

CURRICULUM VITAE

DATE: January, 2018
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:

<i>NIH NCRR Shared Instrumentation Program. ZRG1 BCMB-D (30) I</i>	2009
<i>NIH NIEHS - Biomarkers Indicative of Mitochondrial Dysfunction. ZESI LWJ-J (MI) 1</i>	2011
<i>NIH CSR - Technology Development of New Affinity Reagents against the Human Proteome BST-M (51)</i>	2011
<i>NIH Special Emphasis Panel: Review Committee for Environmental Exposure and Neurodegenerative Diseases (R21 & R01s) ZESI LWJ K R 1</i>	2014
<i>NIH Competitive Renewal Study Panel, Development for Protein Affinity Reagents. ZRG12014 BST-K50</i>	2014
<i>NIH Special Emphasis Panel: Biochemistry and Biophysical Chemistry Fellowships ZRG1 F04B-D (20)</i>	2014
<i>NIH 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)</i>	2016
<i>NIH Site Visit, University of Washington, Seattle. Comprehensive Biology: Exploiting the Yeast Genome. BIOMEDICAL TECHNOLOGY RESEARCH RESOURCE (P41) 2016-10 ZRG1 CB-D 40 P</i>	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

*The Netherlands Organization for Health Research and Development, Evaluation of research applications
for the E-Rare Transnational research projects on hypothesis-driven use of multi-omic integrated
approaches for discovery of diseases causes and/or functional validation in the context of rare diseases, E-
Rare JTC2018 Call Secretariat*

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 E-Rare JTC2018 Call

Secretariat

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>	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

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>	<i>Spring 2009</i>	<i>NJMS</i>	<i>Suzuki</i>

<i>Molecular Biology of the News</i>	<i>Spring 2009</i>	<i>NJMS</i>	<i>Rogers</i>
<i>Intro to Genomics, Proteomics</i>	<i>Fall 2009</i>	<i>NJMS</i>	<i>Tian</i>
<i>Core Course</i>	<i>Fall 2009</i>	<i>NJMS</i>	<i>Rogers</i>
<i>Protein Dynamics in Health</i>	<i>Spring 2010</i>	<i>NJMS</i>	<i>Suzuki</i>
<i>Fundamental of Biochem</i>	<i>Spring 2010</i>	<i>NJMS</i>	<i>Kotenko</i>
<i>Core Course</i>	<i>Fall 2010</i>	<i>NJMS</i>	<i>Rogers</i>
<i>Intro to Genomics, Proteomics</i>	<i>Spring 2011</i>	<i>NJMS</i>	<i>Tian</i>
<i>Protein Dynamics in Health</i>	<i>Spring 2011</i>	<i>NJMS</i>	<i>Suzuki</i>
<i>Core Course</i>	<i>Fall 2011</i>	<i>NJMS</i>	<i>Coffman</i>
<i>Intro to Genomics, Proteomics</i>	<i>Spring 2012</i>	<i>NJMS</i>	<i>Tian</i>
<i>Protein Dynamics in Health</i>	<i>Spring 2012</i>	<i>NJMS</i>	<i>Suzuki</i>
<i>Fundamental of Biochem</i>	<i>Spring 2012</i>	<i>NJMS</i>	<i>Kotenko</i>
<i>Core Course</i>	<i>Fall 2012</i>	<i>NJMS</i>	<i>Coffman</i>
<i>Seminars in Biomed Sci</i>	<i>Fall 2012</i>	<i>NJMS</i>	<i>Birge</i>
<i>Molecular Biology of the News</i>	<i>Spring 2013</i>	<i>NJMS</i>	<i>Pandey</i>
<i>Intro to Genomics, Proteomics</i>	<i>Spring 2013</i>	<i>NJMS</i>	<i>Li</i>
<i>Protein Dynamics in Health</i>	<i>Spring 2013</i>	<i>NJMS</i>	<i>Suzuki</i>
<i>IBMS</i>	<i>Fall 2013</i>	<i>NJMS</i>	<i>Coffman</i>
<i>Seminars in Biomed Sci</i>	<i>Fall 2013</i>	<i>NJMS</i>	<i>Birge</i>
<i>Fundamental of Biochem</i>	<i>Spring 2014</i>	<i>NJMS</i>	<i>Kotenko</i>
<i>Molecular Biology of the News</i>	<i>Spring 2014</i>	<i>NJMS</i>	<i>Pandey</i>
<i>Intro to Genomics, Proteomics</i>	<i>Spring 2014</i>	<i>NJMS</i>	<i>Li</i>
<i>Protein Dynamics in Health</i>	<i>Spring 2014</i>	<i>NJMS</i>	<i>Suzuki</i>
<i>IBMS</i>	<i>Fall 2014</i>	<i>NJMS</i>	<i>Coffman</i>
<i>Seminars in Biomed Sci</i>	<i>Fall 2014</i>	<i>NJMS</i>	<i>Birge</i>
<i>GMM</i>	<i>Fall 2014</i>	<i>NJMS</i>	<i>O'Connor</i>
<i>Molecular Biology of the News</i>	<i>Spring 2015</i>	<i>NJMS</i>	<i>Pandey</i>
<i>Intro to Genomics, Proteomics</i>	<i>Spring 2015</i>	<i>NJMS</i>	<i>Li</i>
<i>Protein Dynamics in Health</i>	<i>Spring 2015</i>	<i>NJMS</i>	<i>Suzuki</i>
<i>IBMS</i>	<i>Fall 2015</i>	<i>NJMS</i>	<i>Coffman</i>
<i>Medical School MCS</i>	<i>Fall 2015</i>	<i>NJMS</i>	<i>Humayun</i>
<i>IBMS</i>	<i>Fall 2016</i>	<i>NJMS</i>	<i>Mathews</i>
<i>Medical School MCS</i>	<i>Fall 2016</i>	<i>NJMS</i>	<i>Humayun</i>
<i>Intro to Genomics, Proteomics</i>	<i>Spring 2017</i>	<i>NJMS</i>	<i>Hasimi</i>
<i>IBMS</i>	<i>Fall 2017</i>	<i>NJMS</i>	<i>Rogers</i>
<i>Intro to Genomics, Proteomics</i>	<i>Spring 2018</i>	<i>NJMS</i>	<i>Hasimi</i>

B. Research Training

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

<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>
<i>Ahmet T. Baykal</i>	<i>2006-2008</i>
<i>Wei-wen Ge</i>	<i>2006-2007</i>

<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, Shammana</i>	2007
<i>Raghavendr Sridhar</i>	2014
<i>Chuanlong Cui</i>	2015-present

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

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

A. Principal Investigator

Current

1. ***S10 OD025047(P.I.: Hong Li)***
National Institutes of Health
Orbitrap Fusion Lumos Tribrid MS System for Proteomics Research at Rutgers Newark Campus
05/01/18 to 04/30/19
Total Direct: \$1,092,346
 2. ***Fulbright Research Scholar Award***
J. William Fulbright Foreign Scholarship Program
Advanced Protein Technology Research Collaboration between Institut Pasteur and Rutgers University
Total Award:
 3. ***RC-18-AA-00185 (P.I.: Hong Li)***
Rutgers Research Council Grant Award
A Transnitrosation Cascade in Heart Health
06/01/17—5/31/18
Total Award: \$3,000
 4. ***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

5. **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

6. **P30NS046593 (Renewal, Contact 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

7. **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

8. **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

9. **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

10. **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

U54 (P.I. Ravi Iyengar, Mt Sinai School of Medicine. Hong Li, P.I.-Proteomics Core)
National Institutes of Health
Kidney-Heart Tissue Mapping Center
9/01/20-8/31/22

Hong Li Portion for Rutgers Subcontract
Total Cost: \$477,000
Total Direct: \$300,000

RM1 (P.I. Ravi Iyengar, Mt Sinai School of Medicine. Hong Li, P.I.-Proteomics Core)
National Institutes of Health
Mechanisms of Human Cellular Robustness
4/01/19-3/31/24

Hong Li Portion for Rutgers Subcontract
Total Cost: \$795,000
Total Direct: \$500,000

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

Past

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
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. Rhodora Calizo, Coen van Hasselt, Smiti Bhattacharya, Jenny Wong, Robert Wiener, Nicholas Wong, Jia-Jye Lee, Chengguo Wei, Gomathi Jayaraman, Xuhua Ge, Hiu Wai Au, William Janssen, Tong Liu, **Hong Li**, Barbara Murphy, Kirk Campbell Evren Azeloglu Disruption of podocyte cytoskeletal biomechanics by dasatinib leads to nephrotoxicity. Submitted to *Nature Communication*.
2. Nakamura, M., Liu, T., Husain, S., Zhai, P., Warren, J. S., Chiao-Po Hsu, Matsuda, T., Phiel, C. J., Cox, J., Tian, B., Klein, P. S., **Li, H.**, Sadoshima, J. Glycogen Synthase Kinase-3 α Promotes Fatty Acid Anabolism and Lipotoxic Cardiomyopathy. Submitted to *Nature Medicine*.
3. Saito, T., Monden, Y., Maejima, Y., Ikeda, Y., Mukai, R., Sciarretta, S., Liu, T., **Li, H.**, Baljinnyam, E., Fraidenraich, D., Fritzky, L., Zhai, P., Ichinose, S., Isobe, M. Hsu, C.-P., Kundu, M., and Sadoshima, J. Serine 179 phosphorylation of Rab9 mediates mitophagy in ischemic hearts. Submitted to *Journal of Clinical Investigation*.
4. Chen, L., Bian, S., **Li, H.**, and Madura, K., (2018) A role for *Saccharomyces cerevisiae* Centrin (Cdc31) in mitochondrial function and biogenesis. *Molecular Microbiology*. In Press.
5. Zhong, F., Chen, H., Azeloglu, 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. (2018) Protein S Protects Against Podocyte Injury in Diabetic Nephropathy, *J Am Soc Nephrol*. 29(5):1397-1410.
6. Ron, A., Azeloglu, E., Calizo, R., Hu, M., Bhattacharya, S., Chen, Y., Jayaraman, G., Lee, S., Neves-Zaph, S., **Li, H.**, Gordon, R., He, J., Hone, J., and Iyengar, R., (2017) Cell shape information is transduced through tension-independent mechanisms, *Nature Communications*, Dec 15;8(1):2145.
7. Zhou, J., Wu, Y., Chen, F., Wang, L., Rauova, L., Hayes, V.M. Poncz, M., **Li, H.**, Liu, T., Liu, J. and Essex, D., (2017). The disulfide isomerase ERp72 supports arterial thrombosis in mice. *Blood, Journal of the American Society of Hematology*. Aug 10;130(6):817-828.
8. Elzakra, N., Cui, L., Liu, T., **Li, H.**, Huang, J., Hu, S., (2017) Mass spectrometric analysis of SOX11-binding proteins in head and neck cancer cells demonstrates the interaction of SOX11 and HSP90 α . *Journal of Proteome Research*. Nov 3;16(11):3961-3968.

9. Wu, C., Dai, H., Yan, L., Cui, C., Liu, T., Chen, T., and **Li, H.** (2017) Sulfonation of the Resolving Cysteine in Human Peroxiredoxin 1: A Comprehensive Analysis by Mass Spectrometry. *Free Radical Biology & Medicine*. Apr 25;108:785-792.
10. Huang, C., Alapa M., Shu P., Nagarajan N., Wu C., Sadoshima J., **Li H.**, Kholodovych V., Beuve A. (2017) Guanylyl cyclase sensitivity to NO is protected by a thiol oxidation-driven interaction with thioredoxin-1. *J Biol Chem*. Sep 1;292(35):14362-14370.
11. Heffernan C., Jain M.R., Liu T., Kim H., Barretto K., Li H., Maurel P. (2017) Nectin-like 4 complexes with Choline Transporter-Like protein-1, and regulates Schwann cell choline homeostasis and lipid biogenesis in vitro. *J Biol Chem*. Mar 17;292(11):4484-4498.
12. Hammerling, B., Najor, R., Cortez, M., Shires, S. Leon, L., Moreno, E., Boassa, D., Phan, S., Thor, A., Jimenez, R., **Li, H.**, Kitsis, R., Dorn, G., Sadoshima, J., Ellisman, M., and Gustafsson, A. (2017) A Rab5 Endosomal Pathway Mediates Parkin-Dependent Mitochondrial Clearance, *Nature Communications*. Jan 30;8:14050.
13. Ji, E.H., Diep, C., Liu T., **Li H.**, Merrill R., Messadi D., Hu, S. (2017) Potential protein biomarkers for burning mouth syndrome discovered by quantitative proteomics. *Mol Pain*. Jan;13:1744806916686796. Published online 2017 Jan 1. doi: 10.1177/1744806916686796
14. 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*. 138:40-7.
15. 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, *J. Clin Invest*. 126(9):3403-16.
16. Sugino, I., Sun, Q., Springer, C., Cheewatrakoolpong, N., Liu, T., **Li, H.** and Zarbin A. M. (2016) 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*, 5(1):8.
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B. Books, Monographs and Chapters

1. Wu, C., Wu, C., Liu, T., Wang, Y., Yan, L., Cui, C., Beuve A., **Li, H.**, (2018). Biotin switch processing and mass spectrometry analysis of S-nitrosated thioredoxin and its transnitrosation targets” in *Methods Molecular Biology*, Vol. 1747, Alexander Mengel and Christian Lindermayr (Eds): Nitric Oxide, 978-1-4939-7694-2, 428167_1_En, (20).

2. Liu, T., Chen, W., Pan, S., Cui, C., **Li, H.**, and Zakharian, E. (2016). 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). pp 275-287.
3. Jain, M., Wu, Li, Q., Cui, C, Dai, H. and **Li, H.** (2016). Proteomics identification of redox-sensitive nuclear protein targets of Human Thioredoxin 1 from neuroblastoma SHSY-5Y cell line. 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). pp97-110.
4. 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).
5. 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.
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C. Patents Held
None

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

1. Grant, J and **Li, H.**, (2016). 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., (Eds).
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.