

CURRICULUM VITAE

Chien-Wei Lin PhD

Associate Professor
Department of Data Science Institute
Division of Biostatistics

OFFICE ADDRESS:

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EDUCATION:

09/01/2000 - 06/30/2005 B.S., National Tsing Hua University, Hsinchu, Taiwan
09/01/2005 - 06/30/2007 M.S., National Chiao Tung University, Hsinchu, Taiwan
08/27/2012 - 04/30/2017 Ph.D., University of Pittsburgh, Pittsburgh, PA

FACULTY APPOINTMENTS:

08/01/2017 - Present Adjunct Assistant Professor, Department of Mathematical Sciences, University of Wisconsin - Milwaukee, WI
08/01/2017 - Present Assistant Professor, Biostatistics, Medical College of Wisconsin, WI

AWARDS AND HONORS:

12/2003 Academic Achievement Award, The National Tsing Hua University
09/2006 Academic Achievement Award, The National Chiao Tung University
07/2007 Chen Wen-Chen Memorial Scholarship in Statistical Sciences, Professor Chen Wen-Chen's Memorial Foundation
04/2014 Best ENAR Presentation Award, University of Pittsburgh
04/2015 Health Disparities Poster Competition Award, University of Pittsburgh
07/2015 CCNS Opening Workshop Travel Award, Statistical and Applied Mathematical Sciences Institute (SAMSI)
08/2015 CCNS Summer School Travel Award, Statistical and Applied Mathematical Sciences Institute (SAMSI)
03/2016 Distinguished Student Paper Award, International Biometric Society Eastern North American Region (ENAR)
04/2016 Best ENAR Presentation Award, University of Pittsburgh
05/2016 Challenges in Computational Neuroscience (CCNS) Transition Workshop Travel Award, Statistical and Applied Mathematical Sciences Institute (SAMSI)

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

03/01/2015 - Present American Statistical Association (Member)
10/01/2015 - Present International Biometric Society Eastern North American Region (Member)
04/30/2018 - Present Medical College of Wisconsin Genomic Sciences and Precision Medicine Center (Member)
06/01/2018 - Present International Chinese Statistical Association (Member)
11/27/2018 - Present Medical College of Wisconsin (MCW) Cancer Center (Member)

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active**Peer Review**

Title: Shaping diabetogenic T cells by IL-27 in type 1 diabetes
Source: NIH
Role & Effort: Co-I
PI: Yi-Guang Chen

Title: Enhancing NK cell functions by berry metabolites for colon cancer chemoprevention
Source: NIH
Role & Effort: Co-I
PI: Li-Shu Wang

Title: The Inflammatory Index as a Biomarker for Pain in Patients with Sickle Cell Disease
Source: NIH
Role & Effort: Co-I
PI: Amanda Brandow

Title: Plasma-induced signatures as a measure disease heterogeneity and immunomodulation in T1D clinical trials
Source: NIH
Role & Effort: Co-I
PI: Martin Hessner

Title: A self-organizing embryoid model of peri-implantation human development
Source: NIH
Role & Effort: Co-I
PI: Taniguchi Kenichiro

Title: Rat Genome Database
Source: NIH
Role & Effort: Co-I
PI: Anne Kwitek

Title: Analysis and validation of WGS results from a hemangioma syndrome cohort
Source: CRI
Role & Effort: Co-I
PI: Dawn Siegel

Title: Analysis of Whole Genome Sequencing Data From an Infantile Hemangioma Syndrome Cohort
Source: NIH
Role & Effort: Co-I
PI: Dawn Siegel

Title: Reducing innate inflammation in new onset T1D with Lactobacillus plantarum
Source: NIH
Role & Effort: Co-I

PI: Martin Hessner

Title: Genetic analysis of islet-infiltrating IL-21-expressing CD4 T cells in type 1 diabetes

Source: NIH

Role & Effort: Co-I

PI: Yi-Guang Chen

Title: Investigating the role of the microbiome and inflammation in acute and chronic pain in patients with sickle cell disease

Source: NIH

Role & Effort: Co-I

PI: Amanda Brandow

Title: ACS Pilot-Targeting LSD1 for high-grade endometrial cancer Supplement

Source: Cancer center

Role & Effort: Co-I

PI: Yi-Wen Huang

Pending

Peer Review

Title: Promoter hypomethylation of miR-137 facilitates EMT-related signaling in African American endometrial cancer

Source: NIH

Role & Effort: Co-I

PI: Yi-Wen Huang

Title: EMT signaling dysregulated in African American endometrial cancer

Source: NIH

Role & Effort: Co-I

PI: Yi-Wen Huang

Title: Hematopoietic Cell Manipulation in Next-Generation Gene Therapy for Fabry Disease

Source: NIH

Role & Effort: Co-I

PI: Jeffrey Medin

Title: Study design guidance for Single cell RNA sequencing experiment

Source: New Faculty Grant

Role & Effort: PI

PI: Chien-Wei Lin

Title: Common Fund Data Supplement: Analysis of Whole Genome Sequencing Data From an Infantile Hemangioma Syndrome Cohort

Source: NIH

Role & Effort: Co-I

PI: Dawn Siegel

Title: Plasma Signatures of Pregnancy
Complications: Focus on Preeclampsia

Source: AHW

Role & Effort: Co-I

PI: Rashmi Sood

Title: Targeting PIM1-mediated metabolism in
myeloid suppressor cells to overcome
PD-1 blockade resistance

Source: Versiti Wisconsin

Role & Effort: PI

PI: Chien-Wei Lin

Title: Effects of black raspberry
supplementation on Helicobacter pylori
eradication

Source: NIH

Role & Effort: Co-I

PI: Li-Shu Wang

Title: Inflammation and immune regulation in
pregnancy, parturition and preterm birth

Source: NIH

Role & Effort: Co-I

PI: Rashmi Sood

Title: Stem cell derived gut, lung, and brain
organoids to study the effect of CoV-2
on epithelial proteins

Source: NIH

Role & Effort: Co-I

PI: Michele Battle

Title: Metabolic reprogramming of MDSCs to
overcome PD-1 blockade resistance

Source: Versiti Wisconsin

Role & Effort: PI

PI: Chien-Wei Lin

Title: The Inflammatory Index as a Biomarker
for Pain in Patients with Sickle Cell
Disease

Source: NIH

Role & Effort: Co-I

PI: Amanda Brandow

Title: The role of innate inflammation and
probiotics in T1D progression

Source: NIH

Role & Effort: Co-I

PI: Martin Hessner

Title: Functional adaptation of autoreactive
CD8 T cells in type 1 diabetes

Source: NIH

Role & Effort:	Co-I
PI:	Yi-Guang Chen
Title:	Genetic analysis of CD8 T cell differentiation in type 1 diabetes
Source:	NIH
Role & Effort:	Co-I
PI:	Yi-Guang Chen
Title:	Nutrigenomics of black raspberry fiber in ulcerative colitis
Source:	NIH
Role & Effort:	Co-I
PI:	Li-Shu Wang
Title:	Modulation of the apico-basal proteome during fate determination: A spatial proteomic/bioinformatic platform to decipher epithelial cell polarity dynamics during human embryonic development
Source:	NIH
Role & Effort:	Co-I
PI:	Taniguchi Kenichiro

Prior

Peer Review

Title:	Molecular Aging of the Human Brain: Genetic Modulation and Functional Outcomes
Source:	NIH R01MH093723
Role & Effort:	Biostatistician
PI:	Sibille
Dates:	05/13/2011 - 02/29/2016
Title:	Power calculation and design issues in next-generation sequencing
Source:	R0101CA190766-01A1
Role & Effort:	Biostatistician
PI:	Tseng
Dates:	07/07/2015 - 06/30/2019

INVITED LECTURES/WORKSHOPS/PRESENTATIONS:

International

Chien-Wei Lin, George Tseng, SeqDesign: A framework for RNA-Seq genome-wide power Mar 2014/Mar 2016 calculation and experimental design issues, ENAR 2016, Austin, TX, 03/2016

Chien-Wei Lin, George Tseng, RNASeqDesign: A framework for RNA-Seq genome-wide power calculation and study design issues, ICSA 2018 Applied Statistics Symposium, New Brunswick, NJ, 06/14/2018 - 06/17/2018

Chien-Wei Lin, George Tseng, RNASeqDesign: A framework for RNA-Seq genome-wide power calculation and study design issues, ICSA China Conference, Qingdao, Shandong, China, 07/02/2018 - 07/06/2018

Chien-Wei Lin, George Tseng, RNASeqDesign: A framework for RNA-Seq genome-wide power calculation and experimental design issues, LIDS 2019, Pittsburgh, PA, 05/29/2019 - 05/31/2019

Chien-Wei Lin, Peng Liu, George Tseng, RNA-seq and Methyl-seq power calculation and design issue, ICSA 2019 Applied Symposium, Raleigh Convention Center, NC, 06/09/2019 - 06/12/2019

Chien-Wei Lin, George C. Tseng, RNASeqDesign: A framework for RNA-Seq genome-wide power calculation and experimental design issues., MCP 2019 Meeting, Taipei, Taiwan, 12/12/2019 - 12/15/2019

PEER REVIEWED WORKSHOPS/PRESENTATIONS:

International

SeqDesign: A framework for RNA-Seq genome-wide power calculation and experimental design issues. Contributed, ENAR, Baltimore, MD, 03/2014

Comparative Pathway Integrator: a framework of multiple transcriptomic studies for consensual and differential pathway analysis, Joint Statistical Meetings, Seattle, WA, 08/2015

Steven Henle, Chien-Wei Lin, Brian Link, Identifying the molecular roll for MFRP in human iPSC derived RPE maturation?, ARVO 2018 Annual Meeting, Honolulu, Hawaii, 04/29/2018 - 05/03/2018

Yuliya S. Nikolova, Chien-Wei Lin, Arin Bakht, Aristotle N. Voineskos, Ahmad R. Hariri, Etienne Sibille, Polygenic risk for accelerated molecular brain aging is associated with increased depressive symptoms and blunted corticolimbic circuit reactivity, SOBP, New York City, New York, 05/10/2018 - 05/12/2018

Steven Henle, Chien-Wei Lin, Brian Link, Identifying the molecular roll for MFRP in human iPSC derived RPE maturation?, Gordon Research Conference on Visual System Development, Lucca (Barga), IT, 05/20/2018 - 05/25/2018

Chien-Wei Lin, George Tseng, Adaptive weighting methods for identifying concordant differentially expressed genes in omics meta-analysis, ENAR 2019 Meeting, Philadelphia, PA, 03/24/2019 - 03/27/2019

Gabrielle C. Geddes, Chien-Wei Lin, Kathleen Mussatto, Aoy Tomita-Mitchell, Ciliopathy Burden and Neurodevelopmental Delay in Patients with Isolated Congenital Heart Disease, PAS 2019 Meeting, Baltimore, Maryland, 04/24/2019 - 05/01/2019

Ashley E. Ciecko, David M. Schauder, Bardees M. Foda, Chien-Wei Lin, Weiguo Cui, Yi-Guang Chen, Single-cell transcriptome analysis reveals diverse islet-infiltrating T cell subsets and a role for BATF in promoting the diabetogenic activity of CD8 T cells., AAI 2019 Meeting, San Diego, California, 05/09/2019 - 05/13/2019

Local

Genetic Modulation of Brain Molecular Aging, Dean's Day's Competition, University of Pittsburgh, Pittsburgh, PA, 04/2013

Genetic Modulation of Brain Molecular Aging, Dean's Day's Competition, University of Pittsburgh, Pittsburgh, PA, 04/2014

SeqDesign: A framework for RNA-Seq genome-wide power calculation and experimental design issues, Pittsburgh ASA banquet, Pittsburgh, PA, 04/2015

Genetic Modulation of Brain Molecular Aging, Health Disparities Poster Competition, University of Pittsburgh, Pittsburgh, PA, 04/2015

Genetic Modulation of Brain Molecular Aging, Dean's Day's Competition, University of Pittsburgh, Pittsburgh, PA, 04/2015

SeqDesign: A framework for RNA-Seq genome-wide power calculation and experimental design issues, Pittsburgh ASA banquet, Pittsburgh, PA, 03/2016

DNA Methylation in the Human Frontal Cortex Reveals a Putative Mechanism for Age-by-Disease Interactions, Dean's Day's Competition, University of Pittsburgh, Pittsburgh, PA, 04/2016

COMMITTEE SERVICE:

Medical College of Wisconsin

08/2017 - Present Member, Biostats Computer Committee, Division of Biostatistics, Institute for Health and Equity

01/2018 - Present Chair, Bioinformatics course development committee, Division of Biostatistics, Institute for Health and Equity

01/2018 - 09/2018 Chair, Applied Preliminary Exam, Division of Biostatistics, Institute for Health and Equity

01/2018 - Present Member, Fetal Concerns Scientific Committee, Fetal Concerns Center, Children's

Hospital of Wisconsin
04/2018 - 03/2019 Member, Seminar committee, Division of Biostatistics, Institute for Health and Equity
07/01/2018 - Present Member, Graduate Studies Council Curriculum & Programs Committee
09/2018 - Present Member, Dissertation committee of Ashley Ciecko, Department of Microbiology and Immunology
03/2019 - 05/2020 Chair, Seminar committee, Division of Biostatistics, Institute for Health and Equity
01/2020 - 09/2020 Chair, Applied Preliminary Exam, Division of Biostatistics, Institute for Health and Equity
06/2020 - Present Member, Dissertation committee of Manoj Khanal, Division of Biostatistics, Institute for Health and Equity

EXTRAMURAL TEACHING:

Graduate Student Education

10/2014 University of Pittsburgh, Guest lecturer of BOST 2055
03/2015 University of Pittsburgh, Guest lecturer of HUGEN 2070
03/2015 University of Pittsburgh, Guest lecturer of BOST 2094
01/09/2017 - 04/30/2017 University of Pittsburgh, Guest lecturer of BOST 2094
01/15/2018 - 05/03/2018 Division of Biostatistics, MCW, Statistical Models and Methods II
01/14/2019 - 05/01/2019 Division of Biostatistics, MCW, Statistical Genetics
09/2019 - 12/2019 Division of Biostatistics, MCW, Statistical Models and Methods III

PROGRAMMATIC DEVELOPMENTS:

Educational Programs

Faculty

01/2018 - Present Chair, Bioinformatics course development committee, Division of Biostatistics

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Diniz BS, Reynolds CF 3rd, Sibille E, Lin CW, Tseng G, Lotrich F, Aizenstein HJ, Butters MA. Enhanced Molecular Aging in Late-Life Depression: the Senescent-Associated Secretory Phenotype. *Am J Geriatr Psychiatry*. 2017 Jan;25(1):64-72. PMID: PMC5164865
2. Kim S, Lin CW, Tseng GC. MetaKTSP: a meta-analytic top scoring pair method for robust cross-study validation of omics prediction analysis. *Bioinformatics*. 2016 Jul 01;32(13):1966-73. PMID: PMC6280887
3. Liang YJ, Lin YT, Chen CW, Lin CW, Chao KM, Pan WH, Yang HC. SMART: Statistical Metabolomics Analysis-An R Tool. *Anal Chem*. 2016 Jun 21;88(12):6334-41.
4. Belzeaux R, Lin CW, Ding Y, Bergon A, Ibrahim EC, Turecki G, Tseng G, Sibille E. Predisposition to treatment response in major depressive episode: A peripheral blood gene coexpression network analysis. *J Psychiatr Res*. 2016 Oct;81:119-26.
5. Diniz BS, Lin CW, Sibille E, Tseng G, Lotrich F, Aizenstein HJ, Reynolds CF, Butters MA. Circulating biosignatures of late-life depression (LLD): Towards a comprehensive, data-driven approach to understanding LLD pathophysiology. *J Psychiatr Res*. 2016 Nov;82:1-7. PMID: PMC9344393
6. Grubisha MJ, Lin CW, Tseng GC, Penzes P, Sibille E, Sweet RA. Age-dependent increase in Kalirin-9 and Kalirin-12 transcripts in human orbitofrontal cortex. *Eur J Neurosci*. 2016 Oct;44(7):2483-2492. PMID: PMC5048532
7. Nikolova YS, Iruku SP, Lin CW, Conley ED, Puralewski R, French B, Hariri AR, Sibille E. FRAS1-related extracellular matrix 3 (FREM3) single-nucleotide polymorphism effects on gene expression, amygdala reactivity and perceptual processing speed: An accelerated aging pathway of depression risk. *Front Psychol*. 2015;6:1377. PMID: PMC4584966
8. McKinney BC, Lin CW, Oh H, Tseng GC, Lewis DA, Sibille E. Hypermethylation of BDNF and SST Genes

- in the Orbital Frontal Cortex of Older Individuals: A Putative Mechanism for Declining Gene Expression with Age. *Neuropsychopharmacology*. 2015 Oct;40(11):2604-13. PMID: PMC4569950
9. Lin CW, Chang LC, Tseng GC, Kirkwood CM, Sibille EL, Sweet RA. VSNL1 Co-Expression Networks in Aging Include Calcium Signaling, Synaptic Plasticity, and Alzheimer's Disease Pathways. *Front Psychiatry*. 2015;6:30. PMID: PMC4353182
 10. Chang LC, Jamain S, Lin CW, Rujescu D, Tseng GC, Sibille E. A conserved BDNF, glutamate- and GABA-enriched gene module related to human depression identified by coexpression meta-analysis and DNA variant genome-wide association studies. *PLoS One*. 2014;9(3):e90980. PMID: PMC3946570
 11. Yang HC, Lin CW, Chen CW, Chen JJ. Applying genome-wide gene-based expression quantitative trait locus mapping to study population ancestry and pharmacogenetics. *BMC Genomics*. 2014 Apr 29;15:319. PMID: PMC4236814
 12. Yang HC, Lin HC, Kang M, Chen CH, Lin CW, Li LH, Wu JY, Chen YT, Pan WH. SAQC: SNP array quality control. *BMC Bioinformatics*. 2011 Apr 18;12:100. PMID: PMC3101186
 13. Emura, T., Lin, C. W., & Wang, W.. A goodness-of-fit test for Archimedean copula models in the presence of right censoring *Computational Statistics and Data Analysis*. 2010 Apr 02; 54(12), 3033–3043.
 14. Yang HC, Wang PL, Lin CW, Chen CH, Chen CH. Integrative analysis of single nucleotide polymorphisms and gene expression efficiently distinguishes samples from closely related ethnic populations. *BMC Genomics*. 2012 Jul 28;13:346. PMID: PMC3453505
 15. Wang, B. C., Lin, C. W., Chen, K. T., & Chen, L. J. An analytical model for generalized ESP games. *Knowledge-based systems*. 2012 October; 34:114-127.
 16. Chowdhury TA, Kocejca C, Eisa-Beygi S, Kleinstiver BP, Kumar SN, Lin CW, Li K, Prabhudesai S, Joung JK, Ramchandran R. Temporal and Spatial Post-Transcriptional Regulation of Zebrafish *linc00901* mRNA by Long Noncoding RNA During Brain Vascular Assembly. *Arterioscler Thromb Vasc Biol*. 2018 Jul;38(7):1562-1575. PMID: PMC6023729
 17. Ma T, Huo Z, Kuo A, Zhu L, Fang Z, Zeng X, Lin CW, Liu S, Wang L, Liu P, Rahman T, Chang LC, Kim S, Li J, Park Y, Song C, Oesterreich S, Sibille E, Tseng GC. MetaOmics: analysis pipeline and browser-based software suite for transcriptomic meta-analysis. *Bioinformatics*. 2019 May 01;35(9):1597-1599. PMID: PMC6499246
 18. Chien-Wei Lin, Serena G. Liao, Peng Liu, Mei-Ling Ting Lee, Yong Seok Park, George C. Tseng. RNASeqDesign: a framework for ribonucleic acid sequencing genomewide power calculation and study design issues *Journal of the Royal Statistical Society. Series C, Applied statistics*. .
 19. McKinney BC, Lin CW, Rahman T, Oh H, Lewis DA, Tseng G, Sibille E. DNA methylation in the human frontal cortex reveals a putative mechanism for age-by-disease interactions. *Transl Psychiatry*. 2019 Jan 29;9(1):39. PMID: PMC6351569
 20. Liu P, Lin CW, Park Y, Tseng G. MethylSeqDesign: a framework for Methyl-Seq genome-wide power calculation and study design issues. *Biostatistics*. 2021 Jan 28;22(1):35-50. PMID: PMC7846147
 21. Samudrala SSK, North LM, Stamm KD, Earing MG, Frommelt MA, Willes R, Tripathi S, Dsouza NR, Zimmermann MT, Mahnke DK, Liang HL, Lund M, Lin CW, Geddes GC, Mitchell ME, Tomita-Mitchell A. Novel KLHL26 variant associated with a familial case of Ebstein's anomaly and left ventricular noncompaction. *Mol Genet Genomic Med*. 2020 Apr;8(4):e1152. PMID: PMC7196453
 22. Wu PK, Hong SK, Chen W, Becker AE, Gundry RL, Lin CW, Shao H, Gestwicki JE, Park JJ. Mortalin (HSPA9) facilitates BRAF-mutant tumor cell survival by suppressing ANT3-mediated mitochondrial membrane permeability. *Sci Signal*. 2020 Mar 10;13(622). PMID: PMC7099430
 23. Pan P, Zhu Z, Oshima K, Aldakkak M, Tsai S, Huang YW, Dong W, Zhang J, Lin CW, Wang Y, Yearsley M, Yu J, Wang LS. Black raspberries suppress pancreatic cancer through modulation of NKp46⁺, CD8⁺, and CD11b⁺ immune cells. *Food Front*. 2020 Mar;1(1):70-82. PMID: PMC7197210
 24. Lin, C.W., Chang, L. C., ..., Tseng, G. C., Sibille, E.. (2020). Older Molecular Brain Age in Severe Mental Illness. *Molecular Psychiatry*, In press.
 25. Zeng, X., Zong, W., Lin, C. W., Fang, Z., Ma, T., Lewis, D., Enwright, J., Tseng, G.C.. (2020). Comparative Pathway Integrator: a framework of meta-analytic integration of multiple transcriptomic studies for consensual and differential pathway analysis. *Genes*. In press.
 26. Li, Y., Zeng, X., Lin, C. W., Tseng, G.C.. Simultaneous Estimation of Number of Clusters and Feature Sparsity Parameter in Clustering High-Dimensional Data. *Biometrics*. Under revision.
 27. Zeng X, Zong W, Lin CW, Fang Z, Ma T, Lewis DA, Enwright JF, Tseng GC. Comparative Pathway Integrator: A Framework of Meta-Analytic Integration of Multiple Transcriptomic Studies for Consensual and Differential Pathway Analysis. *Genes (Basel)*. 2020 Jun 24;11(6). PMID:

PMC7348908

28. Lin CW, Chang LC, Ma T, Oh H, French B, Puralewski R, Mathews F, Fang Y, Lewis DA, Kennedy JL, Mueller D, Marshe VS, Jaffe A, Chen Q, Ursini G, Weinberger D, Newman AB, Lenze EJ, Nikolova YS, Tseng GC, Sibille E. Older molecular brain age in severe mental illness. *Mol Psychiatry*. 2021 Jul;26(7):3646-3656. PMID: PMC7785531
29. Gartz M, Lin CW, Sussman MA, Lawlor MW, Strande JL. Duchenne muscular dystrophy (DMD) cardiomyocyte-secreted exosomes promote the pathogenesis of DMD-associated cardiomyopathy. *Dis Model Mech*. 2020 Nov 13;13(11). PMID: PMC7673361
30. Huang YW, Lin CW, Pan P, Shan T, Echeveste CE, Mo YY, Wang HT, Aldakkak M, Tsai S, Oshima K, Yearsley M, Xiao J, Cao H, Sun C, Du M, Bai W, Yu J, Wang LS. Black Raspberries Suppress Colorectal Cancer by Enhancing Smad4 Expression in Colonic Epithelium and Natural Killer Cells. *Front Immunol*. 2020;11:570683. PMID: PMC7793748
31. Xin G, Chen Y, Topchyan P, Kasmani MY, Burns R, Volberding PJ, Wu X, Cohn A, Chen Y, Lin CW, Ho PC, Silverstein R, Dwinell MB, Cui W. Targeting PIM1-Mediated Metabolism in Myeloid Suppressor Cells to Treat Cancer. *Cancer Immunol Res*. 2021 Apr;9(4):454-469. PMID: PMC8137571
32. Huang YW, Lin CW, Pan P, Echeveste CE, Dong A, Oshima K, Yearsley M, Yu J, Wang LS. Dysregulated Free Fatty Acid Receptor 2 Exacerbates Colonic Adenoma Formation in *Apc^{Min/+}* Mice: Relation to Metabolism and Gut Microbiota Composition. *J Cancer Prev*. 2021 Mar 30;26(1):32-40. PMID: PMC8020170
33. Li Y, Zeng X, Lin CW, Tseng GC. Simultaneous estimation of cluster number and feature sparsity in high-dimensional cluster analysis. *Biometrics*. 2022 Jun;78(2):574-585.
34. Lin CW, Liao SG, Liu P, Park YS, Lee MT, Tseng GC. RNASeqDesign: A framework for RNA-Seq genome-wide power calculation and study design issues. *J R Stat Soc Ser C Appl Stat*. 2019 Apr;68(3):683-704. PMID: PMC7941184
35. Huang YW, Pan P, Echeveste CE, Wang HT, Oshima K, Lin CW, Yearsley M, Xiao J, Chen J, Sun C, Yu J, Wang LS. Transplanting fecal material from wild-type mice fed black raspberries alters the immune system of recipient mice. *Food Front*. 2020 Sep;1(3):253-259. PMID: PMC8301209
36. Wang S, Lin CW, Carleton AE, Cortez CL, Johnson C, Taniguchi LE, Sekulovski N, Townshend RF, Basrur V, Nesvizhskii AI, Zou P, Fu J, Gumucio DL, Duncan MC, Taniguchi K. Spatially resolved cell polarity proteomics of a human epiblast model. *Sci Adv*. 2021 Apr;7(17). PMID: PMC8064645
37. Cieccko AE, Schauder DM, Foda B, Petrova G, Kasmani MY, Burns R, Lin CW, Drobyski WR, Cui W, Chen YG. Self-Renewing Islet TCF1⁺ CD8 T Cells Undergo IL-27-Controlled Differentiation to Become TCF1⁻ Terminal Effectors during the Progression of Type 1 Diabetes. *J Immunol*. 2021 Oct 15;207(8):1990-2004. PMID: PMC8492517
38. Huang YW, Mo YY, Echeveste CE, Oshima K, Zhang J, Yearsley M, Lin CW, Yu J, Liu P, Du M, Sun C, Xiao J, Wang LS. Black raspberries attenuate colonic adenoma development in *Apc^{Min/+}* mice: Relationship to hypomethylation of promoters and gene bodies. *Food Front*. 2020 Sep;1(3):234-242. PMID: PMC8457619
39. Fang S, Wu J, Reho JJ, Lu KT, Brozoski DT, Kumar G, Werthman AM, Silva SD Jr, Muskus Veitia PC, Wackman KK, Mathison AJ, Teng BQ, Lin CW, Quelle FW, Sigmund CD. RhoBTB1 reverses established arterial stiffness in angiotensin II-induced hypertension by promoting actin depolymerization. *JCI Insight*. 2022 May 09;7(9). PMID: PMC9090250
40. Vedi M, Nalabolu HS, Lin CW, Hoffman MJ, Smith JR, Brodie K, De Pons JL, Demos WM, Gibson AC, Hayman GT, Hill ML, Kaldunski ML, Lamers L, Laulederkind SJF, Thorat K, Thota J, Tutaj M, Tutaj MA, Wang SJ, Zacher S, Dwinell MR, Kwitek AE. MOET: a web-based gene set enrichment tool at the Rat Genome Database for multiontology and multispecies analyses. *Genetics*. 2022 Apr 04;220(4). PMID: PMC8982048
41. Dong A, Lin CW, Echeveste CE, Huang YW, Oshima K, Yearsley M, Chen X, Yu J, Wang LS. Protocatechuic Acid, a Gut Bacterial Metabolite of Black Raspberries, Inhibits Adenoma Development and Alters Gut Microbiome Profiles in *Apc^{Min/+}* Mice. *J Cancer Prev*. 2022 Mar 30;27(1):50-57. PMID: PMC8984655
42. Zenga J, Atkinson S, Yen T, Massey B, Stadler M, Bruening J, Peppard W, Reuben M, Hayward M, Mesich B, Buchan B, Ledebor N, Sanchez JL, Fraser R, Lin CW, Holtz ML, Awan M, Wong SJ, Puram SV, Salzman N. A phase 2 trial of a topical antiseptic bundle in head and neck cancer surgery: Effects on surgical site infection and the oral microbiome. *EBioMedicine*. 2022 Jul;81:104099. PMID: PMC9168040
43. Dong A, Pan X, Lin CW, Huang YW, Krause H, Pan P, Baim A, Thomas MJ, Chen X, Yu J, Michaelis L,

- Liu P, Wang LS, Atallah E. A Pilot Clinical Study to Investigate the Hypomethylating Properties of Freeze-dried Black Raspberries in Patients with Myelodysplastic Syndrome or Myeloproliferative Neoplasm. *J Cancer Prev.* 2022 Jun 30;27(2):129-138. PMID: PMC9271408
44. Khatun A, Kasmani MY, Zander R, Schauder DM, Snook JP, Shen J, Wu X, Burns R, Chen YG, Lin CW, Williams MA, Cui W. Single-cell lineage mapping of a diverse virus-specific naive CD4 T cell repertoire. *J Exp Med.* 2021 Mar 01;218(3). PMID: PMC7676493
45. Ciecko AE, Wang Y, Harleston S, Drewek A, Serreze DV, Geurts AM, Lin CW, Chen YG. Heterogeneity of Islet-Infiltrating IL-21+ CD4 T Cells in a Mouse Model of Type 1 Diabetes. *J Immunol.* 2023 Apr 01;210(7):935-946. PMID: PMC10483376
46. Alvarez-Argote S, Paddock SJ, Flinn MA, Moreno CW, Knas MC, Almeida VA, Buday SL, Bakhshian Nik A, Patterson M, Chen YG, Lin CW, O'Meara CC. IL-13 promotes functional recovery after myocardial infarction via direct signaling to macrophages. *JCI Insight.* 2024 Jan 23;9(2). PMID: PMC10906228
47. Jing X, Jia S, Teng M, Day BW, Afolayan AJ, Jarzembowski JA, Lin CW, Hessner MJ, Pritchard KA Jr, Naylor S, Konduri GG, Teng RJ. Cellular Senescence Contributes to the Progression of Hyperoxic Bronchopulmonary Dysplasia. *Am J Respir Cell Mol Biol.* 2024 Feb;70(2):94-109.
48. Kasmani MY, Topchyan P, Brown AK, Brown RJ, Wu X, Chen Y, Khatun A, Alson D, Wu Y, Burns R, Lin CW, Kudek MR, Sun J, Cui W. A spatial sequencing atlas of age-induced changes in the lung during influenza infection. *Nat Commun.* 2023 Oct 18;14(1):6597. PMID: PMC10584893
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