

Curriculum vitae

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Education

Year	Degree	Field of Study	Institution
1983-1989	M.D.	Medicine	Beijing Medical University
1993-1998	Ph. D.	Medicine	Tohoku University, Sendai, Japan

Postdoctoral Training

Year(s)	Titles	Specialty/Discipline	Institution
1989-1993	Resident	General Surgery	Cancer Hospital, Chinese Academy of Medical Sciences
1999-2001	Post-doc	Cancer Biology	RIKEN, Gene Bank, Cell Bank, Tsukuba, Japan
2001-2005	Post-doc	Biophysics and Bioinformatics	Lawrence Berkeley National Laboratory

Current Licensure and Certification

Certified Bioinformatics Specialist
IBM Professional Data Science Certificate

Honors and Awards

Year	Name of Honor/Award	Awarding Organization
2005	Radiation Research award	Gordon Conference of Radiation Oncology

Professional Experience

Year(s)	Academic Title	Department	Academic Institution
2005	Instructor	Radiation Oncology	UT Southwestern Medical Center

2005	Instructor	Cancer Center Genomics Core	UT Southwestern Medical Center
2015	Assistant Professor	Radiation Oncology	UT Southwestern Medical Center
2023	Bioinformatic Analyst	Center of Biomedical Research	UT Tyler Health Science Center

Professional Societies

Dates	Society Name, member
2022	Radiation Research Society
2022	International Society for Computational Biology

Grant Support

2018-2024	<i>Grantor: NASA</i>
	<i>Title of Project: Determining Gender Differences in the Incidence of Lung Adenocarcinoma After Space Radiation Exposure</i>
	<i>Role: Co-investigator</i>

Teaching Activities

Year(s)	Activity
2010-2012	NCI-sponsored Summer Institute Program to Increase Diversity (SIPID)

Bibliography

Peer-Reviewed Publications

1. Moreno-Villanueva M, Jimenez-Chavez LE, Krieger S, Ding LH, Zhang Y, Babiak-Vazquez A, Berres M, Splinter S, Pauken KE, Schaefer BC, Crucian BE, Wu H. Transcriptomics analysis reveals potential mechanisms underlying mitochondrial dysfunction and T cell exhaustion in

- astronauts' blood cells in space. *Front Immunol.* 2025 Jan 20;15:1512578. doi: 10.3389/fimmu.2024.1512578. PMID: 39902046; PMCID: PMC11788081.
2. Sishc BJ, Saha J, Alves EM, Ding L, Lu H, Wang SY, Swancutt KL, Nicholson JH, Facoetti A, Pompos A, Ciocca M, Aguilera TA, Story MD, Davis AJ. Defective homologous recombination and genomic instability predict increased responsiveness to carbon ion radiotherapy in pancreatic cancer. *NPJ Precis Oncol.* 2025 Jan 17;9(1):20. doi: 10.1038/s41698-025-00800-4. PMID: 39824957; PMCID: PMC11742413.
 3. Karanam NK, Ding L, Vo DT, Giri U, Yordy JS, Story MD. miR-551a and miR-551b-3p target GLIPR2 and promote tumor growth in high-risk head and neck cancer by modulating autophagy. *Advances in Cancer Biology – Metastasis.* 2023 Jul;7. doi: 10.1016/j.adcanc.2022.100085.
 4. Ding LH, Fallgren CM, Yu Y, McCarthy M, Edmondson EF, Ullrich RL, Weil MM, Story MD. Orthologs of human circulating miRNAs associated with hepatocellular carcinoma are elevated in mouse plasma months before tumour detection. *Sci Rep.* 2022 Jun 28;12(1):10927. doi: 10.1038/s41598-022-15061-5.
 5. Ding L, Sishc BJ, Polsdofer E, Yordy JS, Facoetti A, Ciocca M, Saha D, Pompos A, Davis AJ, Story MD. Evaluation of the Response of HNSCC Cell Lines to γ -Rays and 12C Ions: Can Radioresistant Tumors Be Identified and Selected for 12C Ion Radiotherapy? *Front Oncol.* 2022 Feb 25;12:812961. doi: 10.3389/fonc.2022.812961. eCollection 2022. PMID: 35280731
 6. Minnier J, Emmett MR, Perez R, Ding LH, Barnette BL, Larios RE, Hong C, Hwang TH, Yu Y, Fallgren CM, Story MD, Weil MM, Raber J. Associations between lipids in selected brain regions, plasma miRNA, and behavioral and cognitive measures following ^{28}Si ion irradiation. *Sci Rep.* 2021 Jul 21;11(1):14899. doi: 10.1038/s41598-021-93869-3. PMID: 34290258.
 7. Ding LH, Yu Y, Edmondson EF, Weil MM, Pop LM, McCarthy M, Ullrich RL, Story MD. Transcriptomic analysis links hepatocellular carcinoma (HCC) in HZE ion irradiated mice to a human HCC subtype with favorable outcomes. *Sci Rep.* 2021 Jul 7;11(1):14052. doi: 10.1038/s41598-021-93467-3. PMID: 34234215.
 8. Sishc BJ, Ding L, Nam TK, Heer CD, Rodman SN, Schoenfeld JD, Fath MA, Saha D, Pulliam CF, Langen B, Beardsley RA, Riley DP, Keene JL, Spitz DR, Story MD. Avasopasem manganese synergizes with hypofractionated radiation to ablate tumors through the generation of hydrogen peroxide. *Sci Transl Med.* 2021 May 12;13(593):eabb3768. doi: 10.1126/scitranslmed.abb3768. PMID: 33980575.

9. Balachandra S, Kusin SB, Lee R, Blackwell JM, Tiro JA, Cowell LG, Chiang CM, Wu SY, Varma S, Rivera EL, Mayo HG, Ding L, Sumer BD, Lea JS, Bagrodia A, Farkas LM, Wang R, Fakhry C, Dahlstrom KR, Sturgis EM, Day AT. Blood-based biomarkers of human papillomavirus-associated cancers: A systematic review and meta-analysis. *Cancer*. doi: 10.1002/cncr.33221. Epub 2020 Dec 3.
1. Karanam NK, Ding L, Aroumougame A, Story MD. Tumor treating fields cause replication stress and interfere with DNA replication fork maintenance: Implications for cancer therapy. *Transl Res*. 2020 Mar;217:33-46. doi: 10.1016/j.trsl.2019.10.003. Epub 2019 Oct 21. PMID: 31707040.
2. Vo DT, Karanam NK, Ding L, Saha D, Yordy JS, Giri U, Heymach JV, Story MD. miR-125a-5p Functions as Tumor Suppressor microRNA And Is a Marker of Locoregional Recurrence And Poor prognosis in Head And Neck Cancer. *Neoplasia*. 2019 Jul 17;21(9):849-862. doi: 10.1016/j.neo.2019.06.004.
3. Saki M, Makino H, Javvadi P, Tomimatsu N, Ding L, Clark JE, Gavin E, Takeda K, Andrews J, Saha D, Story MD, Burma S, Nirodi C. EGFR Mutations Compromise Hypoxia-associated Radiation Resistance Through Impaired Replication Fork-associated DNA Damage Repair. *Mol Cancer Res*. 2017 Aug 11. pii: molcanres.0136.2017. doi: 10.1158/1541-7786.MCR-17-0136. [Epub ahead of print] PubMed PMID: 28801308.
4. Karanam NK, Srinivasan K, Ding L, Sishc B, Saha D, Story MD. Tumor-treating fields elicit a conditional vulnerability to ionizing radiation via the downregulation of BRCA1 signaling and reduced DNA double-strand break repair capacity in non-small cell lung cancer cell lines. *Cell Death Dis*. 2017 Mar 30;8(3):e2711. doi: 10.1038/cddis.2017.136. PubMed PMID: 28358361; PubMed Central PMCID: PMC5386539.
5. Liu L, Pertsemlidis A, Ding LH, Story MD, Steinberg MH, Sebastiani P, Hoppe C, Ballas SK, Pace BS. A case-control genome-wide association study identifies genetic modifiers of fetal hemoglobin in sickle cell disease. *Exp Biol Med (Maywood)*. 2016 Mar 27. pii: 1535370216642047. [Epub ahead of print] PubMed PMID: 27022141.
6. Ding LH, Park S, Xie Y, Girard L, Minna JD, Story MD. Elucidation of changes in molecular signaling leading to increased cellular transformation in oncogenically progressed human bronchial epithelial cells exposed to radiations of increasing LET. *Mutagenesis*. 2015 May 22. pii: gev028. [Epub ahead of print] PubMed PMID: 26001755.

7. Li B, Ding L, Yang C, Kang B, Liu L, Story MD, Pace BS. Characterization of Transcription Factor Networks Involved in Umbilical Cord Blood CD34+ Stem Cells-Derived Erythropoiesis. PLoS One. 2014 Sep 11;9(9):e107133. doi: 10.1371/journal.pone.0107133. eCollection 2014.
8. Genik PC, Bielefeldt-Ohmann H, Liu X, Story MD, Ding L, Bush JM, Fallgren CM, Weil MM. Strain background determines lymphoma incidence in atm knockout mice. Neoplasia. 2014 Feb;16(2):129-IN7. doi: 10.1593/neo.131980.
9. Ghayee HK, Bhagwandin VJ, Stastny V, Click A, Ding LH, Mizrachi D, Zou YS, Chari R, Lam WL, Bachoo RM, Smith AL, Story MD, Sidhu S, Robinson BG, Nwariaku FE, Gazdar AF, Auchus RJ, Shay JW. Progenitor Cell Line (hPheo1) Derived from a Human Pheochromocytoma Tumor. PLoS One. 2013 Jun 13;8(6):e65624. doi: 10.1371/journal.pone.0065624. Print 2013.
10. Ding LH, Park S, Peyton M, Girard L, Xie Y, Minna JD, Story MD. Distinct transcriptome profiles identified in normal human bronchial epithelial cells after exposure to gamma-rays and different elemental particles of high Z and energy. BMC Genomics. 2013 Jun 1;14(1):372. doi: 10.1186/1471-2164-14-372.
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15. Asaithamby A, Hu B, Delgado O, Ding LH, Story MD, Minna JD, Shay JW, Chen DJ. Irreparable complex DNA double-strand breaks induce chromosome breakage in organotypic three-dimensional human lung epithelial cell culture. Nucleic Acids Res. 2011 Mar 18. PubMed PMID: 21421565.
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- Role of IKK{alpha} as a Tumor Suppressor. *Mol Cancer Res.* 2011 Mar;9(3):341-9. Epub 2011 Feb 11. PubMed PMID: 21317297; PubMed Central PMCID: PMC3072035.
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 24. Ding L., Stilwell J., Zhang T., Elboudwarej O., Jiang H., Selegue J. P., Cooke P. A., Alivisatos A. P., Gray J. W., Chen F. F.. Molecular characterization of the cytotoxic mechanism of multiwall carbon nanotubes and nano-onions on human skin fibroblast. *Nano Letter.* 5(12); 2448-2464, 2005.

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26. Ding L. H., Shingyoji M., Chen F. Hwang J. J., Burma S., Lee C., Cheng J. J., Chen D. J.. Gene Expression Profiles of Normal Human Fibroblasts After Ionizing Radiation: A Comparative Study of Low and High Doses. *Radiation Research*. 164(1):17-26, 2005.
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29. Motoi F., Sunamura M., Ding L., Duda D., etc. Effective gene therapy for Pancreatic cancer by cytokines mediated by restricted replication-competent adenovirus. *Human Gene Therapy*. 11:223-335, 2000.
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34. Ding L., Sunamura M., Kodama T., etc. Metastatic process of cancer cells in the liver. *Microcirculation Annual*. 13: 49-50, 1997, Aug.