

Curriculum Vitae

Ruey-Hwa Chen, Ph.D.

PERSONAL INFORMATION

BIRTH DATE: May 8, 1961
 MARITAL STATUS: Married
 Gender: Female
 PROFESSIONAL ADDRESS: Institute of Biological Chemistry, Academia Sinica, Taipei, Taiwan
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EDUCATION

<u>University</u>	<u>Degree</u>	<u>Field of Study</u>	<u>Years</u>
National Taiwan University	B.S.	Agricultural Chemistry	1979-1983
National Taiwan University	M.S.	Biochemical Science	1983-1985
Michigan State University	Ph.D.	Biochemistry	1987-1991

RESEARCH AND PROFESSIONAL EXPERIENCE

Research Assistant (9/1985 - 8/1987), Department of Clinical Research, National Taiwan University Hospital
 Postdoctoral Fellow (1/1992 to 9/1995), University of California at San Francisco, Department of Growth & Development
 Assistant Biochemist (10/1995 to 2/1996), University of California at San Francisco, Department of Growth & Development
 Associate Professor (2/1996 to 7/2003), Institute of Molecular Medicine, College of Medicine, National Taiwan University
 Professor (8/2003 to 7/2006), Institute of Molecular Medicine, College of Medicine, National Taiwan University
 Adjunct Professor (8/2006 to present), Institute of Molecular Medicine, College of Medicine, National Taiwan University
 Adjunct Professor (8/2007 to present), Institute of Biochemical Science, National Taiwan University
 Research Fellow (8/2006 to 7/2012), Institute of Biological Chemistry, Academia Sinica
 Deputy Director (8/2011 to 8/2013), Institute of Biological Chemistry, Academia Sinica
 Distinguished Research Fellow (7/2012 to present), Institute of Biological Chemistry, Academia Sinica
 Adjunct Chair Professor (1/2015 to present), Graduate Institute of Cancer Biology, China Medical University

RESEARCH INTEREST

Signal Transduction
 Cancer Biology
 Cell Biology

HONORS AND AWARDS

Outstanding Student, National Taiwan University, 1982
National Defense & Technology Scholarship Award, Taiwan, 1983-1985
Phi Beta Delta - Honor Society for International Scholars, 1989
Outstanding Graduate Student Award, Dept of Biochemistry, Michigan State University, 1991
Postdoctoral Fellowship Award, Tobacco-Related Diseases Research Program, 1993-1995
Special Fellow Award, Leukemia Society of America, 1995-1996
Outstanding Paper Award, Juei-Low Sung's Academic Foundation, 1999
Outstanding Young Investigator Award, Academia Sinica, 2001
Frontier of Research Grant Award, National Science Council, 1998-2003
Frontier of Research Grant Award, National Science Council, 2004-2009
Outstanding Research Award, National Science Council, 1998
Outstanding Research Award, National Science Council, 2000
Outstanding Research Award, National Science Council, 2002
Teaching Award, College of Medicine, National Taiwan University, 2004
Teaching Award, College of Medicine, National Taiwan University, 2006
Academia Sinica Investigator Award, Academia Sinica, 2008-2012, 2013-2017, 2018-2022
Frontier of Research Grant Award, National Science Council, 2009-2014
Frontier of Research Grant Award, National Science Council, 2015-2019
Outstanding Scholar Research Grant, National Science Council, 2009-2012
Honorary Member, TienTe Lee Award Laureate Club, 2011
Merit Research Award, National Science Council, 2012-2015
The 9th Outstanding Award, TienTe Lee Biomedical Foundation, 2013
TBF (Taiwan Biotechnology Foundation) Chair in Biotechnology, 2014
The 59th Academic Award, The Ministry of Education, 2015
Merit MOST Research Fellow Award, 2016
Taiwan Outstanding Women in Science, Wu Chien-Shiung Education Foundation, 2016 (The highest honor for women scientists in Taiwan)
Academic Summit Grant, Ministry of Science and Technology, 2019-2024
TWAS (The World Academy of Sciences) Award in Biology, 2020

CURRENT FUNDING

1) MOST Academic Summit Grant Award

"Assembly, disassembly, and function of K29/48 branched ubiquitination in autophagy and protein quality control"

PI: Ruey-Hwa Chen

Budget: 12,000,000 NTD/annual

Period: 8/1/19 to 7/31/24

2) Academia Sinica Investigator Award

"The role of WDR4-mediated PTPN23 ubiquitination in coordinating lysosomal degradation and exosomal secretion to impact on lung cancer progression and therapy"

PI: Ruey-Hwa Chen

Budget: 5,000,000 NTD/annual

Period: 1/1/23 to 12/31/27

3) NRHI Innovative Research Grant

“The tumor-progression functions, molecular mechanisms, and targeting potential of lncRNA Smyca”

PI: Ruey-Hwa Chen

Budget: 1,700,000 NTD/annual

Period: 1/1/22 to 12/31/24

EDITORIAL TASKS

Editor: Cell & Bioscience (SCBA journal), 2020-2023

Editorial Board: IUBMB Life, 2020

Guest Editor: Special Issue on “Autophagy”, IUBMB Life, 2021

AD HOC REVIEWER FOR INTERNATIONAL JOURNALS

Nature Cell Biology, Molecular Cell, Nature Communications, Journal of Cell Biology, Trends in Biochemical Sciences, Cancer Research, Autophagy, Cell Research, Cell Reports, Cell Death and Differentiation, Oncogene, EMBO Report, Hepatology, Journal of Proteome Research, Journal of Pathology, Human Molecular Genetics, Molecular and Cellular Biology, PLoS One, Scientific Reports, FEBS Journal, Experimental Cell Research, British Journal of Cancer, Laboratory Investigation, Cell Proliferation, Molecular Cancer Research, Molecular Carcinogenesis, Molecular Oncology, Genes & Cancer, International Journal of Cancer, Cell & Bioscience, European Cytokine Network, Journal of Biomedical Science, Journal of the Formosan Medical Association, Liver International, BBA, Breast Cancer Research, Cell Communication and Adhesion, Frontiers in Oncology, Theranostics, Open Biology, IUBMB Life.

INVITED SPEAKER IN THE INTERNATIONAL CONFERENCES

2023 Asian Pacific Societies for Extracellular Vesicles Conference, Taipei, Taiwan, March 31-April 1, 2023.

2022 International Conference on Advanced Biomedical Sciences, Taichung, Taiwan, Nov 4-6, 2022

Conference on the New Trend in Precision Medicine, Taichung, Taiwan, Oct 12-13, 2022

Cold Spring Harbor Asia Meeting on Ubiquitin Family, Autophagy and Diseases, Suzhou, China, May 11-15, 2020 (cancelled due to COVID pandemics).

9th International Symposium on Autophagy, Taipei, Taiwan, Nov 3-7, 2019

17th SCBA (Society of Chinese Bioscientists in America) International Symposium, Kunming, China, July 24-28, 2019

Symposium on Ubiquitination and Proteostasis in Cellular Control, Shenzhen, China, July 22-23, 2019

2019 Kaohsiung International Cancer Symposium, Kaohsiung, Taiwan, March 29-31, 2019

2019 International Symposium on Biomedical Science, Taipei, Taiwan, March 15, 2019

International Congress of Purine Signaling, Foz do Iguacu, Brazil, June 19-22, 2018

12th International Conference on Structural and Molecular Biology, Osaka, Japan, May 14-15, 2018 (Keynote speaker)

The 2nd Meeting of the Taiwan YongLin Healthcare Symposium series on "Immunotherapy and Precision Medicine, Taipei, Taiwan, Dec. 2-3, 2017

2017 International Symposium on Pin1 and Signal Transduction, Fuzhou, China July 17-19, 2017

16th SCBA (Society of Chinese Bioscientists in America) International Symposium, Hangzhou, China, June 29-July 2, 2017

International Symposium on Autophagy, Singapore, May 25, 2017.

The Eighth International Conference on SUMO, Ubiquitin, Ubl proteins, Shanghai, China, Oct. 21-23, 2016.

The 8th Asia Oceania Human Proteomic Organization (AOHUPO) Congress, Taichung, Taiwan, Sept 22-23, 2016 (Keynote speaker)

Cold Spring Harbor Asia Meeting on Ubiquitin, Autophagy and Diseases, Suzhou, China, April 18-22, 2016.

15th SCBA (Society of Chinese Bioscientists in America) International Symposium, Taipei, Taiwan, June 26-29, 2015.

International Symposium on Ubiquitin and Diseases, Zhangjiajie, China, June 14-19, 2015.

The Second Israel-Taiwan Life Science Conference, Tel Aviv, Israel, June 7-9, 2015

Cold Spring Harbor Asia Meeting on Protein Modification and Homeostasis, Suzhou, China, June 16-20, 2014.

The Seventh International Conference on SUMO, Ubiquitin, Ubl proteins, Shanghai, China, May 10-13, 2014.

The 7th Asian-Pacific Organization for Cell Biology Congress, Biopolis, Singapore, Feb 24-27, 2014.

The Ubiquitin Family, Cold Spring Harbor Laboratory Meeting, Cold Spring Harbor, NY, May 14-18, 2013

Anniversary Symposium on Transforming Growth Factor Signaling. UCSF, San Francisco, CA, April 4-5, 2013

The 1st Academia Sinica-Chinese Academy of Sciences Bilateral Symposium. Beijing, China, Dec 3, 2012.

The 17th Annual Meeting Korean Society of Cancer Prevention. Seoul, Korea, Nov 9-10, 2012. (Plenary lecture)

The Sixth International Conference on SUMO, Ubiquitin, Ubl proteins. Houston, TX, Feb 8-11, 2012.

13th SCBA (Society of Chinese Bioscientists in America) International Symposium, GuangZhou, China, July, 2011

The 6th Asian-Pacific Organization for Cell Biology Congress, Nandaluyong City, Philippines, Feb. 2011

The 20th FAOBMB (Federation of Asian and Oceanian Biochemists and Molecular Biologists) Conference, Taipei, Taiwan, Oct 2008.

International Symposium on Cell Signaling and Gene Regulation. Tainan, Taiwan, Nov, 2006.

Taiwan-Scotland Bilateral Developmental Biology Symposium. Taipei, Taiwan, Sept. 2006.

EU Conference on "Calcium/calmodulin-regulated kinases – from protein structure to cellular function" Weizmann Institute of Science, Israel, Dec. 2005.

The New Century Health Care Promotion Foundation 8th Symposium. Taipei, Taiwan, Oct. 2004.

Minisymposium on Cell Signaling and Gene Expression, Tainan, Taiwan, Oct. 2003.

The 16th FAOBMB (Federation of Asian and Oceanian Biochemists and Molecular Biologists) Conference, Taipei, Taiwan, Sept., 2002.

Symposium on Cell Signaling and Gene Expression, Kobe, Japan, Oct., 2001

The 4th AIMBN (Asia-Pacific International Molecular Biology Network) Conference, Taipei, Taiwan, Sept., 2001

FASEB (Federation of American Societies for Experimental Biology) Summer Conference: TGF- β Superfamily, Tucson, Arizona, USA, July, 2001

INVITED SPEAKER IN OTHER MAJOR CONFERENCES

Minisymposium on the Multifaceted Ubiquitin Family. Taipei, Taiwan. April 30, 2024

Minisymposium on Biomolecular Condensates in Biological Processes. Taipei, Taiwan. March 14, 2024

Keynote Speaker, The Taiwan Society for Biochemistry and Molecular Biology Autumn Camp, Taichung, Taiwan, Nov. 10-12, 2023

Minisymposium on Liquid-liquid Phase Separation, Hsinchu, Taiwan, Oct. 4, 2023

Taiwan Bio-development Foundation Annual Meeting, Taipei, Taiwan Sept 15, 2023

NHRI Biomedical Symposium, Zhunan, Taiwan, Aug 9-10, 2023

Plenary speaker, Biophysical Society of the Republic of China Annual Meeting, Hualien, Taiwan, May 17-19, 2023

Academic Summit Annual Meeting, Kaoshiung, Taiwan March 24-25, 2023

Taiwan Bio-development Foundation Annual Meeting, Taipei, Taiwan Sept 21, 2022

Academic Summit Annual Meeting, Taichung, Taiwan March 25, 2022

Taiwan Bio-development Foundation Annual Meeting, Taipei, Taiwan Dec 15, 2021

Academic Summit Annual Meeting, New Taipei City, Taiwan, April, 2021

Taiwan Bio-development Foundation Annual Meeting, Taipei, Taiwan Sept 11, 2020

Taiwan Bio-development Foundation Annual Meeting, Taipei, Taiwan Sept 11, 2019

Keynote Speaker, Biology Summer Camp, New Taipei City, Taiwan, Aug. 26, 2019

Keynote Lecture, The 34th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 23-24, 2019

Taiwan Bio-development Foundation Annual Meeting, Taipei, Taiwan Sept 7, 2018.

The Taiwan Society for Biochemistry and Molecular Biology Autumn Camp, Kaoshiung, Taiwan, Nov. 17-19, 2017

The 12th Across the Taiwan Strait Symposium on Cell Biology, Hualien, Taiwan, March 13-15, 2017

Keynote Speaker, Cell Dynamics Conference, Tainan, Taiwan, Oct. 25, 2016

Keynote Speaker, The 3rd Translational Medicine Conference, Taipei, Taiwan, Sept. 2, 2016

NHRI Biomedical Symposium, Zhunan, Taiwan, Aug. 15, 2016

International Symposium of Cancer Center of Excellence, Taipei, Taiwan, Dec 7, 2015

Special Lecture, The 30th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March 21-22, 2015

Mini-symposium on Autophagy, Taipei, Taiwan, March 17, 2015

Taiwan-Swiss Biomedical Symposium, Taipei, Taiwan, Sept. 10-11, 2013

Keynote speaker, Molecular Medicine Program Annual Retreat, Taiwan Interactional Graduate Program, Taipei, Taiwan, Sept. 6, 2013.

Recent Advances in Molecular Biology and Translational Medicine, Taipei, Taiwan, Aug. 8, 2013

Frontier in Neurodegeneration Diseases and Beyond – from basic to translational, Taipei, Taiwan, May 3-4, 2013

Annual Symposium on Professor Jung-Yaw Lin Education Foundation, Kaoshiung, Taiwan, June 28-29, 2012

Symposium on Chemical Biology, Taipei, Taiwan, March 8-9, 2012

The 2nd Symposium on ubiquitin and ubiquitin-like modifications, Nov, 2011

TienTe Lee Award Laureate Club Symposium, Maoli, Taiwan, Aug, 2011

The 8th Across the Taiwan Strait Symposium on Cell Biology, Tainan, Taiwan, May, 2011

NHRI Biomedical Symposium, Zhunan, Taiwan, Aug 2010

The 25th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March, 2010

The 7th Across the Taiwan Strait Symposium on Cell Biology, Xi-An, China, July, 2009.

The 23th Joint Annual Conference of Biomedical Sciences, Taipei, Taiwan, March, 2008

16th Symposium on Recent Advances in Cellular and Molecular Biology, Kenting, Taiwan, Jan, 2008

Symposium of Protein Modification by SUMO, ubiquitin and Nedd8 (SUN), Taipei, Taiwan, Nov, 2007

IBC Symposium on Protein Post-translational Modifications, Taipei, Taiwan, Dec, 2006.

The 4th Across the Taiwan Strait Symposium on Cell Biology, Kenting, Taiwan, April, 2004

The 3rd Symposium for the Society of Biochemistry and Molecular Biology, Tainan, Taiwan, Nov., 2003

Keynote Speaker, 19th Biology Summer Camp, Taichung, Taiwan, Aug., 2003

The 2nd NHRI Conference for Signal Transduction, Taoyuan, Taiwan, March, 2003

Genetic Society Annual Conference. Taipei, Taiwan, Sept. 2002.

The 1st NHRI Conference for Signal Transduction, Taoyuan, Taiwan, Feb., 2001

The 2nd Across the Taiwan Strait Symposium on Cell Biology, Taipei, Taiwan, Jan, 1999

The 7th Symposium on Recent Advances in Cellular and Molecular Biology (Kenting Winter Camp), Kenting, Taiwan, Jan, 1999.

INVITED SEMINAR (Foreign)

Invited Seminar, Biozentrum, University of Basel, Switzerland. Sept. 24, 2024

Invited Seminar, Department of Oncology, University of Lausanne, Switzerland. Sept. 20, 2024

Invited Seminar, Institute of Oncology Research, ETH Zurich, Switzerland. Sept. 18, 2024

Invited Seminar, Department of Biological Sciences, National University of Singapore, Nov. 29, 2023

Invited Seminar, Dept. of Molecular Microbiology and Immunology, University of Southern California, Feb 3, 2023

Invited seminar, Cellular and Molecular Oncology, College de France, France, June 15, 2018

Invited seminar, Dept. of Molecular Genetics, Weizmann Institute, Rehovot, Israel, June 11, 2015

Invited seminar, Institute of Biomedical Sciences, East China Normal University, Shanghai, China, June 12, 2014

Invited seminar, Shanghai Institutes for Biological Sciences, Chinese Academy of Science, Shanghai, China, June 13, 2014

Invited seminar, UC Davis Cancer Center, Sacramento, CA, April 4, 2013

Invited seminar, Life Science Institute, Zhejiang University, China, May 31, 2012

Invited seminar, Fujian Medical University, Fuzhou, China, May 29, 2012

Signal Transduction Friday Seminar Series at Harvard Medical School, Dec 4, 2009.

Special Seminar at Department of Biochemistry and Molecular Biology, Michigan Sate University, Sept. 10, 2010.

Special Seminar at Institute for Cancer Genetics, Columbia University, NYC, USA, May 23, 2011.

Seminar at NHLBI, NIH, May 27, 2011.

MEETING ORGANIZAER

Co-Chair, ICCB (International Congress for Cell Biology)/APOCB (Asian Pacific Organization for Cell Biology) Joint Conference, Taipei, Taiwan, Oct. 2021.

Organizing Committee and Program Committee Chair, 9th International Symposium on Autophagy, Taipei, Taiwan, Nov 3-7, 2019

Program Committee, 17th SCBA (Society of Chinese Bioscientists in America) International Symposium, Kunming, China, July, 2019

Organizing Committee, The Taiwan Society for Biochemistry and Molecular Biology Autumn Camp, Kaoshiung, Taiwan, Nov 2017

Organizing Committee and Symposium Chairperson, 23th Symposium on Recent Advances in Cellular and Molecular Biology (Kenting Winter Camp), Kenting, Taiwan, Jan, 2016.

Organizing Committee, 21th Symposium on Recent Advances in Cellular and Molecular Biology (Kenting Winter Camp), Kenting, Taiwan, Jan, 2014.

Organizing Committee and Symposium Chairperson, The 2nd International Symposium on ubiquitin and ubiquitin-like modifications, Taipei, Taiwan, Nov, 2011.

Organizing Committee, Biology Summer Camp, Nanto, Taiwan, 2011

Organizing Committee, 8th Across the Taiwan Strait Symposium on Cell Biology, Tainan, Taiwan, May, 2011

Organizing Committee and Symposium Chairperson, The 20th FAOBMB (Federation of Asian and Oceanian Biochemists and Molecular Biologists) Conference, Taipei, Taiwan, Oct 2008.

Organizing Committee, Symposium of Protein Modification by SUMO, ubiquitin and Nedd8 (SUN), Taipei, Taiwan, Nov, 2007

Co-chair, NHRI Conference on Signal Transduction and Developmental Biology, Zhunan, Taiwan, May, 2007

Organizing Committee, 15th Symposium on Recent Advances in Cellular and Molecular Biology (Kenting Winter Camp), Kenting, Taiwan, Jan, 2007.

Organizing Committee, IBC Symposium on Protein Post-translational Modifications, Taipei, Taiwan, Dec, 2006

Organizing Committee, 14th Symposium on Recent Advances in Cellular and Molecular Biology (Kenting Winter Camp), Kenting, Taiwan, Jan, 2006.

Organizing Committee, 3rd NHRI Conference on Signal Transduction, Zhunan, Taiwan, March, 2005

Organizing Committee, 13th Symposium on Recent Advances in Cellular and Molecular Biology (Kenting Winter Camp), Kenting, Taiwan, Jan, 2005.

Organizing Committee, 12th Symposium on Recent Advances in Cellular and Molecular Biology (Kenting Winter Camp), Kenting, Taiwan, Jan, 2004.

Organizing Committee, 2nd NHRI Conference on Signal Transduction, Taoyuan, Taiwan, March, 2003

Organizing Committee, 11th Symposium on Recent Advances in Cellular and Molecular Biology (Kenting Winter Camp), Kenting, Taiwan, Jan, 2003.

Organizing Committee, 1st NHRI Conference on Signal Transduction, Taoyuan, Taiwan, Feb., 2001

SERVICE

Domestic service

(1) Service outside of Academia Sinica

- 1998-Present Ad hoc primary/secondary reviewer for NSC (National Science Council)/MOST (Ministry of Science and Technology) grants (including R01 grant, PPG, and other special grants)
- 2004-2006 Deputy Chair, Innovative Research Project Committee, NRPGM
- 2006-2010 Member, Innovative Research Project Committee, NRPGM
- 2007-2009 Chair, Division of Biochemistry, Molecular Biology, and Pharmacology, Department of Life Sciences, NSC
- 2007-2011 Reviewer, NSC Postdoctoral Fellowship
- 2009 Member/Reviewer, Higher Education Evaluation & Accreditation Council in Taiwan
- 2009-2011 Scientific Review Committee, NHRI Integrated Research Grants (SRC-3)
- 2013-2016 Scientific Review Committee, NHRI Integrated Research Grants (SRC-3)
- 2018-present Scientific Review Committee, NHRI Integrated Research Grants (SRC-3)
- 2011-present Member, National Yang Ming University Research Excellence Award Committee
- 2009-2015 Member, National RNAi Core Facility User Committee
- 2015-present Chair, National RNAi Core Facility (RNA technology Platform and Gene Manipulation Core) User Committee
- 2011-2013 Ad hoc reviewer, NSC Stem Cell Grants
- 2012-present Reviewer/Review Committee Member for TienTe Lee Award (Young Scientist Award and Distinguished Thesis)
- 2013-2017, 2020 Reviewer, NSC/MOST Outstanding Research Award
- 2013-present Member, Recruitment and Reappointment Committee, IMG, NHRI
- 2013-present Member, NHRI Recruitment and Promotion Committee
- 2013-2015 Committee Member, Award for Outstanding Contributions in Science and Technology, Executive Yuan
- 2013-2016 Advisory Committee, International Center of Excellence in Cancer Research
- 2013-2017 National Cheng Kung University Distinguished Professor Reviewer and Outstanding Paper Award Reviewer
- 2022-2023 National Cheng Kung University Outstanding Paper Award Reviewer
- 2013-2015 National Chung Hsing University Distinguished Professor Reviewer Committee
- 2015 Ad hoc Scientific Review Committee Member for National Institute for Cancer Research, NHRI
- 2015-2018 Reviewer, Bilateral grant for NTUH and NTU College of Medicine
- 2020-2021 Reviewer, Bilateral grant for NTUH and NTU College of Medicine
- 2023 Reviewer, Bilateral grant for NTUH and NTU College of Medicine
- 2016-present Review Committee, Wang Ming Ning Memorial Foundation

2017 Ad hoc Scientific Review Committee Member for Institute of Molecular and Genomic Medicine, NHRI
 2019, 2022 Reviewer, Y. Z. Hsu Scientific Award
 2020-2024 Review Committee Member, National Professorships and Academic Awards, MOE
 2020 Reviewer, Postdoctoral Research Award, MOST
 2020 Review, Ta-You Wu Memorial Award, MOST
 2020-present Reviewer, NTU Higher Education Sprout Project
 2021-2022 Academic Ethics Committee member, MOE
 2021-2023 Reviewer, High Education Sprout Project, MOST
 2022-present Advisory Board Member, Cancer Progression Research Center, National Yang Ming Chiao Tung University
 2022 Review Committee Member, Taiwan Outstanding Women in Science, Wu Chien-Shiung Education Foundation
 2022-present Reviewer, Taipei Medical University Distinguished Professor
 2023 Reviewer, Advanced Research Center Grant, NSTC
 2023 Life Science Review Committee Member, Presidential Science Prize
 2023 Director Recruitment Committee Member, IMG, NHRI
 2023 Reviewer, The Chiung-Lin Chen Memorial Award for Translational Medicine

(2) Service in Academia Sinica

2006-2007 Member, Academia Sinica Biosafety Committee
 2007-2011 Chair, Academia Sinica Common Animal Facility Management Committee
 2007-2011 Member, Academia Sinica Recruitment and Promotion Committee, Life Science Division
 2009-2011 Member, Academia Sinica Ethic Committee
 2010-2016 Member, Academia Sinica Institutional Review Board
 2016-2018 Deputy Chair, Academia Sinica Institutional Review Board
 2015-2017 Elected Council Member of Academia Sinica
 2016-2017 Elected Member, The Committee for Improvement of Organization and Operation at Academia Sinica
 2017-2019 Review Committee Member, Academia Sinica Young Investigator Award
 2021-2022 Ad Hoc Committee member of Academia Sinica Animal Facilities
 2022-present Chair, Academia Sinica Recruitment and Promotion Committee, Life Science Division
 2023 Review Committee Member, Academia Sinica Early-Career Investigator Research Achievement Award

(3) Service in professional societies

2003-2019 Council member, The Chinese Society of Cell and Molecular Biology
 2023 Council member, The Chinese Society of Cell and Molecular Biology
 2007-2015 Council member, The Taiwan Society for Biochemistry and Molecular Biology
 2018-present Council member, The Taiwan Society for Biochemistry and Molecular Biology
2019-2023 President, The Chinese Society of Cell and Molecular Biology
2022-present President, International Federation for Cell Biology

International service

2007-2008 Ad hoc reviewer for NSF Grants (USA)
 2009 Ad hoc reviewer for Wellcome Trust-DBT India Alliance Grant
 2012 Ad hoc reviewer for Prostate Action grant (UK)
 2023 Ad hoc reviewer for ISF (Israel Science Foundation) Grant

- 2019-present Member, IUBMB (International Union of Biochemistry and Molecular Biology) Fellowship Committee
- 2019- present Expert Panel for the Life Sciences and Biomedical Engineering Discipline Cluster, Ministry of Education, Singapore

POSTDOCTORAL TRAINEES

Past:

- Chun-Hau Chen (currently Registered Nurse in Boston)
- Won-Jin Wang (currently Associate Professor at National Yang Ming Chiao Tung University)
- Jean-Cheng Kuo (currently Professor at National Yang Ming Chiao Tung University)
- Cynthia Wei-Sheng Lee (currently Associate Professor at China Medical University)
- Hsin-Yi Chen (currently Assistant Professor at Taipei Medical University)
- Che-Hung Shen (currently Assistant Investigator at National Health Research Institutes, Taiwan)
- Mei-Yao Lin (currently Senior Scientist at Neuron23, Inc.)
- Yu-Min Lin (currently Associate Researcher, National Laboratory Animal Center)
- Yu-Ru Lee (currently Assistant Research Fellow, Institute of Biomedical Sciences)
- Wei-Chien Yuan (currently Assistant Professor at National Yang Ming Chiao Tung University)
- Hsin-Chieh Wu (currently Postdoctoral Fellow at College de France)
- Ya-Ting Wang (currently Postdoctoral Fellow at Memorial Sloan Kettering Cancer Center)
- Boon-Shin Tan (currently Manager in a biotech company)
- Pei-Rung Wu (currently Assistant Professor at Chang Gung University)
- Yuh-Hsuan Chen (currently Postdoctoral Fellow at UCSD)

Present:

- Chien-Han Kao
- Shaifali Singh

GRADUATE STUDENTS

Ph.D. Program

Past:

- Yuh-Tyng Tsai (Ph.D., 2003; currently Research Scientist at ITRI, Taiwan)
- Shuei-Liong Lin (Ph.D., 2004; currently Professor at National Taiwan University)
- Chun-Hau Chen (Ph.D., 2004; currently Registered Nurse in Boston)
- Won-Jin Wang (Ph.D., 2005; currently Associate Professor at National Yang Ming Chiao Tung University)
- Jean-Cheng Kuo (Ph.D., 2005; currently Professor at National Yang Ming Chiao Tung University)
- Hsin-Yi Chen (Ph.D., 2007; currently Associate Professor at Taipei Medical University)
- Che-Hung Shen (Ph.D. 2008; currently Assistant Investigator at National Health Research Institutes, Taiwan)
- Yu-Ru Lee (Ph.D., 2011; currently Assistant Research Fellow, Institute of Biomedical Sciences, Academia Sinica)
- Pei-Rung Wu (Ph.D., 2011; currently Assistant Professor at Chang Gung University)
- Mei-Yao Lin (Ph.D., 2011; currently Senior Scientist at Neuron23, Inc.)
- Yu-Min Lin (Ph.D., 2012; currently Associate Researcher, National Laboratory Animal Center)
- Wei-Chien Yuan (Ph.D., 2013; currently Assistant Professor at National Yang Ming Chiao Tung University)
- Hsin-Chieh Wu (Ph.D., 2014; currently Chercheur Postdoctoral at College de France)
- Yu-Ching Lin (Ph.D., 2014; currently Project Manager at Abnova, Inc.)

Chin-Chih Liu (Ph.D., 2015; currently Postdoctoral Fellow at Harvard Medical School)
 Ya-Ting Wang (Ph.D., 2017; currently Postdoctoral Fellow at Memorial Sloan Kettering Cancer Center)
 Fei-Yun Chen (Ph.D., 2018; currently Postdoctoral Fellow in IBMS, Academia Sinica)
 Yuh-Hsuan Chen (Ph.D., 2020; currently Postdoctoral Fellow in UCSD)
 Shang-Yin Chiang (Ph.D., 2021; currently Scientist at Aligent, Inc.)
 Shaifali Singh (Ph.D., 2023; currently postdoctoral fellow in my lab.)

Present:

Nai-Yang Yeat
 Ming-Chieh Chou
 Han-Hsiun Chen
 Chia-Wei Chen

Master Program

Past:

Chuan-Wei Jang (M.S., 2001; Ph.D. at Baylor College of Medicine; R&D Manager at BELX Pharmaceutical Co., Ltd.)
 Jia-Jen Lin (M.S., 2002; Ph.D. at Stanford University; currently Technical Director at Harvard Medical School)
 Jia-Yun Chen (M.S., 2002; Ph.D. at Stanford University; currently Research Fellow at Harvard Medical School)
 Feng-Chi Lin (M.S., 2003; currently Manager in DuPont, Taiwan)
 Hsuan-Chung Ho (M.S., 2004; Ph.D. at UC Davis; currently Research Senior Scientist at Takeda)
 Yu-Min Lin (M.S., 2004; Ph.D. at NTU; currently Associate Researcher, National Laboratory Animal Center)
 Yuan-Ping Huang (M.S., 2005; Ph.D. at Columbia University; currently Principal at Applied Ventures LLC)
 Wei Ku (M.S., 2005, currently founder of COFE)
 Yi-Ru Chen (M.S., 2005, currently CRA in Bristol-Myers Squibb)
 Ming-Shien Lin (M.S., 2007; currently CRA in Merck)
 Yi-Chien Lee (M.S., 2007; Currently Statistics Programming Lead)
 Wei-Chien Yuan (M.S., 2007; Ph.D. at NTU; currently Assistant Professor at National Yang Ming Chiao Tung University)
 Fang-Yen Li (M.S., 2009; Ph.D. at NTU; currently Postdoctoral fellow at Academia Sinica)
 Cheng-Ta Chiang (M.S., 2009; currently CRA in Pharmaceutical Company)
 Chun-Kai Lai (M.S., 2009; currently Production Head in Pharmaceutical Industry)
 Li-Ting Lu (M.S., 2010, currently Research Scientist at Far Eastern New Century Corp.)
 Ching-Rung Lin (M.S., 2010; Ph.D. at Cornell Medical College; currently NGS Scientist at Admera Health)
 Tzu-Ying Chen (MS, 2011; currently Assistant Research Fellow at Tanvex Biologics Corp.)
 Hsiang-Chin Chung (M.S., 2011; Ph.D. at Baylor College of Medicine; currently Scientist at Interline Therapeutics)
 Fei-I Lien (M.S., 2012)
 Tse-Hsiang Chen (M.S., 2012; Ph.D. at ETH Zurich; currently EU Grant Advisor at UMC Utrecht)
 Jui-Yu Hu (M.S., 2013; currently Supervisor at Denka Company Limited)
 Chih-Chun Chan (M.S., 2013; currently Associate Scientist in Oneness Biotech Co., Ltd)
 Liang-Yu Pang (M.S., 2014; Ph.D. at John Hopkins University; currently Consultant at Kearney)
 Shang-Yin Chiang (M.S., 2015; Ph.D. at NTU; currently Scientist at Aligent, Inc.)

Jocelyn F. Chen (M.S., 2015; currently Ph.D. student at Yale University)
 Hsiang-Rung Hsiao (M.S., 2016, Ph.D. student at Charité Universitätmedizin Berlin)
 Chi-Huan Ho (M.S., 2016; currently Assistant Manager at NAGASE (Taiwan) Co., Ltd.)
 Min-Chi Yang (M.S., 2017; Associate Researcher at Mount Sinai Health System)
 Chun-Chieh Liao (M.S., 2018; currently Programmer)
 Min-Yu Huang (M.S., 2018)
 Tzu-Yu Huang (M.S., 2019; currently Associate Researcher, PELL Bio-Med Technology Co)
 Hsin-Hsin Liu (M.S., 2019; currently Ph.D. student at Leiden University)
 Ruei-Liang Yan (M.S., 2020; currently Ph.D. student at University of Texas MD Anderson Cancer Center)
 Yu-Tung Lin (M.S., 2020; currently Ph.D. student at Rice University)
 Ru-In Jian (M.S., 2021; currently R.A. at Academia Sinica)
 Yi-Hsuan Wang (M.S., 2021; currently Associate Researcher at biotech company)
 Shu-Jou Chan (M.S., 2021; currently Associate Researcher at biotech company)
 Li-Heng Liu (M.S., 2021)
 An-Chi Wei (M.S., 2022)
 Chiu-Lin Luan (M.S., 2022; currently Programmer in Cathy Healthcare Management)
 Chun-Ying Kung (M.S., 2023; currently military training)

Present:

Chi-Hao Chiu
 Shin-Rong Lee
 Kun-Hao Chang
 Yo-Hsuan Chang
 Yi-Hsin Chen
 Chia-Jen Lee

RESEARCH ASSISTANTS

Past:

Yi-Hsien Su (currently Research Fellow at ICOB, Academia Sinica)
 Li-Chiou Rachel Chuang (currently Group Leader at DiaCarta, Inc.)
 Tzu-Nan Huang (currently Postdoctoral Fellow at IMB, Academia Sinica)
 Chun-Chieh Chen
 Pei-Ru Lu (Currently Assistant Professor at New York University)
 Hsiao-Chien Tsai
 Yuan-Ping Huang (Ph.D. at Columbia University; currently Principal at Applied Ventures LLC)
 Meng-Jung Chiang (Ph.D. at John Hopkins University; currently Biologics CMC Reviewer at U.S. FDA)
 Yu-Han Chen (Ph.D. at UC Irvine; current Scientist II at NovoGlia)
 Hsiang-Hao Chuang (Ph.D. at Yang Ming University; currently Postdoctoral fellow at Kaoshiung Medical University)
 Eric Liang (Ph.D. at University of Oxford; currently Postdoctoral fellow at University of Oxford)
 Hsin-Jung Chou (Ph.D. at University of Massachusetts, currently Scientist at Astellas Gene Therapies)
 Yen Pei Tan (Ph.D. at Hong Kong University; Currently Postdoctoral fellow at Hong Kong University)
 Cheng-Hsin Liu (Ph.D. at Baylor College of Medicine; currently Postdoctoral fellow at UCLA)

Hsuan-An Chen (Ph.D. student at Memorial Sloan Kettering Cancer Center; currently Postdoctoral fellow at Rockefeller University)
 Chun-Min Chen (currently at United Biopharma, Inc.)
 Wen-Hsin Li (currently Clinical Laboratory Technologist, National Taiwan University Hospital)

Present:

Ying-Ying Hsu

LIST OF ALL PUBLICATIONS (Total citation: 20363, H index: 50 by Google Scholar)

- 1) **Chen, R.-H.**, V.M. Maher, and J.J. McCormick (1990) Effect of excision repair by diploid human fibroblasts on the kinds and locations of mutations induced by (\pm)-7 β , 8 α -dihydroxy-9 α , 10 α -epoxy-7, 8, 9, 10 -tetrahydrobenzo[a]pyrene in the coding region of the HPRT gene. Proc. Natl. Acad. Sci. (USA), 87: 8680-8685.
- 2) Yang, J.-L., **R.-H. Chen**, V.M. Maher, and J.J. McCormick (1991) Kinds and locations of mutations induced by (\pm)-7 β , 8 α -dihydroxy-9 α , 10 α -epoxy-7, 8, 9, 10 -tetrahydrobenzo[a]pyrene in the coding region of the hypoxanthine (guanine) phosphoribosyltransferase gene in diploid human fibroblasts. Carcinogenesis, 12: 71-75.
- 3) McGregor, W.G., **R.-H. Chen**, L. Lukash, V.M. Maher, and J.J. McCormick (1991) Cell cycle-dependent strand bias for UV-induced mutations in the transcribed strand of excision repair-proficient human fibroblasts but not in repair-deficient cells. Mol. Cell. Biol., 11: 1927-1934.
- 4) **Chen, R.-H.**, V.M. Maher, and J.J. McCormick (1991) Lack of a cell cycle-dependent strand bias for mutations induced in the HPRT gene by (\pm)-7 β , 8 α -dihydroxy-9 α , 10 α -epoxy-7, 8, 9, 10 - tetrahydrobenzo[a] pyrene in excision repair-deficient human cells. Cancer Res., 51: 2587-2592.
- 5) Maher, V.M., J.-L Yang, **R.-H. Chen**, W.G. McGregor, L. Lukash, J.M. Scheid, D.S. Reinhold, and J.J. McCormick (1991) Use of PCR amplification of cDNA to study mechanisms of human cell mutagenesis and malignant transformation. Environ. and Molec. Mutagen, 18: 239-244.
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- 7) **Chen, R.-H.**, R. Ebner, and R. Derynck (1993) Inactivation of the type II receptor reveals two receptor pathways for the diverse TGF- β activities. Science, 260: 1335-1338.
- 8) Ebner, R., **R.-H. Chen**, L. Shum, S. Lawler, T. F. Zioncheck, A. Lee, A. R. Lopez, and R. Derynck (1993) Cloning of a type I TGF- β receptor and its effect on TGF- β binding to the type II receptor. Science, 260: 1344-1348.
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- 10) **Chen, R.-H.**, and R. Derynck (1994) Homomeric interactions between type II transforming growth factor- β receptors. J. Biol. Chem., 269: 22868-22874.

- 11) **Chen, R.-H.**, H. L. Moses, E. M. Maruoka, R. Derynck and M. Kawabata (1995) Phosphorylation-dependent interaction of the cytoplasmic domains of the type I and type II transforming growth factor- β receptors. *J. Biol. Chem.*, 270: 12235-12241.
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- 15) **Chen, R.-H.***, and T.-Y. Chang (1997) Involvement of caspase family proteases in transforming growth factor- β -induced apoptosis. *Cell Growth & Diff.*, 8: 821-827.
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42) Chang, C.-C., N.-T. Naik, Y.-S. Huang, J.-C. Jeng, P.-H. Liao, H.-Y. Kuo, C.-C. Ho, Y.-L. Hsieh, C.-H. Lin, N.-J. Huang, N. M. Nandita, C. C. Kung, S.-Y. Lin, **R.-H. Chen**, K.-S. Chang, T.-H. Huang, and H.-M. Shih. (2011) Structural and functional roles of Daxx SIM phosphorylation in SUMO paralog-selective binding and apoptosis modulation. *Mol. Cell*, 42: 62-74.

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 - **Featured in News and Views (*Nature Rev Mol Cell Biol*)**
 - **Featured in *Global Medical Discovery***
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- 62) Jiang, H.-C., J.-M. Hsu, C.-P. Yen, C.-C. Chao, **R.-H. Chen**, and C.-L. Pan. (2015) Neural activity and CaMKII protect mitochondria from fragmentation in aging *Caenorhabditis elegans* neurons. *Proc. Natl. Acad. Sci. (USA)*, 112: 8768-8773.
- 63) Liu, C.-C., Y.-C. Lin, Y.-H. Chen, C.-M. Chen, L.-Y. Pang, H.-A. Chen, P.-R. Wu, M.-Y. Lin, S.-T. Jiang, T.-F. Tsai, and **R.-H. Chen***. (2016) Cul3-KLHL20 ubiquitin ligase governs the turnover of ULK1 and VPS34 complexes to control autophagy termination. *Mol Cell*, 61: 84-97.
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- 70) Wang, Y.-T. and **R.-H. Chen***. (2017) PML degradation fosters an immunosuppressive and pro-metastatic tumor microenvironment. *Mol Cell Oncol.*, 4: e1364212 (invited Author's View).
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- 74) Chen, H.-Y., Y.-D. Lang, H.-N. Lin, Y.-R. Liu, C.-C. Liao, A.W. Nana, Y. Yen, and **R.-H. Chen***. (2019) miR-103/107 prolong Wnt/ β -catenin signaling and colorectal cancer stemness by targeting Axin2. *Sci Rep.*, 9: 9687.
- 75) Lee, Y.-R., M. Chen, J. D. Lee, J. Zhang, S.-Y. Lin, T.-M. Fu, H. Chen, T. Ishikawa, S.-Y. Chiang, J. Katon, Y. Zhang, Y. V. Shulga, A. C. Bester, J. Fung, E. Monteleone, L. Wan, C. Shen, C.-H. Hsu, A. Papa, J. G. Clohessy, J. Teruya-Feldstein, S. Jain, H. Wu, L. Matesic, **R.-H. Chen**, W. Wei, and P. P. Pandolfi*. (2019) Reactivation of the PTEN tumor suppressor for cancer

treatment through inhibition of a MYC-WWP1 inhibitory pathway. *Science* 364(6441). doi: 10.1126/science.aau0159.

- **Research Article**
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Book Chapter

Chen, R.-H.* Cullin 3 and its role in tumorigenesis. In: Cullin-RING Ligases and Protein Neddylation (Sun, Y, Wei, W, Jin, J. eds) Springer Nature Singapore Pte Ltd. 2020.

PATENT

陳瑞華、陳飛濤、黃敏瑜 經調節泛蛋白化之癌症治療及/或預防 中華民國專利發明第 I718526 號 2021-2039

Combined inhibition of IRE1 α pathway with BIKDD gene delivery as an anti-cancer strategy. US provisional application filed

Method for preventing or treating metabolic disorder, US provisional application filed