

Curriculum Vitae

Jiayuh Lin, Ph.D.

Contact Information

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Education

B.S., Biology, FU-JEN Catholic University, Taipei, Taiwan

Ph.D., Genetics and Molecular Biology, University of Delaware, Thesis Advisor - Dr. Daniel T. Simmons

Post Graduate Education and Training

Research Assistant, Department of Biochemistry, Yang-Ming University, College of Medicine, Taipei, Taiwan

Post-doctoral research fellow, Department of Molecular Biology, Princeton University, Mentor – Dr. Arnold J. Levine

Employment History

Academic Appointments

1998-2004 Assistant Professor (Tenure Track) at the Division of Gynecologic Oncology, University of Michigan Comprehensive Cancer Center, Ann Arbor, MI.
1998-2004 Member, University of Michigan Comprehensive Cancer Center.
2000-2004 Member, Connective Tissue Oncology at the University of Michigan. Comprehensive Cancer Center.
2000-2005 Member, Center for Gene Therapy at the University of Michigan.
2000-2004 Graduate faculty member in Program in Biomedical Sciences at the University of Michigan.
2000-2005 Faculty member in Medical Scientists Training Program at the University of Michigan Health System.
2001-2004 Graduate Faculty in Cellular and Molecular Biology Graduate Program and Cancer Biology Training Program at the University of Michigan Health System.
2005-Present Associate Professor with Tenure, Department of Pediatrics, College of Medicine, The Ohio State University, Columbus, OH.
2005-Present Full Member, The Ohio State University Comprehensive Cancer Center.

2005-Present	Graduate Faculty, Integrated Biomedical Science, Graduate Program, The Ohio State University, Columbus, OH.
2005-Present	Graduate Faculty, Molecular, Cellular & Developmental Biology Graduate Program, The Ohio State University, Columbus, OH.
2005-Present	Graduate Faculty, Ohio State Biochemistry Graduate Program, The Ohio State University, Columbus, OH.
2010-Present	Faculty mentor, Biomedical Sciences Major, The Ohio State University.
2012-Present	Faculty member, Center for Advanced Functional Foods Research and Entrepreneurship, The Ohio State University, Columbus, OH.
2013-Present	Faculty member, Food Innovation Center, The Ohio State University.
2016	Professor with tenure, department of Pediatrics, College of Medicine, The Ohio State University.
2016-Present	Professor with tenure, Department of Biochemistry and Molecular Biology, School of Medicine, University of Maryland in Baltimore.
2016-Present	Full Member, Molecular and Structural Biology Program, University of Maryland Marlene and Stewart Greenebaum Comprehensive Cancer Center Baltimore, MD.
2016-Present	Graduate Faculty, Cancer Biology Track, Molecular Medicine Graduate Program, School of Medicine, University of Maryland, Baltimore, MD.

Professional Society Membership

1998-present	Full member, American Association for Cancer Research (AACR).
2013-2016	General member, Children's Oncology Group.
2014-2015	Full member, The American Society for Biochemistry and Molecular Biology.
2014-2015	Full member, The American Society for Cell Biology.

Honors And Awards

1990	Block fellowship through competitive funding at the University of Delaware.
2001	The best basic science award at the SGO Annual Meeting was selected to Dr. William Burke. Dr. Burke is an oncology fellow worked in Dr. Lin's laboratory.
2003	A RSDP/NICHD fellowship award was selected for Dr. Dana Gossett. Dr. Gossett is an oncology fellow worked in Dr. Lin's laboratory.
2005	An institutional NIH fellowship award was selected for Beng Huh, M.D. Dr. Huh is an oncology fellow worked in Dr. Lin's laboratory.
2009	Received an AACR travel award for one of Dr. Lin's post-doctoral fellows presented the abstract at the Sixth Annual AACR International Conference: Frontiers in Cancer Prevention Research in Houston, TX.
2010	Received an AACR top-rated abstract award at the AACR Annual Meeting in Washington D. C.
2010	Received an AACR travel award for one of Dr. Lin's post-doctoral fellows presented the abstract at the Sixth Annual AACR Colorectal Cancer: Biology to Therapy Meeting in Philadelphia, PA.
2015	Feature Editorial Academy (Editorial Board) in May issue of the International Journal of Oncology.
2016	Distinguish Alumni, FU-JEN Catholic University, Taipei, Taiwan

Clinical Activities

Not applicable.

Administrative Service

Institutional Service

- 1999-2004 Search Committee for the recruitment of Gynecologic Oncology fellows, University of Michigan.
- 2000-2003 Medical Scientists Training program mentor, University of Michigan.
- 2000-2003 Research Executive Committee in the Department of OB/GYN at the University of Michigan
- 2000-2004 Cancer Biology Training Program mentor, University of Michigan.
- 2005 Library oversight Committee, Department of Pediatrics, The Ohio State University.
- 2009-2010 Scholarship Oversight Committee Volunteer, Department of Pediatrics, The Ohio State University.
- 2010 Annual Research retreat planning Committee, Department of Pediatrics, The Ohio State University.
- 2015-2016 Faculty Search Committee, Department of Pediatrics, The Ohio State University.
- 2016-2018 Faculty Search Committee, Departments of Biochemistry and Molecular Biology and Pathology, University of Maryland, School of Medicine.
- 2018-2022 Faculty Council member, University of Maryland, School of Medicine.
- 2021-present Faculty APT Committee member for Departments of Biochemistry and Molecular Biology
- 2022 Faculty Search Committee Chair for recruiting new faculty members that are working on cancer research.
- 2023-present Departmental Research Retreat Committee Chair for Departments of Biochemistry and Molecular Biology
- 2023-present Departmental steering Committee for Departments of Biochemistry and Molecular Biology

Local, National, and International Service

International Service

- 2012-2015 Review of research grant of the Health and Health Services Research Fund of the Food and Health Bureau, Hong Kong SAR Government.
- 2012-present International Journal of Biochemistry and Molecular Biology (ISSN: 2152-4114): Senior Editorial Board.
- 2013 Review of a cancer research grant for the National Medical Research Council Ministry of Health, Singapore.
- 2014-Present International Journal of Oncology: Editorial Academy (Editorial Board).
- 2014-2018 BMC Cancer: Editorial Board.
- 2019-Present Molecular Carcinogenesis: Editorial Board.
- 2016-2021 Review of research grant of the Health and Health Services Research Fund of the Food and Health Bureau, Hong Kong SAR Government.

National Service

- 2005 WISC grants reviewer, American Association for the Advancement of Science, Washington DC.
- 2005-2010 The Congressionally Directed Medical Research Programs (CDMRP) Breast Cancer Research Program, Review Committee (Clinical and Experimental Therapeutics # 2 and # 4, and TRN1 panels).
- 2005-2008 External Consulting and Advisory Team Member, Global Clinical Development for anti-cancer drugs, Global Health Sector, SRA, International, Inc., Fairfax, VA
- 2009-2010 NIH Special Emphasis Panel/Scientific Review Group 2009/10 ZRG1 OTC-K.
- 2013 National Cancer Institute Special Emphasis Panel; ZCA1 SRLB-J (O1) S.
- 2013-2015 Pancreatic Cancer Action Network-AACR Research Grants Scientific Review Committee.
- 2013-2016 American Journal of Cancer Research (ISSN: 2156-6976): Senior Editorial Board.
- 2015-2016 Pennsylvania Department of Health: Serve as a final performance external reviewer of a funded cancer research grant.
- 2016 National Cancer Institute Special Emphasis Panel (SEP #5) for NCI Omnibus R21 and NCI Omnibus R03 grant reviews.
- 2016 Invited by National Institute of General Medical Sciences, special panel to review Support of Competitive Research (SCORE) NIH grant applications.
- 2017-2022 Cancer Drug Development & Therapeutics (CDDT) study section to review NIH applications from small business.
- 2021 Swiss Cancer Research foundation & Swiss Cancer League grant reviewer.
- 2023 National Cancer Institute Special Emphasis Panel for NCI Omnibus R21 and NCI Omnibus R03 grant reviews.

2000-2016 Ad hoc reviewer for the following peer-reviewed journals:

Molecular and Cellular Biology,
 Cancer Research,
 Clinical Cancer Research,
 Molecular Cancer Research,
 Oncogene,
 Neoplasia,
 Gene,
 Gene and Cancer,
 Cancer,
 BMC Cancer,
 Cancers,
 Molecular Cancer,
 FEBS Letters,
 European Journal of Cancer,
 British Journal of Cancer,
 Experimental Cell Research,
 Cell Death and Differentiation,
 Cancer Biology & Therapy,
 Molecular Pharmacology,
 The American Journal of Pathology,

Journal of Medicinal Chemistry,
Molecular Carcinogenesis

Editor:

Molecular Carcinogenesis
International J of Oncology

Local Service

Scientific judges for poster presentations

2005-2013 The Ohio State University Medical Center Annual Scientific Retreat.
2006-2007 The Ohio State University Comprehensive Cancer Center Annual Scientific Retreat.
2010-2015 The Research Institute at Nationwide Children's Hospital, Columbus OH.
2013 IGP Symposium, The Ohio State University graduate Programs.
2013 OSBP graduate students recruitment and interviews.
2014 Denman Undergraduate Research Forum, The Ohio State University.
2018 Graduate student posters, University of Maryland, School of Medicine

Teaching Service

High School Student Teaching

2006 Mentor, Summer Research for Victor Huang
2007 Mentor, Summer Research for Brian Wu (Currently in graduate school)

5-10 contact hours per week

Undergraduate Student Teaching

1987-1990 Taught undergraduate students in Biology laboratory for 5 semesters. University of Delaware.

Undergraduate students-Lin Laboratory, University of Michigan (Dr. Lin as the mentor): 5-10 contact hours per week

1998-1999 Rupali Patel (Undergraduate Research Opportunities Program: UROP): Became a graduate student at the University of Michigan after did research in my lab
1999-2000 Andrea O. Sethi (UROP): Became a graduate student at the University of Michigan after did research in my lab
2000-2001 Kori Rothman (Biology 300)
2000-2001 Amy Ko (UROP)
2001-2002 Wei Gu (UROP)
2002-2003 Jessica Ho (UROP)
2002-2003 Stefanie Stachura (UROP)
2003-2004 Megan Bradley (UROP): awarded University of Michigan competitive summer research fellowship.

Undergraduate students-Lin Laboratory, The Ohio State University (Dr. Lin as the mentor): 5-10 contact hours per week

2005-2006 Christina Chan (Currently a medical doctor)
2005-2006 Abby Loy

2006	Jennifer Dan
2007	Sarah Jones
2007	Michelle Tanzil
2008	Stephanie Deangelis (Currently a medical doctor)
2008	Wenting Jiang
2008-2009	Lauren Friedman (Currently a medical doctor)
2010-2013	David Jou (Currently in medical school)
2011-2012	Tyler Krause
2012-2013	Angela Zhang (Currently in graduate school in Columbia University)
2013-2014	Kevin X Rui
2015-2016	Ruohan Wu

Pharmacy Student Teaching

Molecular and Cellular Biology course (College of Pharmacy), The Ohio State University, one lecture to Pharmacy students (around 60 students).

Graduate Student Teaching

1. Cancer Biology (Graduate course 553, Department of Microbiology and Immunology), University of Michigan.
2. Cellular and Molecular Biology (CMB) Graduate Program student seminar/faculty talk (CMB850)- Fall Term, University of Michigan.
3. Tissue, Cellular and Molecular Basis of Disease (Department of Pathology 581)-Winter Term for graduate students, University of Michigan.
4. Molecular, Cellular & Developmental Biology Graduate Program, The Ohio State University, graduate student seminar/faculty talk (two lectures to 15-20 graduate students)
5. Molecular, Cellular & Developmental Biology Graduate Program, The Ohio State University, graduate student seminars as faculty instructor: 2 hours (Around 30 graduate students)
6. Ohio State Biochemistry Graduate Program, The Ohio State University, graduate student seminar/faculty talk (two lectures to 15-20 graduate students)
7. Integrated Biomedical Science, The Ohio State University, IBGP 8510 and other courses (four lectures to 20-25 graduate students)
8. Biochemistry and Molecular Biology department, University of Maryland, School of Medicine (Molecular biology techniques)
9. Medical Student teaching, UMSOM (2017-present)

Graduate Student-Doctoral Committees, University of Michigan

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| 2001 | Heather O'Hagan, Ph.D student, Cellular and Molecular Biology Graduate Program, University of Michigan. |
| 2004 | Brandi Thompson, Ph.D. student, Graduate Program in Biomedical Sciences, University of Michigan. |

Graduate Student-Doctoral Committees, The Ohio State University

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| 2005 | Kates Sasser, Ph.D student, Integrated Biomedical Science Graduate Program, (Ph.D. Thesis Committee). |
| 2005 | Gulsah Yaman, Ph.D student, Department of Chemistry (Ph.D. Candidacy Committee). |
| 2006 | Yu-Yu Liu, Ph.D student, Ohio State Biochemistry Program (Ph.D. Thesis Committee). |
| 2006 | Georgia Triantafillou, Ph.D student, Integrated Biomedical Science Graduate Program (Advisory Committee). |

- 2007 Baidehi Maiti, Ph.D student, Integrated Biomedical Science Graduate Program (Ph.D. Thesis Committee).
- 2007 Pamela Wenzel, Ph.D student, Department of Molecular Genetics (Graduate Faculty Representative).
- 2008 Stacey Fossey, Ph.D student, Department of Veterinary Biosciences, (Ph.D. Thesis Committee).
- 2009 Vandana Kumari, Ph.D student, College of Pharmacy, (Ph.D. Thesis Committee).
- 2010 Courtney Nicholas, Ph.D student, MCDB, (Ph.D. Thesis Committee).
- 2011-2013 Wenying Yu, Ph.D student, College of Pharmacy, (Ph.D. Thesis Committee).
- 2013-2016 Jennifer Yang, Ph.D. student, IBGP, (Ph.D. Thesis Committee).
- 2014 Punit Upadhyaya, Ph.D. student, Department of Chemistry and Biochemistry (Ph.D. Thesis defense Committee).
- 2014-2016 Guqin Shi, Ph.D student, College of Pharmacy, (Ph.D. Thesis Committee).
- 2015-2016 Hannah Komar, Ph.D student, BSGP program (Ph.D. Thesis Committee).

Graduate Student-Doctoral Committees, University of Maryland School of Medicine

- 2019-2021 Suruchi Shrestha
- 2021-2022 McKayla Mickle
- 2021-present Xi Chen

Graduate Students-Lin Laboratory, University of Michigan: 8-16 contact hours per week

- 1997 Jennifer Changery, MS student, School of Public health, University of Michigan.
- 2003 Hsin-Jen Tsai, Ph.D. student, School of Public Health, University of Michigan.
- 2004 Aasia, Rehman, Ph.D. student, Graduate Program in Biomedical Sciences, University of Michigan.

Graduate Students-Lin Laboratory rotation, The Ohio State University: 5-10 contact hours per week

- 2005 Kristy Arnoczky, Ph.D student, Integrated Biomedical Science Graduate Program, The Ohio State University.
- 2005 Jessica Brown, Ph.D student, Ohio State Biochemistry Program, The Ohio State University.
- 2005 Joshua Oaks, Ph.D student, Integrated Biomedical Science Graduate Program, OSU.
- 2005 Julie Wallace, Ph.D student, MCDB, The Ohio State University.
- 2005 Jennifer Kohout, Ph.D student, Integrated Biomedical Science Graduate Program, The Ohio State University.
- 2006 Brian Hutzen. Ph.D student, MCDB, The Ohio State University.
- 2006 Amanda Clagget, Ohio State Biochemistry Program, The Ohio State University.
- 2006 Jacquie Lieblein, Ph.D student, Ohio State Biochemistry Program, The Ohio State University.
- 2006 Georgia Triantafillou, Ph.D student, Integrated Biomedical Science Graduate Program, The Ohio State University.
- 2007 Sarah Ball. Ph.D student, MCDB, The Ohio State University.
- 2007 Will Williams, Ph.D student, IBGP, The Ohio State University.
- 2011 Emily McWilliams, Ph.D student, IBGP, The Ohio State University.
- 2014 Popova Liumila. Ph.D student, MCDB, The Ohio State University.

Graduate Students-Lin Laboratory rotation, University of Maryland School of Medicine:

- 2017 Verna Van

2022 Sudeep Khacka
2024 Taylor Bopp

Graduate Students-Thesis Advisor (Dr. Lin as the thesis advisor): 8-16 contact hours per week

2004 Ling Cen, Ph.D student, Ohio State Biochemistry Program, Ohio State University (Graduated in 2007): working at the Mayo Clinics, MN as a staff member.
2006 Jacquie Lieblein, M.S. student, Ohio State Biochemistry Program, The Ohio State University (Graduated in 2008): became a Ph.D. student at the Ohio State Univ.
2006 Matthew Sobo, M.S. student, MCDB, The Ohio State University (Graduated in 2010).
2008 Sarah Ball, Ph.D student, MCDB, The Ohio State University (Graduated in 2011): teaching position at The Ohio State University.

International graduate Students-Ph.D. Thesis (Dr. Lin as the thesis co-advisor): 8-16 contact hours per week

2016-2022 Chengguang Zhao, Ph.D. student, Nanjing University of Science and Technology, China.
2015-2016 Jilai Tian Ph.D. graduate student, Southeast University, China.
2019-2020 Lehe Yang, M.D., graduate student, Wenzhou Medical School, China

Medical Student- Lin Laboratory, University of Maryland School of Medicine (Dr. Lin as the mentor):

2019, 2021 Tiffany Wang

International graduate Students-Ph.D. Thesis, University of Maryland School of Medicine (Dr. Lin as the thesis co-advisor):

2019-2020 Lehe Yang

Resident and Fellow Teaching

1. Medical doctor Fellows- Lin Laboratory, University of Michigan (Dr. Lin as the mentor): 8-16 contact hours per week

1999-2000 Melinda Huang, M.D. (Currently is a faculty member/physician in another University/hospital)
2000-2001 William Burke, M.D. (Currently is a faculty member/physician in another University/hospital)
2001-2002 Thomas Reid, M.D. (Currently is a faculty member/physician in another University/hospital)
2002-2003 Dana Gossett, M.D. (Currently is a faculty member/physician in another University/hospital)

2. House Officer course (Department of OB/GYN), University of Michigan.

3. Medical doctor Fellows- Lin Laboratory, The Ohio State University (Dr. Lin as the thesis mentor): 8-16 contact hours per week

2005-2007 Beng Huh, M.D. (Currently is a faculty member/physician in another University/hospital)

2006-2008 Jason Canner, M.D. (Currently is a faculty member/physician in another University/hospital)
 2009-2010 Grace Ominoe, M.D. (Currently is a physician in another hospital)
 2010-2011 Susan Reed, M.D. (Currently is a faculty member/physician at the Ohio State University/Nationwide Children's Hospital)

Post-Graduate Teaching

Post-doctoral Fellows- Lin Laboratory, University of Michigan (Dr. Lin as the mentor): 8-16 contact hours per week

1998-1999 Yin Jin, M.D.
 1999-2004 Xiaohong Jin, M.D.
 2001-2004 Hui Song, M.D., Ph.D.
 2001-2004 Huaijing Tang, M.D.

Post-doctoral Fellows- Lin Laboratory, The Ohio State University (Dr. Lin as the mentor): 8-16 contact hours per week

2005-2006 Chun-Liang Chen, Ph.D. (Currently is a faculty member in U of Texas)
 2007 Ling Cen, Ph.D.
 2008 ChangChing Wei, M.D. (Currently is a faculty member in another University in Taiwan)
 2008-2011 Li Lin, M.D., Ph.D. (Currently is a faculty member in another University in China)
 2009-2011 Yan Liu, Ph.D.
 2009-2011 Aiguo Liu, M.D. (Currently is a faculty member in another University in China)
 2013 Annie Yang, M.D., Ph.D.
 2011-2016 Hui Xiao, M.D., Ph.D.
 2013-2016 Xiaojuan Wu, M.D., Ph.D.
 2015-2016 Cao Yang, M.D., Ph.D.
 2015-2016 Nicki Lai, Ph.D.

Post-doctoral Fellows- Lin Laboratory, University of Maryland School of Medicine (Dr. Lin as the mentor):

2016-2018 Xian Chen, Ph.D.
 2016-2018 Shengling Fu, M.D.
 2016-2018 Jia Wei, M.D., Ph.D.
 2017-2018 Ling Ma, M.D.
 2018-2020 Ruijie Zhang, M.D.
 2019-2022 Li Pan, M.D., Ph.D.
 2023-present Changyou Shi, Ph.D.

Patents, Inventions and Copyrights

1993 U.S. Patent: Bristol-Myers Squibb Pharmaceutical Company: Test peptides interact with a mdm2 binding domain on p53 as potential treatments for cancer patients expressing high levels of mdm2.
 2014 US Patent: Transcription Factor Inhibitors and Related Compositions, Formulations and Methods (LLL12 and its analogs).
 2014 US Patent filed: Novel IL-6/GP130 small molecule inhibitors.

Publications

Peer-reviewed journal articles

1. Lee, Y. -H. W., **J. Lin**, C. C. Pao, and S. J. Lo. Enhanced production of hepatitis B virus surface antigen in mouse C127 cell on a bovine papillomavirus-metallothionein vector. *Biochemistry International*. 16:101-109 (1988).
2. **Lin, J.**, and D. T. Simmons. Transformation by simian virus 40 does not involve the mutational activation of p53 to an oncogenic form. *Virology* 176:302-305 (1990).
3. **Lin, J.**, and D. T. Simmons. Stable T-p53 complexes are not required for replication of simian virus 40 in culture or for enhanced phosphorylation of T antigen and p53. *J. of Virology* 65:2066-2072 (1991).
4. **Lin, J.**, and D. T. Simmons. The ability of large T antigen to complex with p53 is necessary for the increased life span and partial transformation of human cells by SV40. *J. of Virology* 65:6447-6453 (1991).
5. **Lin, J.**, Chen, J., Elenbaas, B., and A. J. Levine. Several hydrophobic amino acids in the p53 N-terminal domain are required for transcriptional activation, binding to mdm-2 and the Adenovirus 5 E1B 55kd protein. *Genes & Development* 8:1235- 1246 (1994).
6. **Lin, J.**, Wu, X., Chen, J., Chang, A., and A. J. Levine. The functions of the p53 protein in growth regulation and tumor suppression. *Cold Spring Harbor Symp. Quan. Biol.* 59:215-223 (1994).
7. Sabbatini, P., **Lin, J.**, Levine, A. J., and E. White. Essential role for p53-mediated transcription in E1A-induced apoptosis. *Genes & Development* 9:2184-2192 (1995).
8. **Lin, J.**, Teresky, A., and A. J. Levine. Two critical hydrophobic amino acids in the N-terminal domain of the p53 protein are required for the gain of function phenotypes of human p53 mutants. *Oncogene* 10:2387 (1995).
9. Chen, J., **Lin, J.**, and A. J. Levine. The ability of mdm2 to complex with p53 is required for the inhibition of transcription activation and suppression activities of p53. *Molecular Medicine* 1:142-152 (1995).
10. Levine AJ, Wu MC, Chang A, Silver A, Attiyeh EF, **Lin J**, Epstein CB. The spectrum of mutations at the p53 locus. Evidence for tissue-specific mutagenesis, selection of mutant alleles, and a "gain of function" phenotype. *Ann NY Acad Sci.* 768:111-28 (1995).
11. **Lin, J.**, Reichner, C., Wu, X., and A. J. Levine. Analysis of wild-type and mutant p21^{WAF1} gene activities. *Mol. Cell. Biol.* 16:1786-1793 (1996).
12. Chen, J., Wu, X., **Lin, J.**, and A. J. Levine. Mdm2 inhibits the G1 growth arrest and apoptosis functions of the p53 tumor suppressor protein. *Mol. Cell. Biol.* 16:2445-2452 (1996).
13. Fisher, G. J., Talwar, H., **Lin, J.**, et al., and Voorhees, J. J. Retinoic acid Inhibits of c-Jun Protein by Ultraviolet Radiation that Occurs Subsequent to Activation of Mitogen-activated Protein Kinase Pathways in Human Skin in vivo. *J. of Clinical Investigation* 101:1432-1440 (1998).
14. Fisher GJ, Talwar, H, **Lin J.**, Voorhees JJ: Molecular mechanisms of photoaging in human skin in vivo and their prevention by all-trans retinoic acid. *Photochemistry and Photobiology* 69:154-157 (1999).
15. Page, C., Lin, H., Jin, Y., Castle, V., Nunez, G., Huang, M., and **J. Lin**. Overexpression of Akt/AKT can modulate chemotherapy-induced apoptosis. *Anticancer Research* 20:407-416 (2000).

16. Page, C., Huang, M., Jin, X., Lilja, J., Reynolds, K., and **J. Lin**. Elevated phosphorylation of AKT and Stat3 in prostate, breast, and cervical cancer cells. *International J. Oncology* 17:23-28 (2000).
17. Huang M., Page, C., Reynolds, K. R., and **J. Lin**. Constitutive activation Stat3 oncogene product in ovarian carcinoma cells. *Gynecologic Oncology* 79:67-73 (2000).
18. **Lin, J.**, Jin, X., Page, C., Sondak, V., Jiang, G., and Reynolds, K. A modified p53 overcomes mdm2-mediated oncogenic transformation. *Cancer Research* 60:5895-5901 (2000).
19. Chung JH, Kang S, Varani J, **Lin J**, Fisher GJ, Voorhees JJ: Decreased ERK and Increased Stress-Activated MAP Kinase Activities in Aged Human Skin *in vivo*. *J Invest Dermatol.* (**Impact factor: 6.270**) 115:177-182 (2000).
20. Pochampally, R., Chen, L., Luftig, R., **Lin, J.**, and J Chen. Temperature-sensitive mutants of p53 homologs. *Biochemical Biophysics Research Communications.* 279:1001-1010 (2000).
21. Lo, P., Chen, J., Tang, P., **Lin, J.**, Lin, C., Su, L., Wu, C., Chen, T., Yang, Y., and Wang F. Identification of a mouse thiamine transporter gene as a direct transcriptional target for p53. *J. Biol. Chem.* 276:37186-37193 (2001).
22. **Lin, J.**, Page, C., Jin, X., Sethi, A., Patel, R., and Nunez, G. The apoptotic activity of pro- apoptotic genes in cancer cells. *Anticancer Research* 21:831-840 (2001).
23. Lilja JF, Wu D, Reynolds RK, **Lin J**. Growth suppression activity of the PTEN tumor suppressor gene in human endometrial cancer cells. *Anticancer Research* 21:1969-74, (2001).
24. Burke, MW., Jin, X., Lin, H., Huang, M., R. Liu, Y. R. K. Reynolds, and **J. Lin**. Inhibition of constitutively active Stat3 in ovarian and breast cancer cells. *Oncogene* 20:7925-7934 (2001).
25. **Lin, J.**, Jin X., Rothman K., Lin H., Burke WM. Inhibition of Stat3 by p53 tumor suppressor in breast cancer cells. *Cancer Research* 62:376-380 (2002).
26. Lu W., **Lin J.**, Chen J. Expression of p14^{ARF} overcomes tumor resistance to p53. *Cancer Research* 62: 1305-1310 (2002).
27. Jin X, Rothman K, Burke WM., **Lin J**. Resistance to p53-mediated growth suppression in human ovarian cancer cells retain endogenous wild-type p53. *Anticancer Research* 22:659-664 (2002).
28. **Lin, J.**, Tang, T., Jin X., J. Hsieh. P53 regulates Stat3 phosphorylation and DNA binding activity in human prostate cancer cells expressing constitutively active Stat3. *Oncogene* 21: 3082-3088 (2002).
29. Song H., Sondak V., Barber D., **Lin J**. Inhibition of JAK2 pathway by cisplatin. *International J. Oncology* 24:1017-1026 (2004).
30. Tang H., Sondak, V., and **Lin, J**. A Modified p53 Enhances Apoptosis in Sarcoma Cell Lines Mediated by Doxorubicin. *British Journal of Cancer* 90:1285-92 (2004).
31. Song H., Ethier SP., Dziubinski M., and **Lin J**. Stat3 modulates heat shock 27kD protein expression in breast epithelial cells. *Biochemical Biophysics Research Communications* 314:143-150 (2004).
32. Reid T., Jin X., Song H., Tang H., Reynolds R. K., and **Lin, J**. Modulation of JAK2 pathway by p53. *Biochemical Biophysics Research Communications* 321:441-447 (2004).
33. Song H, Jin X., and **Lin J**. Stat3 up-regulates MEK5 expression in human breast cancer cells. *Oncogene* 23:8301-8309 (2004).
34. Jin X., Gossett D., Wang S., Yang D., Reynolds R. K., and **Lin, J**. Inhibition of AKT pathway in endometrial cancer cells harboring PTEN mutation by an AKT small molecular inhibitor. *British Journal of Cancer* 91:1808-1812 (2004).
35. Gossett D., Bradly, M., Jin X., and **Lin J**. 17-Allylamino-17-Demethoxygeldanamycin and 17-NN-Dimethyl Ethylene Diamine-Geldanamycin have cytotoxic activity against multiple gynecologic cancer cell types. *Gynecologic Oncology* 96:381-388 (2005).
36. Raja S., Kohout J., Beer D., **Lin J**, Watkins SC., Robbins PD., Billiar TR., and S. J. Hughes. Altered Trafficking of Fas and Subsequent Resistance to Fas-Mediated Apoptosis Occurs by a Wild-Type p53 Independent Mechanism In Esophageal Adenocarcinoma. *Journal of Surgery*

- Research** 123:302-311 (2005).
37. Song H., Wang R., Wang S., and **Lin J.** A small molecule inhibitor discovered through virtual database screening inhibits Stat3 oncogenic function in breast cancer cells. **Proc Natl Acad Sci USA** 102:4700-4705 (2005).
 38. Hsieh F., Cheng G., and **Lin J.** Evaluation of potential Stat3-regulated genes in human breast cancer. **Biochemical Biophysics Research Communications** 335:292-299 (2005).
 39. Lin H., Hsieh F., Song H., and **Lin J.** Elevated phosphorylation and activation of PDK-1/AKT pathway in human breast cancer. **British Journal of Cancer** 93:1372-81 (2005).
 40. Tang H., Jin X., Wang S., Yang D., Cao Y., Chen J., Gossett, D., and **Lin, J.** Inhibition of AKT pathway in ovarian cancer cells by a small molecular compound. **Gynecologic Oncology** 100:308-317 (2006).
 41. Chen C., Hsieh F., and **Lin J.** Systemic evaluation of total Stat3 and Stat3 tyrosine phosphorylation in normal human tissues. **Exp Mol Pathology** 80:295-305 (2006).
 42. Chen C., Hsieh F., Lieblein, JC., Brown J., Chan C., Wallace J., Cheng G., Hall B., and **Lin J.** Stat3 activation in human endometrial and cervical cancers. **British Journal of Cancer** 96:591-599 (2007).
 43. Cen L., Arnoczky K., Hsieh F., Lin H., Qualman S. J., and **Lin J.** Phosphorylation profile of protein tyrosine kinases in human Rhabdomyosarcomas. **Modern Pathology**. 20:936-946 (2007).
 44. Chen C., Loy A., Cen L., Chan C., Hsieh F., Gong Cheng, Wu B., Qualman SJ, Kunisada K., Yamauchi-Takahara K., and **Lin J.** Signal transducer and activator of transcription 3 is involved in cell growth and survival of human rhabdomyosarcoma and osteosarcoma cells. **BMC Cancer**. 7:111 (2007).
 45. Cen L., Lin H., Chen C., Qualman S. J., and **Lin J.** Inhibition of PDK-1/AKT pathway by a PDK-1 small molecular inhibitor in rhabdomyosarcomas cells. **British Journal of Cancer** 97:785-791 (2007).
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148. Bazedoxifene inhibits cell viability, colony-forming activity, and cell migration in human non-small cell lung cancer cells and improves the treatment efficacy of paclitaxel and gemcitabine. *The Clinical Respiratory Journal.* Accepted for publication, 2024.

Book Chapter

Lin J, Jin X, Gossett D, Wang S. Inhibition of AKT oncogenic pathway in endometrial cancer Cells. Pages 139-149. Cell and Molecular Biology of Endometrial Carcinoma. Springer (2003).

Grant Support

Active Grants:

7/01/2022 – 6/30/2026 PI: Jiayuh Lin (62.5 % effort)

Title: Co-Targeting IL-6 and CDK4/6 Pathways as a Novel Approach of Preventive Therapy for Triple-Negative Breast Cancer

Funding Agency: VA Merit Award. BX005788

Total direct costs: \$1,225,563

1/1/2024 – 12/31/2025 PI: Jiayuh Lin (5% effort)

Title: Dual inhibition of PARP and STAT3 as a novel therapeutic approach for triple-negative breast cancer

Funding Agency: NIH R21

Total direct costs: \$275,000

7/01/2024 – 6/30/2027 MPI: Jiayuh Lin (25 % effort)

Title: Dual Inhibition of PARP and IL-6 as a Novel Therapeutic Approach for BRCA-Mutated Triple-Negative Breast Cancer

Funding Agency: CDMRP (Breast Cancer Research Program).

Total direct costs: \$750,000

Pending Grants

Completed Grants

5/01/2020 – 4/30/2024 PI: Jiayuh Lin

Title: IL-6/GP130 signaling as a novel chemoprevention target for triple- negative breast cancer

Funding Agency: CDMRP (Breast Cancer Research Program).

Total direct costs: \$1,500,000

12/14/2021 – 12/13/2023 Co-Investigator: Jiayuh Lin

Title: Repurposing Bazedoxifene for chemoprevention in pre-invasive pancreatic cancer IPMN

Funding Agency: NIH R21

6/01/2015 - 5/31/2021 PI: Jiayuh Lin

Title: A novel STAT3-selective inhibitor for medulloblastoma therapy

Funding Agency: NIHR01

Total direct and indirect costs: \$1,660,665

02/01/2015 - 01/31/2018 PI: Jiayuh Lin

Title: Repositioning Bazedoxifene as a novel IL-6/GP130 inhibitor for sarcoma therapy

Funding Agency: NIHR21

Total direct costs: \$275,000

Major Invited Speeches

Local

Invited as a seminar speaker at the Department of Internal Medicine, University of Michigan

1. **Lin J.** “ STAT3 pathway in ovarian cancer “ (2001).
2. **Lin J.** “ Target endometrial and ovarian cancer cells with a novel AKT inhibitor “ (2003).

Invited as a seminar speaker at the University of Michigan Comprehensive Cancer Center

1. **Lin J.** “ STAT3 pathway in cancer” Cancer Biology seminar (2001).
2. **Lin J.** “ Regulation of STAT3 activity by p53 in cancer cells “Apoptosis seminar series (2002).
3. **Lin J.** “ Target STAT3 pathway in cancer cells” (2003).

Invited as a seminar speaker at the Ohio State University:

1. **Lin J.** STAT3 pathway in cancer cells (2004), Department of Laboratory Medicine.
2. **Lin J.** Phosphorylation profiles of tyrosine kinases, Department of Chemistry (2005).
3. **Lin J.** The STAT3 signaling pathway in cancer cells, Department of Molecular Virology, Immunology and Medical Genetics (2005).
4. **Lin J.** The STAT3 signaling pathways in human cancer cells, IBGP graduate program (2006).
5. **Lin J.** The inhibitory efficacy of curcumin analogues in cancer cells, Department of Internal Medicine (2008).
6. **Lin J.** The STAT3 pathway in cancer-initiating cells, IBGP graduate program (2013).
7. **Lin J.** IL-6/STAT3 signaling pathway in cancer, OSBP graduate program (2014)
8. **Lin J.** IL-6/STAT3 signaling pathway in cancer, MCDB graduate program (2014)
9. **Lin J.** IL-6/STAT3 signaling pathway in cancer, Department of Chemistry (2015)

Invited as a seminar speaker at other Universities in the state of Ohio

- 2000 **Lin J.** “ A modified p53 enhanced suppression activity in cancer cells expressing high levels of mdm2”, Department of Biochemistry and Molecular Biology, Wright State University, Dayton, OH.
- 2005 **Lin J.** Medical University of Ohio, Toledo, OH (presented seminar on STAT3 in cancer).
- 2007 **Lin J.** Ohio University, Athens, OH (presented seminar on STAT3 in cancer).

National

- 2000 **Lin J.** “ Stat3 pathway in cancer”, Wake Forest University, Winston-Salem, NC.
- 2000 **Lin J.** “ Stat3 pathway in cancer”, The Pennsylvania State University, Hershey, PA.
- 2000 **Lin J.** “ Targeting Stat3 pathway in cancer”, M.D. Anderson Cancer Center, Houston, TX.
- 2001 **Lin J.** Stat3 pathway in cancer”, Mount Sinai Medical Center, NY
- 2002 **Lin J.** “ Regulation of Stat3 activity by p53 in cancer cells “,Biology Department Seminar Series, Providence College, Providence, RI.
- 2002 **Lin J.** “ Target endometrial and ovarian cancer cells with a novel AKT inhibitor “, National Yang-Ming University, College of Medicine, Taipei, Taiwan.
- 2002 **Lin J.** “ A novel AKT inhibitor targets endometrial cancer cells with PTEN mutation“, International Symposium on Cell and Molecular Biology of Endometrial Carcinoma, Kitasato Institute & University, Tokyo, Japan.
- 2003 **Lin J.** “Activation of AKT and Stat3 pathways in cancer cells”, University of Wisconsin, Madison, WI.
- 2009 **Lin J.** Indiana University Cancer Center, IN.
- 2010 **Lin J.** College of Pharmacy, University of Kentucky, Lexington, KY
- 2013 **Lin J.** Drexel University College of Medicine, Philadelphia, PA
- 2017 **Lin J.** West Virginia University, Morgantown, WV

- 2016 **Lin J.** NCI, 3rd Pancreatic cancer Symposium, Bethesda, MD.
 2018 **Lin J.** NCI, 4th Pancreatic cancer Symposium, Bethesda, MD.
 2018 **Lin J.** Eastern Virginia University Medical School, Norfolk, VA

International

- 2002 **Lin J.** “A novel AKT inhibitor targets endometrial cancer cells with PTEN mutation”, International Symposium on Cell and Molecular Biology of Endometrial Carcinoma, Kitasato Institute & University, Tokyo, Japan.
 2002 **Lin J.** “Target endometrial and ovarian cancer cells with a novel AKT inhibitor”, National Yang-Ming University, College of Medicine, Taipei, Taiwan.
 2012 **Lin J.** “IL-6/STAT3 signaling in cancer”.
 The German Cancer Research Center, Heidelberg, Germany

Proffered Communications

International scientific meetings held outside the United States

- Lin, J.,** Wan, Y., Bata-Corsgo, Z., Talwar, H., Kang, S., Voorhees, J. J., and G. J. Fisher. (5/1998) UV rapidly activates cell surface receptors and three distinct MAP kinases in skin in vivo. *SID meeting, Cologne, Germany.*
 Song H., Wang S., Wang R., and **Lin J.** Targeting STAT3 pathway by small molecule compounds in breast carcinoma cells. An abstract was presented at the *Keystone Symposia- Jaks and Stats: Development to Disease* (British Columbia, 4/2004).
 Song H., Jin X., and **Lin J.** STAT3 modulates MEK5 expression in breast carcinoma cells. An abstract was presented at the *CFBS Annual Meeting (Cancer section)* (Vancouver, 5/2004).
 Lin Li, Hutzen B, Ball S, Zuo M, Foust E, DeAngelis S, Wei C, Peng Z, Li C, Fuchs J, Li P-K, Kulp S, Lin H-J L., Ihnat MA., Lesinski GB., Hoyt D , Termuhlen AM, Gross T, and **Lin J.** A novel small molecule exhibits potent growth suppressive activity through the inhibition of constitutive JAK2/STAT3 signaling in human cancer cells. The abstract was presented at the *TAT Annual Meeting* (Amsterdam, Netherland 2009).

International scientific meetings held in the United States

- Lin, J.,** and D. T. Simmons. (1990) The formation of stable T-p53 complexes is not required for replication of SV40 in culture. *Tumor virus meeting on SV40, polyoma, and adenoviruses.* (Cold Spring Harbor Laboratory).
Lin, J., and D. T. Simmons. (1991) The ability of large T antigen to complex with p53 Is essential for the increased lifespan and partial transformation of human cells by SV40. *The fifth annual p53 workshop* (Princeton, NJ).
Lin, J., Chen, J., Elenbaas, B., and A. J. Levine. (1994) Two critical amino acids in p53 protein are required for transcriptional activation by wt and mutant p53 proteins as well as the binding of mdm-2 and E1B 55kd oncogene products. *Cold Spring Harbor Laboratory Symposium "Molecular Genetics of Cancer "*.
Lin, J., Chen, J., Elenbaas, B., and A. J. Levine. (1994) Several hydrophobic amino acids in the p53 N-terminal domain of p53 are involved in binding to mdm-2, Adenovirus 5 E1B 55kd protein, and for wild-type or mutant p53 transcriptional activation. *Tenth annual meeting on Oncogenes.*
Lin, J., Chen, J., Elenbaas, B., Anwell Chang and A. J. Levine. (1994) Two critical amino acids in the N-terminal domain of p53 are required for transcriptional activation by wild-type and some mutant p53 as well as the binding of mdm-2 and AD 5 E1B 55kd oncogene products. *The 7th annual p53Workshop.*

- Page, C., H. Lin, V. K. Sondak, V. P. Castle, G. Jiang, K. R. Reynolds, and **J. Lin.** (2000) Evaluation of gene therapy with an adenovirus modified p53 vector in human cancer cells expressing high levels of mdm2 oncoprotein. An abstract was presented at the *AACR 91st Annual Meeting* (San Francisco).
- Huang M., Page, C., Changery, J. L., Cho K., Reynolds, K. R., and **J. Lin.** (2000) Expression of constitutive activation of AKT and Stat3 in ovarian, cervical, and prostate cancer cells. *AACR 91st Annual Meeting*.
- Page, C., Inohara, N., Nunez, G., Zhau, X., Day L. M., and **J. Lin.** (2000) Expression pro-apoptotic genes as competitive inhibitors to Bcl-2 and Bcl-X_L in prostate cancer cells. *AACR 91st Annual Meeting*.
- Page, C., Lin, H., Sondak, V. K., Jiang, G. Castle, V., Reynolds, K. R., and **J. Lin.** (10/2000) A modified p53 overcomes mdm2 inhibition. *10th Annual p53 Workshop* (Monterey, CA).
- W. Burke, X. Jin, R. Liu, Y. Jiang, M. Huang, R. K. Reynolds, and **J. Lin.** Inhibition of constitutively active Stat3 pathway in ovarian cancer cells. An abstract was presented to the *AACR 92nd Annual Meeting* (New Orleans-2001).
- J. Lin.** X. Jin, W. Burke, K. Kothman, and R. K. Reynolds. Inhibition of p53 apoptotic in cancer cells. An abstract was presented to the *AACR 92nd Annual Meeting* (New Orleans-2001).
- Reid, T. Song, H. R. K. Reynolds, and **J. Lin.** Inhibition of JAK1/2 and Stat3 pathways by p53 tumor suppressor in human ovarian cancer cells. An abstract was presented at the *AACR 93rd Annual Meeting* (San Francisco-2002).
- Tang H., Jin X., Wang S., Yang D., Gossett D., and **Lin J.** A novel small molecular inhibitor inhibits AKT pathway in ovarian cancer cells. An abstract was presented at the *AACR Annual Meeting* (Washington D. C., 2003).
- Jin X., Gossett D., Wang S., Yang D., Reynolds RK., and **Lin J.** Inhibition of the AKT survival pathway by a novel AKT inhibitor in endometrial cancer cells. An abstract was presented at the *AACR Annual Meeting* (Washington D. C., 2003).
- Song H., Wang S., Wang R., and **Lin J.** Inhibition of STAT3 oncogenic pathway by a novel non-peptide small molecule inhibitor in human breast cancer cells. An abstract was presented at the *AACR Advances in Breast Cancer Research Meeting* (CA, October 2003).
- Song H., Wang S., Wang R., and **Lin J.** Inhibition of STAT3 pathway by a novel small molecule inhibitor in cancer cells. An abstract was presented at the *AACR Annual Meeting* (Orlando, 4/2004).
- Song, H, Hsieh F, and **Lin J.** Evaluation of the Stat3-regulated genes in breast cancer. An abstract was presented at the *AACR Annual Meeting* (Anaheim, CA 2005).
- Lin, H., Song, H., Hsieh F, and **Lin J.** Studies of phosphorylation on receptor and non-receptor protein kinases in human breast cancer. An abstract was presented at the *AACR Annual Meeting* (Anaheim, CA 2005).
- Cen L., Hsieh F, Lin H., Chen, C. S., Qualman SJ, and **Lin J.** Phosphorylation profile of protein kinases in PDK-1/AKT pathway and the effect of PDK-1 inhibitor in rhabdomyosarcomas. The abstract was presented at the *AACR Annual Meeting* (Washington D. C. 2006).
- Chen C., Loy A., Hsieh F., Gong Cheng, Qualman SJ, Hall B., and **Lin J.** Activation of Stat3 pathway in human rhabdomyosarcoma, osteosarcoma and soft-tissue sarcoma. The abstract was presented at the *AACR Annual Meeting* (Washington D. C 2006).
- Fuh B., Chen C., Wang S., and **Lin J.** Inhibition of Bcl-2/Bcl-X_L by a small molecular inhibitor in rhabdomyosarcomas cells. The abstract was presented at the *AACR Annual Meeting* (Washington D. C 4/2006).
- Hutzen B., Fuh B., Chan C., Sobo M., Li C., Li P., and **Lin J.** A novel Stat3 inhibitor suppresses cancer cell growth and induces apoptosis in human pancreatic, breast, and brain tumor cells. The abstract was presented at the *AACR Annual Meeting* (San Francisco 2007).

- Lieblein JC., Sasser K., Huang Tim H-M., Lin H., and **Lin J.** STAT3 is activated through paracrine signaling in the breast tumor microenvironment and is mediated through IL-6. The abstract was presented at the *AACR Annual Meeting* (San Francisco 2007).
- Chen C., Loy A., Hsieh F., Cheng G., Wu B., Kunisada K., Yamauchi-Takahara K., and **Lin J.** Inhibition of constitutive Stat3 pathway suppresses cancer cell growth and induces apoptosis in human bladder cell lines. The abstract was presented at the *AACR Annual Meeting* (San Francisco 2007).
- Lieblein JC., Ball S, Hutzen B., Lin Z., and **Lin J.** Paracrine signaling from the breast cancer cells stimulates the cell proliferation and Stat3 phosphorylation in non-cancerous mammary epithelial cells and is blocked by dietary agent, curcumin. The abstract was presented at the *Sixth Annual AACR International Conference: Frontiers in Cancer Prevention Research* (Philadelphia, PA, 12/2007).
- Cen L, Deangelis S, Willis W, Ball S, Jones S, Chan C, Fuh B, and **Lin J.** The inhibitory effects of dietary agents in pancreatic and colon cancer cells. The abstract was presented at the *Sixth Annual AACR International Conference: Frontiers in Cancer Prevention Research* (Philadelphia, PA, 12/2007).
- Hutzen B., Cen L., Friedman L., Sobo M., Ball S., Li P., Li C., Fuchs J., Bhasin D., Pandit B., Shibata H., Iwabuchi Y., and **Lin J.** New curcumin analogues with enhanced growth suppressive activity in cancer cells. The abstract was presented at the *AACR Annual Meeting* (San Diego, CA 2008).
- Fossey S, Liao L, Bear M, **Lin J**, Li P-K, Kisseberth W, London, C. Investigating the role of STAT3 dysregulation in human and canine osteosarcoma. The abstract was presented at the *AACR Annual Meeting* (San Diego, CA 2008).
- Lin L, Hutzen B, Ball S, Foust E, DeAngelis S, Zuo M, Peng Z, Li C, Fuchs J, Li P-K, Lesinski GB, Kulp S, Lin H-J L, Ihnat MA, Hoyt D, Termuhlen AM, Gross T, and **Lin J.** A novel small molecule exhibits potent growth suppressive activity through the inhibition of constitutive JAK2/STAT3 signaling in breast, pancreatic cancer, and glioblastoma cells. The abstract was presented at the *AACR Annual Meeting* (Denver, CO 2009).
- Lesinski GB, Bill MA, Li C, Fuchs F, Kulp S, Ihnat M, **Lin J**, Hoyt D, Young G, Carson III WE, Li P-K. The small molecule curcumin analog FLLL-32 induces apoptosis in human melanoma cells via STAT3 inhibition and elicits in vivo anti-tumor activity. The abstract was presented at the *AACR Annual Meeting* (Denver, CO 2009).
- Lesinski, GB, Bill, Bakan C, Benson DM Jr., Schwartz EB, **Lin J**, Hoyt DG, Fossey SL, Young GS, Carson WE III, Li P-K. Small molecule curcumin analogs induce apoptosis in human melanoma cells via STAT3 inhibition but do not alter the cellular response to immunotherapeutic cytokines. The abstract was presented at The International society for biologic therapy of cancer annual meeting (Washington DC 2009).
- Bill MA, Fuchs JR, Li C, Schwartz EB, **Lin J**, Hoyt DG, Foor B, Otterson D, Yui J, Carson WE III, Li P-K, Lesinski GB. STAT3-specific small molecule curcumin analogs FLLL32 and FLLL62 induce apoptosis and enhance the direct anti-tumor effect of interferons. The abstract was presented at The International society for biologic therapy of cancer annual meeting (Washington DC 2009).
- Lin L., Hutzen B, Peng Z., Lin H., Li P-K., Li C., Wicha M., and **Lin J.** STAT3 as a novel therapeutic target in human breast cancer stem cells. The abstract was presented at the *EORTC-NCI-AACR International Symposium on Molecular Targets and Cancer Therapeutics Annual Meeting* (Boston, MA 2009).
- Zuo, Lin L. Li C, Li P-K, and **Lin J.** STAT3 as a chemoprevention target in liver cancer cells. The abstract was presented at the *Sixth Annual AACR International Conference: Frontiers in Cancer Prevention Research* (Houston, TX, 12/2009) **Received an AACR travel award.**

- Liu Y., Li C., Li Pui-Kai, **Lin J.** A small molecule, LLL12, inhibits IL-6 induced STAT3 phosphorylation and nuclear translocation. The abstract was presented at the *AACR Annual Meeting* (Washington D. C. 2010). **Received an AACR travel award.**
- Lin L., Hutzen B, Peng Z., Lin H., Li P-K., Li C., Wicha M., and **Lin J.** STAT3 is required for survival of human breast cancer stem cells. The abstract was presented at the *AACR Annual Meeting* (Washington D. C. 2010). **Received an AACR top-rated abstract award.**
- Lin L., Li C., Li P-K., Fuchs J., and **Lin J.** STAT3 as a novel cancer therapeutic target in colorectal cancer stem cells. The abstract was presented at the *AACR Colorectal Cancer: Biology to Therapy Meeting* (Philadelphia, PA, 10/2010). **Received an AACR travel award.**
- Tang A., Abuzeid, WM, Chinn S., Jones T., Davis S., **Lin J.**, Fuchs J., Bradford C., Carey T., Prince M. Targeting Cancer stem cells through STAT3 inhibition in head and neck cancers. The abstract was presented at the *AACR Annual Meeting (Orlando, Florida 2011)*.
- Lin L., Li P-K., Fuchs J., Li C., and **Lin J.** STAT3 is necessary for proliferation and survival in pancreatic cancer-initiating cells. The abstract was presented at the *AACR Annual Meeting (Orlando, Florida 2011)*.
- Liu A., Liu A., Xu, Z., Yu W., Wang H., Li C., **Lin J.** A novel small molecule, XZH-5 inhibits constitutive and interleukin-6-induced STAT3 phosphorylation in human rhabdomyosarcoma cells. The abstract was presented at the *AACR Annual Meeting (Orlando, Florida 2011)*.
- Liu A., Xu M., Li H., Zhao Z., McWilliams E., Xu Y., Li C., and **Lin J.** Novel drug development approach targeting STAT3 for sarcoma therapy using MLSD and drug reposition. The abstract will be presented at the *EORTC-NCI-AACR International Symposium on Molecular Targets and Cancer Therapeutics Annual Meeting* (San Francisco, CA 2011).
- Lin, L., Li, H., Xu, M., Zhao, Z., Olson, V., Xu, Y., Li, C., **Lin, J.** Novel drug discovery approach targeting STAT3 for breast cancer therapy using MLSD and drug repositioning. This abstract was presented at the *AACR Annual Meeting* (Chicago, IL 2012).
- Bid, H.K., Oswald, D., Li, C., **Lin, J.**, Houghton, P.J. Direct anti-angiogenic activity of a small molecular STAT3 inhibitor LLL12. This abstract was presented at the *AACR Annual Meeting* (Chicago, IL 2012).
- Bid H., Kibbler A., Phelps D., Manap S., Xiao L., **Lin J.**, Capper D., Oswald D., Geier B., DeWire M., Smith P., Kurmasheva R., Mo X., Fernandes S., Houghton P. Development, Characterization, and Reversal of Acquired Resistance to the MEK1 Inhibitor Selumetinib (AZD6244) in an In Vivo Model of Childhood Astrocytoma. This abstract was presented at the *AACR Annual Meeting* (Washington D. C. 2013).
- Xiao H., Yu W., Olson, V., Li, C., Houghton P., **Lin, J.** A novel small molecule, LY5 selectively inhibits STAT3 phosphorylation and activities and exhibits potent growth suppressive activity in cancer cells. This abstract was presented at the *AACR Annual Meeting* (Washington D. C. 2013).
- Xiao H., Bian Y., Joe D., Li H., Lin L, Li C., and **Lin, J.** GP130 as a novel therapeutic target in IL-6-dependent cancers. This abstract was presented at the *AACR Annual Meeting* (San Diego, CA 2014).
- Yang J, Keenan K, Mace T, Bekaii-Saab T, Fuchs J, Schwartz E, Li C, **Lin J**, Li P, Lesinski G. STAT3 inhibitors elicit direct anti-tumor effects against human biliary cancer cell lines and limit release of immune suppressive cytokines *in vitro*. This abstract was presented at the *AACR Annual Meeting* (San Diego, CA 2014).
- Wu X., Xiao H., Li, C., **Lin, J.** Persistent STAT3 signaling contributes to the resistance of anti-cancer drugs doxorubicin and cisplatin, and MEK inhibitor AZD6244 in childhood sarcoma cells. This abstract was presented at the *AACR Annual Meeting* (Philadelphia, PA 2015).
- Wu X., Xiao H., Li, C., **Lin, J.** Bazedoxifene as a novel inhibitor of IL-6/GP130 signaling for pancreatic cancer therapy. This abstract was presented at the *EORTC-NCI-AACR International*

Symposium on Molecular Targets and Cancer Therapeutics Annual Meeting (Boston, MA 2015).

Yang C., Li, C., **Lin, J.** Dual inhibition of STAT3 and IL-8 pathways as a novel therapeutic approach in osteosarcoma. This abstract was presented at the *AACR Annual Meeting* (New Orleans, LA 2016).

Tian J., Yang C., Chen X., Xiao H., Li, C., **Lin, J.** Bazedoxifene as a Novel GP130 Inhibitor for the Treatment of Triple Negative Breast Cancer. This abstract was presented at the *AACR Annual Meeting* (Washington D. C. 2017).

Pan L., Chen X., Rassool F., Li C., **Lin J.** LLL12B, a novel small molecule STAT3 inhibitor induces apoptosis and suppresses cell migration and tumor growth in triple-negative breast cancer cells. This abstract will be presented at the *AACR Annual Meeting* (New Orleans, LA 2022).

Caroland K., Shi C., Lo H-W., **Lin J.** Dual inhibition of CDK4/6 and IL-6 pathways as a novel therapeutic approach for triple-negative breast cancer. This abstract was presented at the *AACR Annual Meeting* (San Diego, CA 2024).

National

Lin, J., Reichner, C., and A. J. Levine. (1995) Analysis of wild-type and mutant p21^{WAF1} activities in cyclins-cdks binding and growth suppression of tumor cells. *Cancer Genetics and Tumor Suppressor Genes*.

Page, C., H. Lin, V. K. Sondak, G. Jiang, V. Castle, K. R. Reynolds, and **J. Lin.** (1999) Gene therapy with a modified p53 overcomes mdm2-mediated oncogenic transformation. *Oncogene and growth Control Meetings* (The Salk Institute, La Jolla, CA).

Page, C., H. Lin, V. K. Sondak, G. Jiang, V. Castle, K. R. Reynolds, and **J. Lin.** (1999) Novel cancer gene therapy with a modified p53. *AACR-NCI-EORTC Molecular Targets and Cancer Therapeutic Meeting*. The abstract was published in the November supplement to *Clinical Cancer Research*.

Lilja, J., Wu, D., Page, C., Reynolds, K. R., Dixon, J., and **J. Lin.** (2000) Growth suppression activity of PTEN tumor suppressor gene. An abstract was presented at the *Annual SGO Meeting* (San Diego).

Page, C., H. Lin, M. Huang, R. Liu, V. Castle, K. R. Reynolds, and **J. Lin.** (2000) The role of AKT oncogene in ovarian cancers. An abstract was presented at the *Annual SGO Meeting* (San Diego, CA).

W. Burke, M. Huang, X. Jin, R. Liu, R. K. Reynolds, and **J. Lin.** Inhibition of constitutively active Stat3 pathway in ovarian cancer cells. An abstract was presented in the *SGO Annual Meeting* as an oral presentation for a focused plenary section on cell cycle regulation (Nashville-2001).

J. Lin. X. Jin, W. Burke, K. Kothman, and R. K. Reynolds. Inhibition of the p53 pathway in ovarian cancer cells. An abstract was presented by the *SGO Annual Meeting* (Nashville-9/2001).

Jin, X. Burke, W. R. K. Reynolds, and **J. Lin.** Inhibition of Stat3 By p53 in breast cancer cells. An abstract was presented at the *SGO Annual Meeting* (Miami-9/2002).

Reid, T. Song, H. R. K. Reynolds, and **J. Lin.** Inhibition of JAK1/2 and Stat3 pathways by p53 tumor suppressor in human ovarian cancer cells. An abstract was presented at the *SGO Annual Meeting* (Miami-2002).

Tang H., Jin X., Wang S., Yang D., Gossett D., and **Lin J.** A novel small molecular inhibitor inhibits AKT pathway in ovarian cancer cells. *SGO Annual Meeting* (New Orleans-9/2003).

Jin X., Wang S., Yang D., Gossett D., Reynolds RK., and **Lin J.** Inhibition of the AKT survival pathway by a novel AKT-selective inhibitor in endometrial cancer cells. An abstract was presented at the *SGO Annual Meeting* (New Orleans-9/2003).

- Gossett D, Bradley M, Jin X, and **Lin J**. 17-Allyamino-17-Demethoxygeldanamycin and 17-NN-Dimethyl Ethylene Diamine-Geldanamycin have cytotoxic activity against multiple gynecologic cancer cell types. An abstract was presented at the *molecular Targets for Cancer Therapy meeting* (Tampa, 10/2004).
- Hsieh F, Qualman SJ, and **Lin J**. Evaluation of the Stat3 activation in human osteosarcoma. An abstract was presented at the *PAS annual meeting* (Washington D. C., 5/2005).
- Cen L., Arnoczky K., Hsieh F, Lin H., Qualman SJ, and Lin J. Phosphorylation profiles of protein kinases in human rhabdomyosarcomas. *Clinical Cancer Research*. 11(24 Suppl.):9110s, 2005.
- Cen L., Arnoczky K., Hsieh F, Lin H., Qualman SJ, and **Lin J**. Phosphorylation profiles of protein tyrosine kinases in human rhabdomyosarcomas. The abstract was presented at the *Connective Tissue Oncology Society Annual Meeting* as an oral presentation (Boca Raton, FL 2005).
- Chen C., Loy A., Hsieh F., Gong Cheng, Qualman SJ, Hall B., and **Lin J**. Activation of Stat3 pathway in human rhabdomyosarcoma, osteosarcoma and soft-tissue sarcoma. An abstract was presented at the *PAS annual meeting* (San Francisco 5/2006).
- Cen L., Hsieh F, Lin H., Chen, C. S., Qualman SJ, and **Lin J**. Phosphorylation profile of protein kinases in PDK-1/AKT pathway and the effect of PDK-1 inhibitor in rhabdomyosarcomas. The abstract was presented at the *PAS annual meeting* (San Francisco 5/2006).
- Fuh B., Chen C., Wang S., and **Lin J**. Inhibition of Bcl-2/Bcl-X_L by a small molecular inhibitor in rhabdomyosarcomas cells. An abstract was presented at the *PAS annual meeting* (San Francisco 5/2006).
- Yang E., Kim S, Donovan EL, Chen M, Beickelman A, Hutzen B J, **Lin J**, Barsky SH, and Glaser, R. Norepinephrine upregulates VEGF, IL-6, and IL-8 expression in human melanoma tumor cell lines: implications for stress-related enhancement of tumor progression. The abstract will be presented at the *Psychoneuroimmunology Research Society Annual Meeting* (Madison, WI 2008).
- Fossey SL, Liao AT, Bear MD, **Lin J**, Li PK, Kisseberth WC, and London CA. Annual Meeting of The American College of Veterinary Pathologists. "Investigating the Role of STAT3 Activation in Human and Canine Osteosarcoma." (November 10-14, 2007), Savannah, GA.
- Fuchs J, Etter J, Li P, Abdelhamid D, Regan N, Bhasin D, Pandit B, Li C, Cisek K, Cen L, Hutzen B, and **Lin L**. Synthesis and antiproliferative activity of curcumin analogues. The abstract will be presented at the American Chemical Society National Meeting & Exposition (Philadelphia, PA, August 17-21, 2008).
- Lin L., Hutzen B, Peng Z., Lin H., Li P-K., Li C., Wicha M., and **Lin J**. STAT3 as a novel therapeutic target in human breast cancer stem cells. The abstract was presented at The International society for biologic therapy of cancer annual meeting (Washington DC 2009).
- Lin L, Zuo M, DeAngelis S, Li C, Li P-K, and **Lin J**. Target constitutive STAT3 pathway in Glioblastoma cells with a novel small molecular STAT3 inhibitor. The abstract was presented at the *AACR Brain Tumor Meeting* (San Diego, CA 12/2009).
- Ball S, Li C, Li P-K, and **Lin J**. Target constitutive STAT3 signaling in human medulablastoma cells with a novel small molecular STAT3 inhibitor. The abstract was presented at the *AACR Brain Tumor Meeting* (San Diego, CA 12/2009).
- Abuzeid WM, Davis S, Tang A, Saunders L., **Lin J**, Fuchs J., Bradford CR., Carey TE. Sensitization of head and neck cancer to cisplatin through the inhibition of STAT3. The abstract was presented to the *American Head and Neck Society Annual Meeting* (Las Vegas, NV 2010).
- Bill, M., Nicholas, C., Mace, T., He, L., Ling, Y., Phelps, M., Li, C., Schwartz, E., Fuchs, J., Lin, L., **Lin, J.**, London, C., Young, G., Li, P-K., Lesinski, G. A novel bioavailable small molecule curcumin analog FLLL100-P inhibits STAT3 signaling and induces apoptosis in melanoma cells. The abstract was presented at the *Society for Immunotherapy of Cancer (SITC) Annual Meeting* (Bethesda, Maryland 2011).

- Rozewski D, Cho Y, Mace T, He L, Schwartz E, Ling Y, Bill M, London C, **Lin J**, Li C, Fuchs R, Lesinski G, Phelps M. Comprehensive pharmacokinetic-pharmacodynamic modeling to optimize FLLL100P-induced inhibition of pSTAT3 in pancreatic cancer. This abstract was presented at The Great Lakes Drug Metabolism and Disposition Group Annual Meeting (Indianapolis, IN 2014).
- Ling Y, Zhu X, Rozewski D, Bear M, **Lin J**, Li C, Li P, London C, Phelps M. Pharmacokinetic evaluation of STAT3 inhibitors LLL12 and LY5 in Mice. This abstract was presented at the Annual American Pharmaceutical Scientist meeting and symposium (San Diego, CA 2014).
- Wu X., Xiao H., Li, C., **Lin, J.** Persistent STAT3 signaling contributes to the resistance of anti-cancer drugs doxorubicin and cisplatin, and MEK inhibitor AZD6244 in childhood sarcoma cells. This abstract was presented at the American Society for Cell Biology Annual Meeting (Philadelphia, PA 2014).
- Wu X., Xiao H., Li, C., **Lin, J.** Bazedoxifene as a novel inhibitor of IL-6/GP130 signaling for pancreatic cancer therapy. This abstract was presented at the 3rd NCI-Pancreatic Cancer Symposium (Bethesda, MD 2015).
- Wu X., Xiao H., Li, C., **Lin, J.** IL-6/GP130 signaling in pancreatic cancer. A talk was presented at the 4th NCI-Pancreatic Cancer Symposium (Bethesda, MD 2018).

Local and Institutional

Seminars presented at the University of Michigan:

Department of Obstetrics and Gynecology, University of Michigan

1. **Lin, J.** “Overexpressing of AKT confer taxol-resistant phenotype in ovarian cancer cells “ (1999).
2. **Lin, J.** “A modified p53 enhanced suppression activity in cancer cells expressing high levels of mdm2” (2000).
3. **Lin, J.** “STAT3 pathway in ovarian cancer “ (2000).
4. **Lin, J.** “Cancer gene therapy using a modified adenovirus p53 in sarcoma cells “ (2001).
5. **Lin, J.** “Apoptotic activity of pro-apoptotic genes in prostate cancer ” (2001).
6. **Lin, J.** “Regulation of STAT3 activity by p53 in cancer cells “ (2002).
7. **Lin, J.** “Target endometrial cancer with AKT inhibitor “ (2002).
8. **Lin, J.** “STAT3 regulated genes in breast epithelial cells. (2004).

PIBS New Faculty Lunch Series, University of Michigan

Lin, J. Activation of STAT3 pathway in cancer cells (2003).

University of Michigan RSDP Program

Lin, J. Regulation of STAT3 pathway in cancer cells (2004).

University of Michigan Comprehensive Cancer Center

1. **Lin, J.** “Apoptotic activity of pro-apoptotic genes in prostate cancer “ Prostate SPORE (2001).
2. **Lin, J.** “Cancer gene therapy using a modified adenovirus p53 in cancer cells expressing high levels of mdm2” (2001).

Seminars presented at the Ohio State University:

The Department of Pediatrics, The Ohio State University

1. **Lin, J.** STAT3 signaling pathway in cancer cells (2004).
2. **Lin, J.** STAT3 pathway in cancer (2007).
3. **Lin, J.** Targeting STAT3 in cancer cells (2009)
4. **Lin, J.** STAT3 in childhood cancer (2009)

5. **Lin, J.** IL-6/STAT3 signaling pathway in cancer (2014)
6. **Lin, J.** IL-6/GP130/STAT3 signaling as a cancer therapeutic target in sarcoma cells (2015)

IBGP, The Ohio State University

1. **Lin, J.** The STAT3 pathway in human cancer (2007).
2. **Lin, J.** STAT3 signaling pathway in cancer (IBGP8510: 2013).

Department of Internal Medicine, The Ohio State University

1. **Lin, J.** The inhibitory efficacy of LLL12 in breast cancer stem cells at OSUMC (2009).
2. **Lin, J.** Curcumin analogs as chemoprevention agents to target STAT3 at OSUCCC Cancer Prevention program (2010).

Seminar presented at the University of Maryland School of Medicine in Baltimore:

The Department of Surgery, University of Maryland

Lin, J. IL-6/STAT3 signaling pathway in mesothelioma (2016)

The Department of Biochemistry and molecular Biology, Professor rounds for graduate students, University of Maryland

Lin, J. IL-6/GP130 signaling pathway in cancer (10/14/2016)

The Department of Biochemistry and molecular Biology, Cancer Focus Group, University of Maryland

Lin, J. IL-6/GP130 and IL-11/GP130 signaling pathways in cancer (10/19/2016)

Lin, J. IL-6/GP130 signaling pathways in melanoma (2018)

Molecular Medicine Graduate Program, Cancer Biology Track, Professor rounds for graduate students, University of Maryland

Lin, J. IL-6/GP130/STAT3 signaling pathway in cancer (10/24/2016)

Molecular and Structure Program, University of Maryland Comprehensive Cancer Center

Lin, J. IL-6/GP130 signaling pathway in cancer (2019)