***Curriculum vitae***

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| --- |
| **Date Prepared:** 06/13/2022 |
| **Name:** Ling Cai |
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| **Work Phone:** 214/697-5362 |
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**Education**

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| --- | --- | --- | --- |
| Year | Degree  (Honors) | Field of Study  (Thesis advisor for PhDs) | Institution |
| 06/2008 | B.Sc. | Biochemistry | The Hong Kong University of Science and Technology, Hong Kong |
| 10/2013 | Ph.D. | Integrative Biology,  Mechanism of Disease | University of Texas Southwestern Medical Center, USA |

**Postdoctoral Training**

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| --- | --- | --- | --- |
| Year(s) | Titles | Specialty/Discipline  (Lab PI for postdoc research) | Institution |
| 09/2014 -- 07/2016 | Post-doc | Guanghua Xiao, Ralph DeBerardinis | University of Texas Southwestern Medical Center, USA |

**Current Licensure and Certification**

Licensure

Board and Other Certification

**Honors and Awards**

|  |  |  |
| --- | --- | --- |
| Year | Name of Honor/Award | Awarding Organization |
| **2008** | **Chiap Hua Cheng's Foundation Scholarship** | **Chiap Hua Cheng's Foundation** |
| **2008** | **Academic Achievement Medal** | The Hong Kong University of Science and Technology |
| **2010** | **Sara and Frank McKnight Fellowship** | Dr. Steven McKnight, Department of Biochemistry, UTSouthwestern Medical Center |
| **2015** | **American Association for Cancer Research Basic Research Fellowship** | American Association for Cancer Research |

**Faculty Academic Appointments**

|  |  |  |  |
| --- | --- | --- | --- |
| Year(s) | Academic Title | Department | Academic Institution |
| 2020 | Assistant Professor | Population and Data Sciences | UT Southwestern Medical Center |

**Appointments at Hospitals/Affiliated Institutions**

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| --- | --- | --- | --- | --- |
| Past | | | | |
| Year(s) | Position Title | Department/Division | | Institution |
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| Current | | | | |
| Year(s) | Position Title | | Department/Division | Institution |
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**Other Professional Positions**

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| Year(s) | Position Title | Institution |
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**Major Administrative/Leadership Positions**

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| --- | --- | --- |
| Year(s) | Position Title | Institution |
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**Committee Service (***Member, unless noted otherwise)*

|  |  |  |
| --- | --- | --- |
| Year(s) | Name of Committee | Institution/Organization |
| UTSW | | |
|  |  |  |
|  |  |  |
| Hospital | | |
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| State/Regional | | |
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|  |  |  |
| National/International | | |
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**Professional Societies**

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| --- | --- |
| Dates | Society Name, member |
|  |  |
|  | Committees |
|  |  |
|  | Fellowships |
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**Grant Review Activities**

|  |  |  |
| --- | --- | --- |
| Year(s) | Name of Review Committee | Organization |
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**Editorial Activities**

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| --- | --- |
| Year(s) | Journal Name |
| Editor/Associate Editor | |
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| Editorial Board | |
|  |  |
|  |  |
| Ad Hoc Reviewer | |
| Before 2021 | *BMC Biology, Cancer & Metabolism, Cancer Letters, Molecular Systems Biology, Oncogene, International Journal of Biological Sciences, Nucleic Acids Research* |
| 2021 | *BMC Supplements, Current Protocols, Frontiers in Cell and Developmental Biology, Communications Biology* |
| 2022 | *International Journal of Endocrine Oncology, Cancer Communications, BMC Supplements, Molecular Systems Biology, BMC Bioinformatics, Cancers, BMC Cancer, Frontiers in Genetics, Oncogene, Clinical Epigenetics* |
| 2023 | *Frontiers in Oncology, Cancer Cell International* |

**Grant Support**

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| --- | --- |
| Present | *Grantor:* UTSW ACS-IRG (IRG-21-142-16) |
|  | *Title of Project:* Assembling Historical Mouse Model Data for Lung Cancer Research |
|  | *Role (Principal Investigator, Co-Investigator): Principal Investigator* |
|  | *Annual amount and date (direct costs only):* 40,000, 4/1/2022 - 3/31/2023 |
|  | *Total amount of award (if multi-year) and dates (direct costs only):* 40,000, 4/1/2022 - 3/31/2023 |
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| Past | *Grantor:* Lung Cancer SPORE Career Enhancement Program award from P50CA70907 |
|  | *Title of Project:* Establishing lung cancer preclinical models to study the role of cancer-expressed kynureninase in immunometabolism |
|  | *Role (Principal Investigator, Co-Investigator): Principal Investigator* |
|  | *Annual amount and date (direct costs only):* 25,000, 9/1/2021 - 8/31/2022 |
|  | *Total amount of award (if multi-year) and dates (direct costs only):*25,000, 9/1/21 - 8/31/22 |
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**Clinical Trials Activities**

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| --- | --- |
| Present | *Grantor:* |
|  | *Title of Project:* |
|  | *Role (Principal Investigator, Co-Investigator):* |

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| --- | --- |
| Past | *Grantor:* |
|  | *Title of Project:* |
|  | *Role (Principal Investigator, Co-Investigator):* |

**Teaching Activities**

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| Year(s) | Activity |
| Medical and graduate school didactic and small group teaching | |
|  |  |
|  |  |
| Dissertation committees | |
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| Qualifying examination committees | |
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|  |  |
| Committees concerned with medical and graduate student education | |
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| Graduate student rotations | |
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|  |  |
| Medical student rotations | |
|  |  |
|  |  |
| Graduate student trainees | |
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| Postgraduate medical education (graduate & continuing medical education) | |
|  |  |
|  |  |
| Postdoctoral trainees | |
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**Invited Lectures**

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| Year(s) | Title | Location |
| International | | |
|  |  |  |
|  |  |  |
| National | | |
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|  |  |  |
| Regional/Local | | |
| 2020 | Relationship Between Neuroendocrine and Immune Gene Expression in Small Cell Lung Cancer | Hamon Center Lecture (Zoom) |
| 2022 | Transfer Learning from Small Cell Lung Cancer | Hamon Center Lecture (Zoom) |

**Technological and Other Scientific Innovations**

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| --- |
| Innovation |
| Patent, if any, pending or awarded /If described in print/on web, provide citation |

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**Service to the Community**

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| --- | --- | --- |
| Year(s) | Role | Organization or institution |
| May include a brief, one-sentence description of each role if needed (optional) | | |

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**Bibliography**

**Peer-Reviewed Publications**

Original Research Articles

1. Cai L, Sutter BM, Li B, Tu BP. [Acetyl-CoA induces cell growth and proliferation by promoting the acetylation of histones at growth genes.](https://www.ncbi.nlm.nih.gov/pubmed/21596309/)Mol Cell. 2011 May 20;42(4):426-37. doi: 10.1016/j.molcel.2011.05.004. PubMed PMID: 21596309; PubMed Central PMCID: PMC3109073.
2. Zhang L, Das P, Schmolke M, Manicassamy B, Wang Y, Deng X, Cai L, Tu BP, Forst CV, Roth MG, Levy DE, García-Sastre A, de Brabander J, Phillips MA, Fontoura BM. [Inhibition of pyrimidine synthesis reverses viral virulence factor-mediated block of mRNA nuclear export.](https://www.ncbi.nlm.nih.gov/pubmed/22312003/)J Cell Biol. 2012 Feb 6;196(3):315-26. doi: 10.1083/jcb.201107058. PubMed PMID: 22312003; PubMed Central PMCID: PMC3275370.
3. Marin-Valencia I, Yang C, Mashimo T, Cho S, Baek H, Yang XL, Rajagopalan KN, Maddie M, Vemireddy V, Zhao Z, Cai L, Good L, Tu BP, Hatanpaa KJ, Mickey BE, Matés JM, Pascual JM, Maher EA, Malloy CR, Deberardinis RJ, Bachoo RM. [Analysis of tumor metabolism reveals mitochondrial glucose oxidation in genetically diverse human glioblastomas in the mouse brain in vivo.](https://www.ncbi.nlm.nih.gov/pubmed/22682223/)Cell Metab. 2012 Jun 6;15(6):827-37. doi: 10.1016/j.cmet.2012.05.001. PubMed PMID: 22682223; PubMed Central PMCID: PMC3372870.
4. Cai L, McCormick MA, Kennedy BK, Tu BP. [Integration of multiple nutrient cues and regulation of lifespan by ribosomal transcription factor Ifh1.](https://www.ncbi.nlm.nih.gov/pubmed/24035395/)Cell Rep. 2013 Sep 26;4(6):1063-71. doi: 10.1016/j.celrep.2013.08.016. Epub 2013 Sep 12. PubMed PMID: 24035395; PubMed Central PMCID: PMC3792855.
5. Kuang Z, Cai L, Zhang X, Ji H, Tu BP, Boeke JD. [High-temporal-resolution view of transcription and chromatin states across distinct metabolic states in budding yeast.](https://www.ncbi.nlm.nih.gov/pubmed/25173176/)Nat Struct Mol Biol. 2014 Oct;21(10):854-63. doi: 10.1038/nsmb.2881. Epub 2014 Aug 31. PubMed PMID: 25173176; PubMed Central PMCID: PMC4190017.
6. Comerford SA, Huang Z, Du X, Wang Y, Cai L, Witkiewicz AK, Walters H, Tantawy MN, Fu A, Manning HC, Horton JD, Hammer RE, McKnight SL, Tu BP. [Acetate dependence of tumors.](https://www.ncbi.nlm.nih.gov/pubmed/25525877/)Cell. 2014 Dec 18;159(7):1591-602. doi: 10.1016/j.cell.2014.11.020. PubMed PMID: 25525877; PubMed Central PMCID: PMC4272450.
7. Lee S, Liang F, Cai L, Xiao G. [Integrative Analysis of Gene Networks and Their Application to Lung Adenocarcinoma Studies.](https://www.ncbi.nlm.nih.gov/pubmed/28469387/)Cancer Inform. 2017;16:1176935117690778. doi: 10.1177/1176935117690778. eCollection 2017. PubMed PMID: 28469387; PubMed Central PMCID: PMC5392014.
8. Kim J, Hu Z, Cai L, Li K, Choi E, Faubert B, Bezwada D, Rodriguez-Canales J, Villalobos P, Lin YF, Ni M, Huffman KE, Girard L, Byers LA, Unsal-Kacmaz K, Peña CG, Heymach JV, Wauters E, Vansteenkiste J, Castrillon DH, Chen BPC, Wistuba I, Lambrechts D, Xu J, Minna JD, DeBerardinis RJ. [CPS1 maintains pyrimidine pools and DNA synthesis in KRAS/LKB1-mutant lung cancer cells.](https://www.ncbi.nlm.nih.gov/pubmed/28538732/)Nature. 2017 Jun 1;546(7656):168-172. doi: 10.1038/nature22359. Epub 2017 May 24. PubMed PMID: 28538732; PubMed Central PMCID: PMC5472349.
9. Zhang Y, Udayakumar D, Cai L, Hu Z, Kapur P, Kho EY, Pavía-Jiménez A, Fulkerson M, de Leon AD, Yuan Q, Dimitrov IE, Yokoo T, Ye J, Mitsche MA, Kim H, McDonald JG, Xi Y, Madhuranthakam AJ, Dwivedi DK, Lenkinski RE, Cadeddu JA, Margulis V, Brugarolas J, DeBerardinis RJ, Pedrosa I. [Addressing metabolic heterogeneity in clear cell renal cell carcinoma with quantitative Dixon MRI.](https://www.ncbi.nlm.nih.gov/pubmed/28768909/)JCI Insight. 2017 Aug 3;2(15). doi: 10.1172/jci.insight.94278. eCollection 2017 Aug 3. PubMed PMID: 28768909; PubMed Central PMCID: PMC5543910.
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17. Cai L, Lin S, Girard L, Zhou Y, Yang L, Ci B, Zhou Q, Luo D, Yao B, Tang H, Allen J, Huffman K, Gazdar A, Heymach J, Wistuba I, Xiao G, Minna J, Xie Y. [LCE: an open web portal to explore gene expression and clinical associations in lung cancer.](https://www.ncbi.nlm.nih.gov/pubmed/30532070/)Oncogene. 2019 Apr;38(14):2551-2564. doi: 10.1038/s41388-018-0588-2. Epub 2018 Dec 7. PubMed PMID: 30532070; PubMed Central PMCID: PMC6477796.
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Reviews, Chapters, Monographs and Editorials

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2. Cai L, Tu BP. [Acetyl-CoA drives the transcriptional growth program in yeast.](https://www.ncbi.nlm.nih.gov/pubmed/21869612/)Cell Cycle. 2011 Sep 15;10(18):3045-6. doi: 10.4161/cc.10.18.17000. Epub 2011 Sep 15. PubMed PMID: 21869612; PubMed Central PMCID: PMC3218616.
3. Cai L, Tu BP. [Driving the cell cycle through metabolism.](https://www.ncbi.nlm.nih.gov/pubmed/22578140/)Annu Rev Cell Dev Biol. 2012;28:59-87. doi: 10.1146/annurev-cellbio-092910-154010. Epub 2012 May 11. Review. PubMed PMID: 22578140; NIHMSID:NIHMS387911.
4. Huang Z, Cai L, Tu BP. [Dietary control of chromatin.](https://www.ncbi.nlm.nih.gov/pubmed/26094239/)Curr Opin Cell Biol. 2015 Jun;34:69-74. doi: 10.1016/j.ceb.2015.05.004. Epub 2015 Jun 19. Review. PubMed PMID: 26094239; PubMed Central PMCID: PMC4597913.
5. Cai, L., G. Xiao, D. Gerber, D. M. J and Y. Xie (2022). "Lung Cancer Computational Biology and Resources." Cold Spring Harb Perspect Med 12(2).

Books/Textbooks

Case Reports

Letters to the Editor

Proceedings of Meetings

1. L Cai, TJ Rogers, H Li, J Kim, Y Xie, G Xiao, J Minna, RJ DeBerardinis. KYNU expression is a prognostic factor in KEAP1/STK11 co-mutated lung adenocarcinoma. Cancer Research 81 (13 Supplement), 871-871

Clinical Practice Guidelines

**Non-peer reviewed scientific or medical publications/materials in print or other media**

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