Yigong Shi

Personal Information:

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Contact:	+86 (10) 6279-7560 (lab) +86 183 1088 3352 (administrative assistant)
Homepage:	http://ygshi.org
Date of Birth:	May, 1967
Place of Birth:	Zhengzhou, China

Professional Positions:

2018 – present	Founding President, Westlake University, Hangzhou, Zhejiang
2015 – 2018	Vice President, Tsinghua University, Beijing
2011 – present	Director, Center for Structural Biology (renamed to Beijing Advanced Innovation Center for Structural Biology in 2015), Tsinghua University, Beijing
2011 – present	Co-Director, Tsinghua-Peking Joint Center for Life Sciences, Beijing
2009 – 2016	Dean, School of Life Sciences (replacing the Department of Biological Sciences and Biotechnology), Tsinghua University, Beijing
2009 – 2014	Executive Vice Dean, School of Medicine, Tsinghua University, Beijing
2008 – 2009	Vice Chair, Department of Biological Sciences and Biotechnology, Tsinghua University, Beijing
2008 – present	University Professor of biomedical research, Tsinghua University, Beijing
2007 – 2008	Warner-Lambert/Parke-Davis Professor, Department of Molecular Biology, Princeton University, Princeton, New Jersey
2003 – 2007	Professor, Department of Molecular Biology, Princeton University, Princeton, New Jersey

2001 – 2003	Associate Professor (tenured), Department of Molecular Biology, Princeton University, Princeton, New Jersey
1998 – 2001	Assistant Professor, Department of Molecular Biology, Princeton University, Princeton, New Jersey
1996 – 1997	Postdoctoral fellow in the *Structural Biology Laboratory of Tumor Suppressors and Oncogenes* at Memorial Sloan-Kettering Cancer Center, New York, NY. Advisor: Dr. Nikola P. Pavletich
1995	Postdoctoral fellow in the Department of Biophysics and Biophysical Chemistry at Johns Hopkins University School of Medicine, Baltimore, Maryland. Advisor: Dr. Jeremy M. Berg

Education:

1990 – 1995	Ph.D. candidate in the Inter-campus Program in Molecular Biophysics (IPMB) and the Department of Biophysics and Biophysical Chemistry at Johns Hopkins University School of Medicine, Baltimore, Maryland. Advisor: Dr. Jeremy M. Berg
1985 – 1989	Undergraduate education in the Department of Biological Sciences and Biotechnology, Tsinghua University. Received B.S. Degree with highest honor from Tsinghua University, Beijing, China.

Professional Experience:

2016 – present	Vice President, China Association of Science and Technology
2013 – present	Scientific Advisory Board, Institute of Research in Biotechnology, Barcelona, Spain
2013 – present	Scientific Advisory Board, Cold Spring Harbor Conferences Asia
2012 – present	Editorial Board, *Journal of Molecular Biology*
2012 – present	Editorial Board, *Open Biology*
2012 – present	Advisory Board, Qiu Shi Science & Technologies Foundation, HK
2012 – 2014	Board of Reviewing Editors, *eLife*
2011 – present	Editorial Board, *Protein Science*
2011 – present	Editorial Board, *Cancer Cell*
2011 – present	President, Association of Thousand Talent Program, China

2010 – 2013	Member and Co-Chair, Grant Review Committee, Protein Science Key Projects, Ministry of Science and Technology, China
2010 – 2013	Vice Director, Section of Biology and Medicine, Committee on Science and Technology, Ministry of Education, China
2009 – 2011	Member, Scientific Advisory Board, Institute of Molecular and Cell Biology (IMCB), Singapore
2009 – present	Editorial Board, *Cell Research*
2008 – present	Editorial Board, *Science in China*
2008 – 2011	Member, Scientific Advisory Board, Roche R&D China
2008 – 2013	Editorial Board, *Journal of Biological Chemistry*
2005 – present	Member, Scientific Advisory Board, Tetralogic Pharmaceuticals
2006 – 2009	Advisory Committee, MacCHESS
2005 – 2008	President, Chinese Biological Investigators Society (www.CBISociety.org)
2004	Co-founder of Tetralogic Pharmaceuticals
2003 – 2007	Visiting Chair Professor, Department of Biological Sciences and Biotechnology, Tsinghua University
2003 – 2009	Member, NIH Study Sections BBCB, MSFC
2001 – 2008	Member, *Faculty of 1000*
2000 – 2004	Consultant to Novartis Pharmaceuticals

Awards and Honors:

2017	VCANBIO Achievement Award for Biosciences and Medicine
2017	Future Science Prize in Life Sciences
2016	The Ho Leung Ho Lee Award for Achievement in Science and Technology, China
2015	*Nature* Award for Mentoring in science
2014	Bei Shizhang Achievement Award in Biophysics, China
2014	Gregori Aminoff Prize, Royal Swedish Academy of Sciences
2014	JiePing Wu-Paul Janssen Medical & Pharmaceutical Award, China

2013	Academician, Chinese Academy of Sciences, China
2013	Foreign Associate, European Molecular Biology Organization (EMBO)
2013	Honorary Foreign Member, American Academy of Arts and Sciences
2013	Foreign Associate, National Academy of Sciences, USA
2013	Honorary Doctoral Degree, The University of York, UK
2011	The Ray Wu Award, Chinese Biological Investigators Society
2010	The Raymond and Beverly Sackler International Prize in Biophysics, Tel Aviv University, Israel
2010	Qiu Shi Outstanding Scientist Award, Qiushi Foundation, Hong Kong
2010	CC Tan Life Science Achievement Award, Shanghai, China
2009	Fellow, American Association for the Advancement of Science (AAAS)
2008	Investigator, Howard Hughes Medical Institute (declined)
2003	The 2003 Irving Sigal Young Investigator Award, The Protein Society
2000	The Wilson S. Stone Memorial Award The University of Texas M. D. Anderson Cancer Center
1999 – 2002	Searle Scholar Award Searle Scholars Program, The Chicago Community Trust
1999 – 2002	Rita Allen Scholar Award Rita Allen Foundation, New York
1995	Paul Ehrlich Research Award in Basic Science The Johns Hopkins University School of Medicine, Baltimore, Maryland
1989	*Summa cum laude* Tsinghua University, Beijing, China
1984	First Prize, National High School Mathematics Competition, China

Courses taught:

Years	Role	Course
Princeton University (1998-2008):		
2000 – 2006	Co-coursemaster	*Molecular Basis of Cancer*
2002 – 2005	Co-coursemaster	*Structure, Function, and Diseases*
2006 – 2007	Coursemaster	*Structure, Function, and Diseases*
2005	Co-coursemaster	*Biochemistry*
2006 – 2007	Co-coursemaster	*Life and Death of A Cell*
2007 – 2009	Lecturer	*Molecular Basis of Cancer*
Tsinghua University (2008-present):		
2008 – present	Lecturer	*Frontiers in Biophysics*
2010 – present	Co-coursemaster	*Introduction to Structural Biology*
2011 – present	Coursemaster	*Logic and Method of Life Sciences*
2011 – present	Lecturer	*Ethics in Biomedical Research*

Invited Lectures (updated mostly through December 2010)**:**

Johns Hopkins University Oncology Center, Baltimore, Maryland (09/2/1998)

McArdle Colloquium, The McCardle Laboratory for Cancer Research, University of Wisconsin-Madison (10/27/1998)

Biological Seminar Series, Department of Chemistry, Pennsylvania State University-State College (12/14/1999)

Award lecture, Wilson S. Stone Memorial Award, University of Texas MD Anderson Cancer Center (01/09/2000)

Eli Lilly Biological Symposium, American Chemical Society Annual Spring Meeting, San Francisco, California (03/27/2000)

Guilford Pharmaceuticals, Inc. Baltimore, Maryland (09/14/2000)

Kimmel Cancer Center, Philadelphia, Pennsylvania (09/21/2000)

Department of Biophysics and Biophysical Chemistry, Johns Hopkins University School of Medicine, Baltimore, Maryland (10/18/2000)

International Symposium on Functional Genomics, Tsinghua University, Beijing, China (10/24/2000)

National Cancer Institute, Bethesda, Maryland (11/27/2000)

Department of Biology, City University of New York – Queens College, New York City (12/06/2000)

Ben May Institute for Cancer Research, University of Chicago, Chicago, Illinois (01/16/2001).

Department of Microbiology, Rutgers University, Newark, New Jersey (01/30/2001)

Biophysics Seminar Series, Department of Biochemistry and Molecular Biophysics, Columbia University, New York City (02/02/2001)

NCI- Screening Technologies Branch, Frederick, Maryland (02/05/2001)

Biological Chemistry Seminar Series, Department of Chemistry, University of Pennsylvania, Philadelphia, Pennsylvania (02/07/2001)

Norvartis Pharmaceuticals, Summit, New Jersey (02/09/2001)

Frontiers of Biological Sciences in the 21st Century, Beijing, China (06/23/2001)

Department of Biological Chemistry, University of Michigan, Ann Arbor, Michigan (09/11/2001)

Pfizer Pharmaceuticals, Ann Arbor, Michigan (09/12/2001)

Three-dimensional Pharmaceuticals, Exton, Pennsylvania (10/10/2001)

Programmed Cell Death Meeting, Cold Spring Harbor, NY (11/9-11/13/2001). Session co-chair and talk on 11/12/2001.

Department of Biochemistry, University of Texas Southwestern Medical Center, Dallas, Texas (11/28/2001)

Symposium on "Structural Biology of Human Diseases", University of Pennsylvania School of Medicine, Philadelphia, PA (1/25/2001)

ImClone, Inc. New York (1/31/2002)

New York Structural Biology Group Seminar, The Rockefeller University, NY (03/06/2002)

Symposium on Apoptosis, NIH (3/21-22/2002)

The Searle Scholars' Annual Meeting, Chicago, IL (4/21-23/2002)

Tufts University, Boston, MA (4/30/2002)

"Structural Biology of Cell Signaling", Life Science Institute Symposium, University of Michigan, Ann Arbor, Michigan (05/09/2002)

Glaxo-Smithkline Pharmaceuticals, Pennsylvania (5/23/2002)

Cell Death Society Annual Meeting, Australia (05/31/2002)

Center for Cancer Research, Zhongshan University, Guangzhou, China (06/05/2002)

Department of Immunology and Pathology, Washington University School of Medicine, St. Louis, MO (8/26/2002)

2nd International Symposium on Apoptosis, Shanghai, China (9/1/2002-9/3/2002)

The 16th annual CABM Symposium "Modeling human diseases", Center for Advanced Biotechnology and Medicine, Rutgers University, NJ (10/02/2002)

"Ubiquitination in Normal and Cancer Cells", AACR Special Conference, Vancouver, British Columbia, Canada (10/31/2002)

Department of Pharmacology and Cancer Biology, Duke University, Durham, NC (12/04/2002)

Session Chair, Keystone Symposium, "Molecular Mechanisms of Apoptosis", Banff, Alberta, Canada (2/8/2003 – 2/12/2003)

Memorial Sloan-Kettering Cancer Center, New York City, NY (2/28/2003)

Program in Chemistry and Chemical Biology, University of California-San Francisco, California (4/17/2003)

Professor Ying-Lai Wang Memorial Lecture (Keynote speech), the Annual Life Science Symposium, University of Texas Medical Branch at Galveston (5/23/2003)

Symposium on Apoptosis, Airplane House, Cape Cod, Massachusetts (6/1-4/2003)

Plenary session speaker (Award recipient), 17th Symposium of the Protein Society, Boston, Massachusetts (7/28/2003)

The Life Science Institute, University of Michigan, Ann Arbor, Michigan (8/7/2003)

Cold Spring Harbor Meeting on Programmed Cell Death, Cold Spring Harbor, NY (9/17-21/2003)

Department of Biology, Johns Hopkins University, Baltimore, Maryland (9/25/2003)

The Samuel Lunenfeld Research Institute, University of Toronto, Toronto, Canada (10/15/2003)

Department of Biophysics and Biochemistry, University of Pennsylvania School of Medicine, Philadelphia, Pennsylvania (10/22/2003)

Department of Biological Sciences and Biotechnologies, Tsinghua University, Beijing, China (10/30/2003).

Institute of Biophysics, Chinese Academy of Sciences, Beijing, China (10/31/2003)

Departments of Chemistry and Molecular and Cellular Biology, University of California-Berkeley (2/2/2004).

Organizer, 2004 Keystone Symposium, "Apoptosis in Biochemistry and Structural Biology", Keystone Resort, Keystone, Colorado, February 3 - 8, 2004.

Oncology, Bristol-Myers Squibb Company, Princeton, New Jersey (2/20/2004).

Dana-Farber Cancer Institute, Harvard Medical School, Cambridge, Massachusetts (3/2/2004).

Department of Pharmacology, UMDNJ-Robert Wood Johnson Medical School, Piscataway, New Jersey (4/15/2004).

School of Medicine, Johns Hopkins University, Baltimore, Maryland (4/22/2004).

Gordon Research Conference on Proteolytic Enzymes and Their Inhibitors (7/4/2004–7/9/2004).

Speaker and Session Chair, 10th Symposium of the Society of Chinese Bioscientists in America, Beijing, China (July 18–23, 2004).

Symposium "Signal Transduction: From Development to Disease", The Sidney Kimmel Comprehensive Cancer Center at the Johns Hopkins Medical School, Baltimore, Maryland (11/16/2004)

Division of Biology, California Institute of Technology, Pasadena, California (1/26/2005).

AACR Special Conference "Regulation of Cell Death in Oncogenesis", Waikoloa, Hawaii (January 26–30, 2005).

The Burham Institute, La Jolla, California (2/1/2005).

Merck Research Laboratory, West Point, Pennsylvania (3/9/2005).

Keynote Lecture, Yin-Lai Wang Memorial Symposium, University of Texas Medical Branch at Galveston, Texas (04/01/2005)

Keynote Lecture, Society of Chinese Bioscientists in America Texas Chapter, Houston, Texas (04/02/2005)

The Rockefeller University, New York (4/5/2005)

National Institutes of Health, Bethesda, Maryland (5/2/2005).

GTCBIO Cancer Drug Conference, Philadelphia, Pennsylvania (5/26/2005).

Opening seminar, Department of Molecular Biology, Princeton University, Princeton, NJ (9/14/2005).

Session co-chair, Cold Spring Harbor Meeting on Programmed Cell Death, Cold Spring Harbor, NY (9/21-25/2005).

Structural Biology Symposium, Annual Meeting of the Korean Society for Molecular and Cellular Biology, Seoul, Korea (10/17/2005).

National Institute of Biological Science, Beijing, China (10/20/2005).

Institute of Genetics and Development, Chinese Academy of Sciences, Beijing, China (11/3/2005).

5th International Conference on Protein Science, Beijing, China (11/5/2005).

Hamilton Memorial Lecture, Department of Biochemistry, Temple University, Philadelphia, Pennsylvania (11/11/2005).

Cell Biology Program, Memorial Sloan-Kettering Cancer Center, New York (11/18/2005).

The Cancer Institute of New Jersey, New Brunswick, NJ 08901 (2/1/2006).

Tri-institutional Structural Biology Seminar Program, New York City, NY (3/21/2006).

Postdoc-invited seminar & Departmental Colloquium, Department of Biology, MIT, Boston, MA (4/10/2006).

Students-invited seminar, Department of Biochemistry, Duke University Medical Center, Durham, NC (5/15/2006).

Plenary lecture, 10th Biophysics Society Meeting, Qingdao, China (5/25/2006).

Rita Allen Foundation for Systems Biology Symposium, Institute for Advanced Study, Princeton, NJ (6/21/2006).

Ubiquitin for Drug Discovery and Development Symposium, Strategic Research Institute, Philadelphia, PA (6/26-27/2006).

Department of Biology, Brookhaven National Laboratory, Long Island, NY (10/26/2006)

Special Seminar, Burnham Institute, La Jolla, CA (11/29/2006).

Distinguished Lecture Series, Fox Chase Cancer Center, Philadelphia, PA (12/07/2006).

Skirball Institute Seminar Series, New York University Medical Center, New York (3/16/2007).

Graduate students invited Biophysics colloquium, University of Texas Southwest Medical Center, Dallas, TX (3/19/2007).

Departmental Seminar, Department of Molecular Biophysics and Biochemistry, Yale University, New Haven, CT (3/26/2007).

Seminar Series, Abramson Family Cancer Research Institute, University of Pennsylvania, Philadelphia, PA (3/27/2007).

Institute Seminar Series, Stowers Institute, Kansas City, MO (3/28/2007).

Departmental Seminar, Department of Pharmacology Seminar Series, University of Pittsburgh, Pittsburgh, PA (3/30/2007).

Simmons Institute for System Biology, Institute for Advanced Studies, Princeton, NJ (4/6/2007).

Tri-institutional Structural Biology Seminar Program, New York City, NY (4/17/2007).

Keynote speech, Annual Meeting of the Swedish Structural Biology Network, Tällberg, Sweden (6/18/2007).

Organizer, Frontiers in Biological Sciences Symposium, Beijing, China (7/21-24/2007).

Frontiers in Biological Sciences Symposium, Wuhan, China (7/25-26/2007).

Seminar Program, Department of Chemistry, City University of New York, New York, NY (9/12/2007).

Session co-chair, Cold Spring Harbor Meeting on Programmed Cell Death, Cold Spring Harbor, NY (9/26-30/2007).

Seminar Program, Department of Physiology and Cellular Biophysics, College of Physicians & Surgeons, Columbia University, New York (10/9/2007).

Keynote Speech (Closing Lecture), 7th Asian Crystallographic Association Meeting, Taipei, Taiwan, ROC (11/7/2007).

6th International Symposium on Protein Science, Shanghai, China (11/9/2007).

Seminar Program, Department of Biochemistry, Brown University, Rhode Island (12/10/2007).

Keynote speech, Protein Society Symposium, Yantai, China (7/20/2008)

Keynote speech, 4th General Assembly of the Chinese Crystallography Society, Huangshan, China (July 28, 2008).

Speaker, Session C "Frontiers in Life Science", Inaugural Symposium "Mapping Frontiers of Science", Institute for Advanced Study, Hong Kong University of Science and Technology, Hong Kong (Jan. 5-6, 2009).

Session Chair and Speaker, Membrane Proteolysis, Biophysical Society Annual Meeting, Boston, MA (March 2, 2009).

Distinguished Lecture Series, NCI, NIH, Frederick, MD (May 18, 2009).

Plenary Lecture (Ying-Lai Wang Lectureship), 21st IUBMB, Shanghai, China (August 3, 2009).

Session Chair and Speaker, Cell Death Meeting, Cold Spring Harbor Laboratory, Cold Spring Harbor, NY (October 8, 2009)

Frontiers in Basic Cancer Research, the AACR Conference Series, Boston, MA (October 9, 2009)

Membrane Protein Structure and Function, Asian Crystallographic Association Beijing 2009 Conference, Beijing, China (October 24, 2009)

Keynote lecture, 3rd Chinese Structural Biology Conference, Sanya, China (March 4, 2010)

Speaker, Cold Spring Harbor Suzhou Symposium "James Watson Symposium on Cancer", Suzhou, China (April 6-11, 2010)

Award Lecture for the Sackler Prize, Tel Aviv University, Tel Aviv, Israel (April 26, 2010)

Co-organizer and Speaker, Cold Spring Harbor Suzhou Symposium on "Membrane Protein Structure and Function", Suzhou, China (May 10-14, 2010)

Membrane Protein Symposium, Tsinghua University, Beijing, China (May 25, 2010).

Keynote Speech, Bayer Science Day Symposium, Wuppertal, Germany (September 8, 2010)

Special Symposium in Life Sciences, Institute of Molecular and Cellular Biology, Singapore (September 22, 2010)

Special Seminar, Zhongshan University, Guangzhou, China (October 21, 2010)

Plenary Speaker, The 2nd International and 11th National Symposium on Membrane Biology, Ningbo, China (November 9-12, 2010)

Seminar, School of Life Sciences, China Agricultural University, Beijing, China (December 15, 2010)

Award Lecture, Tan Jia-Zhen Life Science Achievement Award, Shanghai, China (December 20, 2010)

University Lecture, East China Normal University, Shanghai, China (December 20, 2010)

Seminars in 2011 and 2012 are yet to be updated.

Speaker, Cold Spring Harbor Asia Symposium on "Non-apoptotic Cell Death", Suzhou, China (April 15, 2013)

Ada Doisy Lectureship, University of Illinois Urbana-Champaign, Urbana, IL (April 26, 2013, together with Dr. Xiaodong Wang)

Keynote Address, Joint Symposium between University of Pittsburgh School of Medicine and Tsinghua University School of Medicine, Pittsburgh, PA (April 30, 2013)

Seminar, Memorial Sloan-Kettering Cancer Center, New York, USA (May 1, 2013)

Seminar, The Rockefeller University, New York, USA (May 2, 2013)

Keynote Speaker, Cold Spring Harbor Suzhou Symposium on "Membrane Protein Structure and Function", Suzhou, China (May 13-17, 2013)

Plenary lecture, Tsinghua-Rohm Symposium on Research and Development, Tsinghua University, Beijing (May 24, 2013)

Plenary Speaker, Engineering Conference International (ECI)'s Biochemical and Molecular Engineering Conference XVII, Beijing, China（June 16, 2013）

Keynote Lecture, HFSP Meeting, Strasbourg, France (July 7, 2013)

Invited Talk, SCBA International Symposium, Xi'An, China (July 22, 2013)

Special Seminar, Beijing Normal University, Beijing, China (November 27, 2013)

University Lecture Series, Wuhan University, Wuhan, China (December 3, 2013)

University Lecture Series, Harbin Institute of Technology, Harbin, China (March 18, 2014)

University Lecture Series, Harbin Medical University, Harbin, China (March 19, 2014)

Keynote Lecture, The Aminoff Prize Symposium 2014: Structural Biology of Cell Signaling, Karolinska Institute, Stockholm, Sweden (April 1, 2014)

Invited Seminar, Uppsala University, Uppsala, Sweden (April 2, 2014)

Invited Seminar, Bristol-Meyer Squibb, Princeton, USA (April 30, 2014)

Invited Seminar, Department of Molecular Biology, Princeton, USA (May 1, 2014)

Keynote Lecture, The 6th DIA (Drug Information Association) China Annual Meeting, Shanghai, China (May 11, 2014)

Invited Seminar, Institute of Genetics and Developmental Biology, Chinese Academy of Sciences (May 19, 2014)

Co-organizer and speaker, Cold Spring Harbor Asia Symposium on Structural Biology: from Atoms to Cells, Suzhou, China (June 9-13, 2014)

To be updated

Invited Talk, 3D EM GRC, Hong Kong (June 12-17, 2016)

Keynote Lecture, The 2016 annual meeting of RNA society, Kyoto, Japan (June 28-July 2, 2016)

Edsall Lecture, Department of Molecular and Cellular Biology, Harvard University (November 10, 2016)

George B. Kistiakowsky Lecture, Department of Chemistry & Chemical Biology, Harvard University (November 14, 2016)

Publications:

(Significant research articles are indicated with asterisks "***")

(1) (***) Xiaofeng Zhang, Xiechao Zhan, Chuangye Yan, Wenyu Zhang, Dongliang Liu, Jianlin Lei and Yigong Shi (2018). Structures of the human spliceosomes before and after release of the ligated exon. ***BioRxiv*** 496695; doi: https://doi.org/10.1101/496695

(2) (***) Ruixue Wan, Rui Bai, Chuangye Yan, Jianlin Lei, and Yigong Shi (2018). Structures of the catalytically activated yeast spliceosome reveal the mechanism of branching. ***BioRxiv*** 500363; doi: https://doi.org/10.1101/500363

(3) (***) Rui Zhou, Guanghui Yang, Xuefei Guo, Qiang Zhou, Jianling Lei, and Yigong Shi (2019). Recognition of the amyloid precursor protein by human γ-secretase. ***Science*** pii: eaaw0930. doi: 10.1126/science.aaw0930. [Epub ahead of print]

(4) (***) Guanghui Yang, Rui Zhou, Qiang Zhou, Xuefei Guo, Chuangye Yan, Meng Ke, Jianling Lei, and Yigong Shi (2019). Structural basis of Notch recognition by human γ-secretase. ***Nature*** 565(7738):192-197. Epub 2018 Dec 31.

(5) Chuangye Yan, Ruixue Wang, and Yigong Shi (2019). Molecular Mechanisms of pre-mRNA Splicing through Structural Biology of the Spliceosome. ***Cold Spring Harb Perspect Biol.*** 11(1). pii: a032409. (commissioned review).

(6) (***) Shenjie Wu, Wenqi Song, Catherine C. L. Wong, and Yigong Shi (2018). Bax inhibitor 1 is a γ-secretase-independent presenilin-binding protein. ***Proc Natl Acad Sci U S A*** 116(1):141-147. Epub 2018 Dec 17.

(7) (***) Xiechao Zhan, Chuangye Yan, Xiaofeng Zhang, Jianlin Lei, and Yigong Shi (2018). Structures of the human pre-catalytic spliceosome and its precursor spliceosome. ***Cell Res.*** 28(12):1129-1140. Epub 2018 Oct 12.

(8) (***) Qiang Su, Feizhuo Hu, Xiaofei Ge, Jianlin Lei, Shengqiang Yu, Tingliang Wang, Qiang Zhou, Changlin Mei, and Yigong Shi (2018). Structure of the human PKD1-PKD2 complex. ***Science*** 361(6406):pii: eaat9819. Epub 2018 Aug 9.

(9) (***) Rui Bai, Ruixue Wan, Chuangye Yan, Jianlin Lei, and Yigong Shi (2018). Structures of the fully assembled Saccharomyces cerevisiae spliceosome before activation. ***Science*** 360(6396): 1423-1429. Epub 2018 May 24

(10) Xi Zhang, Qifan Wang, Jianping Wu, Jiawei Wang, Yigong Shi, and Minhao Liu (2018). Crystal structure of human lysyl oxidase-like 2 (hLOXL2) in a precursor state. ***Proc Natl Acad Sci U S A*** 115(15):3828-3833. Epub 2018 Mar 26.

(11) (***) Xiaofeng Zhang, Chuangye Yan, Xiechao Zhan, Lijia Li, Jianlin Lei, and Yigong Shi (2018). Structure of the human activated spliceosome in three conformational states. ***Cell Res.*** 28(3):307-322. Epub 2018 Jan 23.

(12) (***) Xiechao Zhan, Chuangye Yan, Xiaofeng Zhang, Jianlin Lei, and Yigong Shi (2018). Structure of a human catalytic step I spliceosome. ***Science***, 359(6375):537-545. Epub 2018 Jan 4.

(13) (***) Rui Bai, Chuangye Yan, Ruixue Wan, Jianlin Lei, and Yigong Shi (2017). Structure of the Post-catalytic Spliceosome from *Saccharomyces cerevisiae*. ***Cell***, 171(7):1589-1598. Epub 2017 Nov 16.

(14) (***) Rui Zhou, Guanghui Yang, and Yigong Shi (2017). Dominant negative effect of the loss-of-function γ-secretase mutants on the wild-type enzyme through heterooligomerization. ***Proc Natl Acad Sci U S A.*** pii: 201713605.

(15) (***) Ruixue Wan, Chuangye Yan, Rui Bai, Jianlin Lei, and Yigong Shi (2017). Structure of an intron lariat spliceosome from *Saccharomyces cerevisiae*. ***Cell***, 171(1):120-132.

(16) Yigong Shi (2017). Mechanistic insights into precursor messenger RNA splicing by the spliceosome. ***Nature Reviews Mol. Cell Biol.***, 18(11):655-670 (commissioned review).

(17) Yigong Shi (2017). The Spliceosome: A protein-Directed Metalloribozyme. ***JMB*** 429(17):2640-2653 (commissioned review for the Special issue John Kendrew 100th Birthday).

(18) Guanghui Yang, Rui Zhou, and Yigong Shi (2017). Cryo-EM structures of human γ-secretase. ***Curr Opin Struct Biol.*** 46:55-64 (commissioned review).

(19) (***) Xiaofeng Zhang, Chuangye Yan, Jing Hang, Lorenzo I. Finci, Jianlin Lei, and Yigong Shi (2017). An atomic structure of the human spliceosome. ***Cell*** 169(5): 918-929. Epub 2017 May 11.

(20) (***) Yini Li, Mengying Zhou, Qi Hu, Xiaochen Bai, Sjors H. W. Scheres, and Yigong Shi (2017). Mechanistic insights into caspase-9 activation by the structure of the apoptosome holoenzyme. ***Proc Natl Acad Sci U S A.*** 114(7):1542-1547. Epub 2017 Jan 31.

(21) (***) Chuangye Yan, Ruixue Wan, Rui Bai, Gaoxingyu Huang, and Yigong Shi (2016). Structure of a yeast step II catalytically activated spliceosome. ***Science***. 355(6321):149-155. Epub 2016 Dec 15.

(22) (***) Linfeng Sun, Rui Zhou, Guanghui Yang, and Yigong Shi (2016). Analysis of 138 pathogenic mutations in presenilin-1 on the in vitro production of Aβ42 and Aβ40

peptides by γ-secretase. ***Proc Natl Acad Sci U S A.*** 114(4):E476-E485. doi: 10.1073/pnas.1618657114. Epub 2016 Dec 5.

(23) (***) Chuangye Yan, Ruixue Wan, Rui Bai, Gaoxingyu Huang, and Yigong Shi (2016). Structure of a yeast catalytically activated spliceosome at 3.5 Å resolution ***Science***. 353(6302):904-11. Epub 2016 July 21.

(24) (***) Ruixue Wan, Chuangye Yan, Rui Bai, Gaoxingyu Huang, and Yigong Shi (2016). Structure of a yeast catalytic step I spliceosome at 3.4 Å resolution. ***Science***. 353(6302):895-904. Epub 2016 July 21.

(25) (***) Xiuliang Huang, Bai Luan, Jianping Wu, and Yigong Shi (2016). An atomic structure of the human 26S proteasome. ***Nat Struct Mol Biol.*** doi: 10.1038/nsmb.3273. [Epub ahead of print]

(26) (***) Bai Luan, Xiuliang Huang, Jianping Wu, Ziqing Mei, Yiwei Wang, Xiaobin Xue, Chuangye Yan, Jiawei Wang, Daniel J. Finley, Yigong Shi#, and Feng Wang# (2016). Structure of an endogenous yeast 26S proteasome reveals two major conformational states. ***Proc Natl Acad Sci U S A*** 113(10):2642-7. Epub 2016 Feb 29. (# corresponding authors)

(27) Tianyu Jiang, Minhao Liu M, Jianping Wu, and Yigong Shi (2016). Structural and biochemical analysis of Bcl-2 interaction with the hepatitis B virus protein HBx. ***Proc Natl Acad Sci U S A*** 113(8):2074-9. Epub 2016 Feb 8.

(28) Linfeng Sun, Xiaochun Li, and Yigong Shi (2016). Structural biology of intramembrane proteases: mechanistic insights from rhomboid and S2P to γ-secretase. ***Curr Opin Struct Biol.*** 37:97-107. Epub 2016 Jan 24. (Commissioned review)

(29) (***) Ruixue Wan, Chuangye Yan, Rui Bai, Lin Wang, Min Huang, Catherine C. L. Wong, and Yigong Shi (2016). The 3.8 Å structure of the U4/U6.U5 tri-snRNP: Insights into spliceosome assembly and catalysis. ***Science***. 351(6272):466-75. Epub 2016 Jan 7.

(30) (***) Xiaochen Bai, Eeson Rajendra, Guanghui Yang, Yigong Shi[#], and Sjors H. W. Scheres[#] (2015). Sampling the conformational space of the catalytic subunit of human γ-secretase. ***Elife*** pii: e11182. (# indicates co-corresponding authors)

(31) (***) Mengying Zhou, Yini Li, Qi Hu, Xiaochen Bai, Weijiao Huang, Chuangye Yan, Sjors H. W. Scheres[#], and Yigong Shi[#] (2015). Atomic structure of the apoptosome: mechanism of cytochrome c- and dATP-mediated activation of Apaf-1. ***Genes Dev***. 29: 2349-61.

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