

## Curriculum Vitae

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### Present Position

Research Fellow and Professor  
Genomics Research Center  
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### Education & Positions

-Ph.D. training with Jerry Workman, The Pennsylvania State University, 01/1992- 08/1996  
-Postdoctoral Fellow (06/1997-10/2000) and Assistant Investigator (10/2000-03/2006), National Health Research Institutes, Taiwan,  
-Assistant Research Fellow (04/2006-07/2009), Associate Research Fellow (07/2009-07/2015) and Research Fellow (07/2015-present), Genomics Research Center, Academia Sinica, Taiwan  
-Adjunct Assistant Professor (08/2006-02/2010), Adjunct Associate Professor (02/2010-01/2016), and Adjunct Professor (02/2016-present), Institute of Molecular Medicine, College of Medicine, National Taiwan University, Taiwan

### Honors

-1<sup>st</sup> Prize, Departmental Research Poster Award (1/76), The Penn State University, 1995  
-1<sup>st</sup> NHRI Postdoctoral Fellowship Competition Award (3/40), 1998  
-Asia-Pacific International Molecular Biology Network (A-IMBN) Feature Report, 2008

- Academia Sinica Major Discovery, 2008
- Academia Sinica Career Development Award, 2009
- 4<sup>th</sup> TienTe Lee Biomedical Foundation Young Scientist Research Award, 2009
- Asia-Pacific International Molecular Biology Network (A-IMBN) Feature Report, 2010
- Best 5 Article in Cell Reports in 2012
- Academia Sinica Investigator Award, 2017

## Research Interest

My laboratory has been interested in Epigenetic Regulation orchestrated by DNA methylation and posttranslational modifications of histone proteins. In the past years, we studied important epigenetic regulators which control viral replication, tumor malignancy and embryonic development. The major contributions of Juan Lab include 1. Viral proteins inhibited host histone modifying enzyme activity and hijacked host chromatin assembly factor for viral replication (EMBO 2004, JBC 2009, Cell Res 2011, Oncogene 2012); 2. Histone demethylase RBP2 recognized specific DNA sequences (Nat Struc Mol Biol 2008, GRC major discovery, highlighted by Academia Sinica and A-IMBN) and promoted lung tumor malignancy depending on its enzymatic and DNA binding activities (Cancer Res 2013); 3. O-GlcNAc transferase (OGT) glycosylated and stabilized histone methyltransferase EZH2 for tumor suppressor gene silencing (PNAS 2014, GRC major discovery); 4. The acetylase N-a-acetyltransferase 10 protein (Naa10p) promoted lung tumorigenesis (J Clin Invest 2010, GRC major discovery, highlighted by Academia Sinica and A-IMBN) and genomic imprinting (Mol Cell, accepted) by facilitating DNA methyltransferase 1 function; 5. DNA demethylation enzyme TET1 suppressed tumor malignancy by activating tissue inhibitors of matrix metalloproteinases (Best 5 Article in Cell Reports 2012, highlighted by Cell and Cell Reports websites, GRC major discovery).

## Representative Publications

\*corresponding author or co-corresponding author

### [Role of N- \$\alpha\$ -acetyltransferase 10 protein in DNA methylation and embryonic development.](#)

Lee CC, Peng SH, Shen L, Lee CF, Du TH, Kang ML, Upadhyay AK, Cheng X, Xu GL, Yan YT, Zhang Y\* and **Juan LJ\***. *Mol Cell*. Accepted.

### [O-GlcNAcylation regulates EZH2 protein stability and function.](#)

Chu CS, Lo PW, Yeh YH, Hsu PH, Peng SH, Teng YC, Kang ML, Wong CH\* and **Juan LJ\***. *PNAS*. 2014 Jan 28;111(4):1355-60. Epub 2014 Jan 13.

### [Histone demethylase RBP2 promotes lung tumorigenesis and cancer metastasis.](#)

Teng YC, Lee CF, Li YS, Chen YR, Hsiao PW, Chan MY, Lin FM, Huang HD, Chen YT, Jeng YM, Hsu CH, Yan Q, Tsai MD and **Juan LJ\***. *Cancer Res*, 2013 Aug 1;73(15):4711-4721. Epub 2013 May 30.

[TET1 suppresses cancer invasion by activating the tissue inhibitors of metalloproteinases.](#)

Hsu CH, Peng KL, Kang ML, Chen YR, Yang YC, Tsai CH, Chu CS, Jeng YM, Chen YT, Lin FM, Huang HD, Lu YY, Teng YC, Lin ST, Lin RK, Tang FM, Lee SB, Hsu HM, Yu JC\*, Hsiao PW\*, **Juan LJ\***. *Cell Rep.* 2012 Sep 27;2(3):568-79. Epub 2012 Sep 20. (**Best 5 Article of Cell Reports in 2012**)

[hNaa10p contributes to tumorigenesis by facilitating DNMT1-mediated tumor suppressor gene silencing.](#)

Lee CF, Ou DS, Lee SB, Chang LH, Lin RK, Li YS, Upadhyay AK, Cheng X, Wang YC, Hsu HS, Hsiao M, Wu CW\*, **Juan LJ\***. *J Clin Invest.* 2010 Aug;120(8):2920-30. Epub 2010 Jul 1.

[The ARID domain of the H3K4 demethylase RBP2 binds to a DNA CCGCCC motif.](#)

Tu S, Teng YC, Yuan C, Wu YT, Chan MY, Cheng AN, Lin PH, **Juan LJ\***, Tsai MD\* *Nat Struct Mol Biol.* 2008 Apr;15(4):419-21. Epub 2008 Feb 12.

[HCMV IE2-mediated inhibition of HAT activity downregulates p53 function.](#)

Hsu CH, Chang MD, Tai KY, Yang YT, Wang PS, Chen CJ, Wang YH, Lee SC, Wu CW, **Juan LJ\***. *EMBO J.* 2004 Jun 2;23(11):2269-80. Epub 2004 May 13.

### **Talks since 2012 (\*Talks at International Meetings or abroad)**

11/2017, National United University, Miaoli, Taiwan ROC, Invited Speaker

\*09/2017, The Nucleosome: from factor binding and remodeling to cell signaling and disease, The Stowers Institute for Medical Research, Kansas City, USA, **Co-organizer, Session Chair** and Invited Speaker

\*06/2017, 24<sup>th</sup> Asia Pacific Cancer Conference, Seoul, South Korea, Invited Speaker

04/2017, University of Taipei, Taiwan ROC, Invited Speaker

\*03/2017, Academia Sinica-Osaka University Joint Conference, Taipei, Invited Speaker

\*06/2016, UMMS-Academia Sinica-NHRI Joint Symposium 2016, Academia Sinica, Invited Speaker

\*06/2016, The 35th Sapporo Cancer Seminar, Sapporo, Japan, Invited Speaker

\*05/2016, Epigenetics Mini-symposium, Institute of Biophysics, Chinese Academy of Sciences, Beijing, China, Invited Speaker

\*05/2016, School of Life Sciences, Peking University, Beijing, China, Invited by Dr. Hongkui Deng

\*05/2016, CSH-Asia meeting on Chromatin, Epigenetics and Transcription, Suzhou, China, Selective Speaker

11/2015, The Taiwan Society for Biochemistry and Molecular Biology Meeting, Tainan, Taiwan, Invited Talk

\*09/2015, The 40th Naito Conference on Epigenetics: From Histone Code to Therapeutic Strategy, Sapporo, Japan, Invited Speaker

- \*08/2015, 2015 Biomedical Research Symposium of National Health Research Institutes, Chunan, Taiwan, Invited Speaker
- \*06/2015, The 15th SCBA International Symposium, Session: Epigenetics and Chromatin, Academia Sinica, Taipei, Taiwan, **Session Co-organizer** and Speaker
- 06/2015, 2015 Mini-symposium on Epigenetics and Biomedicine, China Medical University, Taichung, Taiwan, **Co-organizer** and **Chair**
- \*10/2014, Mini-symposium on Transcription, Epigenetics and Chromatin, China Medical University, Taichung, Taiwan, **Co-organizer, Session Chair** and Speaker
- \*10/2014, The 15<sup>th</sup> IUBMB and 24<sup>th</sup> FAOBMB-TSBMB Conference, Academia Sinica, Taipei, Taiwan, **Session Organizer** and Invited Talk
- \*08/2014, The 9<sup>th</sup> Asian Epigenomics Meeting: Epigenetics in Development and Diseases, Singapore, Invited Talk
- 05/2014, **Keynote Speaker**, The 7th China Medical University & Asia University Joint Conference on Biotechnology, China Medical University, Taichung, Taiwan
- \*05/2014, CSH Asia Meeting: Epigenetics, Chromatin & Transcription, Suzhou, China, Selected Talk
- \*11/2013, The 8th Annual Conference of Asia Epigenome Alliance and 2nd Taipei Epigenetics and Chromatin Meeting, Academia Sinica, Taipei, Taiwan, Speaker and **Co-organizer**
- \*9/2013, Tokyo Metropolitan Institute of Medical Science, Tokyo, Japan, Invited Talk
- \*9/2013, The 86th Annual Meeting of the Japanese Biochemical Society, Yokohama, Japan, Invited Talk
- \*7/2013, Gordon Research Conference on Germinal Stem Cell Biology, The Chinese University of Hong Kong, Hong Kong, China, Selected Talk
- \*3/2013, Keystone Symposia, C8: Epigenetic Marks and Cancer Drugs, Eldorado Hotel & Spa, Santa Fe, New Mexico, USA, Selected Talk
- \*11/2012, The 8<sup>th</sup> 3R Symposium, Awaji Island, Japan, Selected Talk
- \*04/2012, CSH Asia Meeting: Epigenetics, Chromatin & Transcription, Suzhou, China, Selected Talk
- \*04/2012, The 7th Asian Epigenomics Meeting, Shanghai, China, Invited Talk

## **Professional Services**

### **International Meeting Organization**

- Member, International Scientific Committee (ISC), The Asian Conference on Transcription (ACT), 2002-2011
- Co-chair, International Scientific Committee (ISC), The 9<sup>th</sup> Asian Conference on Transcription (ACT IX), 2005
- Member, International Scientific Committee (ISC), The Asian Forum of Chromosome and Chromatin Biology, 2008-present
- Organizer, the 1st Taipei Epigenetics and Chromatin Meeting, Academia Sinica, Taipei, Taiwan, 2009

- Member, International Organization Committee, The Asia Epigenome Alliance, 2013-present
- Organizer, the 8th Annual Conference of Asia Epigenome Alliance and 2nd Taipei Epigenetics and Chromatin Meeting, Academia Sinica, Taipei, Taiwan, Nov 6 to 8, 2013
- Co-organizer and Session Chair, Mini-symposium on Transcription, Epigenetics and Chromatin, China Medical University, Taichung, Taiwan, Oct of 2014
- Session Organizer, The 15<sup>th</sup> IUBMB and 24<sup>th</sup> FAOBMB-TSBMB Conference, Academia Sinica, Taipei, Taiwan, Oct of 2014
- Co-organizer and Chair, 2015 Mini-symposium on Epigenetics and Biomedicine, China Medical University, Taichung, Taiwan, June 25, 2015
- Session Co-organizer, The 15th SCBA International Symposium, Session: Epigenetics and Chromatin, Academia Sinica, Taipei, Taiwan, June 26, 2015
- Co-organizer, Session Chair, The Nucleosome: from factor binding and remodeling to cell signaling and disease, The Stowers Institute for Medical Research, Kansas City, USA, Sep 23, 2017