In *Analysis of Post-Translational Modifications and Proteolysis in Neuroscience*. Springer, New York, Grant, J., Li, H., (Ed). In Press.
2. Wu, C., Parrott, A. M., Fu, C., Liu, T., Marino, S. M., Gladyshev, V. N., Jain, M. R., Baykal, A. T., Li, Q., Oka, S., Sadoshima, J., Beuve A., Simmons, W. J. & **Li, H.** (2011) Thioredoxin-mediated post-translational modifications: Reduction, transnitrosylation, denitrosylation and related proteomics methodologies. *Antioxid Redox Signal.* 15(9):2565-604.
3. Jain, M., Ge, W., Elkabes, S and **Li, H.** (2008) Amyotrophic lateral sclerosis: Protein Chaperone Dysfunction Revealed by Proteomic Studies of Animal Models. *Proteomics-Clinical App.* 2, 670-84.
4. Elkabes, S. and **Li, H.** (2007) Proteomic strategies in multiple sclerosis and its animal models. *Proteomics-Clinical App.* 1, 1393-1405.

E. Abstracts: *None*

F. Reports: *None*

PRESENTATIONS:

A. Scientific (*Basic Science Seminars*):

International

1. Fu, C, Wu, C, Liu, T, Ago, T, Sadoshima J and **Li, H.** (2009) Proteomic Identification of Thioredoxin Reductive Target Proteins. 11th Int. Congress on Amino Acids, Peptide and Protein. Vienna, Austria.
2. **Li, H.** (2013) Redox regulatory mechanism of transnitrosylation by thioredoxin. Sun Yet-Sun University, Guangzhou, China.

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