

CURRICULUM VITAE

Masako SUZUKI, D.V.M., Ph.D., M.S.

ADDRESS

Department of Nutrition, Carter Mattil Hall 214A
Texas A&M University
2253 TAMU
College Station, TX 77840, USA

Tel: 979-847-8714

e-mail: masako.suzuki@ag.tamu.edu

Website: <https://suzukilab.org/>

NCBI

My

Bibliography:

<http://www.ncbi.nlm.nih.gov/sites/myncbi/masako.suzuki.1/bibliography/43270174/public/?sort=date&direction=descending>

EDUCATION

- 1992-1998 D.V.M, Iwate University, Iwate, Japan
Field: Purification and identification of chitin-binding proteins in horse serum (Mentor: Dr. Bunei Syuto)
- 1998-2002 Ph.D (Veterinary Sciences) The United Graduate School of Veterinary Sciences, Gifu University, Gifu, Japan
Field: Studies on the Structure and Function of Chitin Binding Proteins in Serum (Mentor: Dr. Bunei Syuto)
- 2012-2014 Master of Science Degree in Clinical Research Methods, Clinical Research Training Program, The Einstein/Montefiore Institute for Clinical and Translational Research (ICTR), Albert Einstein College of Medicine of Yeshiva University, Bronx, NY
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POSTGRADUATE TRAINING

- 2002-2005 Post-doctoral Fellow, Laboratory of Cellular Biochemistry, Veterinary Medical Sciences/Animal Resource Sciences, The University of Tokyo, Tokyo, Japan.
- 2005-2008 Research Associate, Departments of Medicine, Division of Hematology, Albert Einstein College of Medicine of Yeshiva University, Bronx, NY
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PROFESSIONAL EMPLOYMENT

- 2008.6.1-2010.12.1 Associate (Research-track), Department of Genetics, Center for Epigenomics, Albert Einstein College of Medicine of Yeshiva University, Bronx, NY
- 2010.12.1-2012.6.30 Instructor (Research-track), Department of Genetics, Center for Epigenomics, Albert Einstein College of Medicine of Yeshiva University, Bronx, NY

2012.7.1-2020.6.30	Research Assistant Professor (Research-track), Department of Genetics, Center for Epigenomics, Albert Einstein College of Medicine of Yeshiva University, Bronx, NY
2020.7.1-2023.2.14	Assistant Professor (Tenure-track), Department of Genetics, Albert Einstein College of Medicine, Bronx, NY
2021.7.1- 2023.2.14	Associate Director, Neurogenomics (NGEN) Core, Rose F. Kennedy Intellectual and Developmental Disabilities Research Center, Albert Einstein College of Medicine, Bronx, NY
2023.2.15 - present	Adjunct Assistant Professor, Department of Genetics, Albert Einstein College of Medicine, Bronx, NY
2023.2.15 - present	Assistant Professor (Tenure-track), Department of Nutrition, Texas A&M University, College Station, TX

PROFESSIONAL SOCIETIES

1996-2002	Student member, the Japanese Society of Veterinary Sciences
2002-2019, 2023-	Member, the Japanese Society of Veterinary Sciences
2018-	Member, Molecular Biology Society of Japan
2016-2019	Member, Japanese Medical Society of America
2016-	Member, The Japanese Society for Epigenetics

HONOURS AND AWARDS

1998	Sasagawa Science Research Grant Award, The Japan Science Society
2012	Mentored Clinical/Translational Research Career Development Award
2013	Scholar Abstract Award, Translational Science 2013
2014	Burroughs-Wellcome Fund Travel Award
2016	Einstein-Montefiore Young Research Investigators Symposium Prize
2017	Mishima Kaiun Memorial Foundation Award

OTHER PROFESSIONAL ACTIVITIES

2015	Associate Scientific Advisor 2015 for <i>Science Translational Medicine</i>
2016-present	Mutation Research - Fundamental and Molecular Mechanisms of Mutagenesis Editorial Board, Elsevier
2020	Frontiers Cell and Developmental Biology, Guest Editor
2020-present	Genes, Academic Editor
2022	Frontiers Cell and Developmental Biology, Guest Editor
2023	National Advisory Mental Health Council Workgroup on High Dimensional Datasets, Workgroup member

Institutional activities

Albert Einstein College of Medicine

- 2017-2023 Institutional Animal Care and Use Committee (IACUC), Full review committee member
 2021-2023 Institutional Ph.D. Admission Committee, Albert Einstein College of Medicine, Committee member

Peer reviewer

Grants:

- 2016 Ad hoc Reviewer: Veni grant within the Innovational Research Incentives Scheme of Netherlands, Organization for Scientific Research
 2019 Ad hoc Reviewer: Swiss National Science Foundation (SNSF)
 2020 Ad hoc Reviewer: NIH, Genetics of health and disease study section (GHD)
 2021 Ad hoc Reviewer: Rosetrees Trust (UK)

Peer Review Articles in the following scientific journals:

Aging Cell, BMC Genomics, Briefings in Functional Genomics, Computational Epigenomics and Disease, Epigenomics, Experimental and Molecular Pathology, Genome Research, Handbook of Epigenetics, Second Edition, Molecular Autism, Mutation Research, Nature Communications, Nucleic Acids Research, Nutrition, PLOS ONE, Scientific Reports, Journal of Psychiatric Research, Nutrients, FASEB

RESEARCH

Ongoing Research Support

ACTIVE

- | | | | |
|---|--------------|---------------------|----------------------------|
| R01HL145302-01 | (Suzuki PI) | 04/1/20-3/31/24 | 3.6 calendar |
| NIH | | Annual: \$402,526 | Entire Period: \$2,072,429 |
| Impact of Prenatal vitamin A deficiency on cell fate alterations in adult airway hyperresponsiveness | | | |
| Role: PI | | | |
| Goal: Studying prenatal vitamin A deficiency on cell fate decisions in the fetus. | | | |
| 2R01AI103338-07A1 | (Lauvau) | 08/14/18-07/31/23 | 0.75 calendar |
| NIH | | Annual: \$5,461 | 5% effort |
| Enhancing pathogen-specific memory CD8+ T cell responses in vivo | | | |
| Role: Co-Investigator | | | |
| Goal: Collaborating to study transcriptional regulatory changes in pathogen-specific memory CD8+ T cell responses | | | |
| R01 MH123523 | (Kundakovic) | 04/01/21 – 03/31/26 | 1.2 calendar |
| NIH Subcontract with Fordham University | | Annual: \$24,304 | 10% effort |
| Epigenetic regulation of brain and behavior by the estrous cycle | | | |
| Role: Co-Investigator | | | |
| Goal: The goal of this project is to determine the estrous cycle-driven epigenetic regulation in hippocampal neurons and associated changes in behavior | | | |
| Dept. of the Army-USAMRAA (W. Guo/ G. Lauvau) | | 3/15/21 – 3/14/24 | 0.96 calendar |
| BC200410 / BC200410P1 | | Annual: \$8,740 | 8% effort |
| Exploring Antitumor Immune Response in a Novel MLL3-mutant Breast Cancer Model | | | |
| Role: Co-I | | | |

Goals: Exploring antitumor immune response in a novel MLL3-mutant Breast Cancer Model

R01R01DK131176(Reidy) 9/1/21 – 8/31/26
 NIH Annual: \$5,461
 Title: Cell specific Partitioning Defective Par1a/b deletion effects on renal repair
 Role: Co-I, years 4 & 5 only

Completed Research Support (in the last five years)

Pilot Project (Suzuki PI) 06/01/13-2/14/23
 Albert Einstein College of Medicine, Department of Genetics
 Prenatal vitamin D deficiency effects on offspring and the association to the disease risks later in life
 Role: PI
 Goal: Understanding how offspring remembers prenatal vitamin D deficiency exposure during development later in life.

International joint usage/research program (Suzuki/Sato PI) 4/01/20-3/31/21
 Tokyo Medical and Dental University
 Maternal vitamin D deficiency/insufficiency increases the disease risks of offspring later in life by changing immune cell proportions
 Role: co-PI
 Goal: Studying the effects of maternal vitamin D deficiency on immune cell proportions and epigenetic status of cord blood

P50 P50HD105352 (Morrow) 4/1/21-2/14/23
 NIH
 Title: IDDRC P50 – Neurogenomics Core
 Role: Co-I (Associate Director)

R01DC015776 (Hiroi PI) 08/01/17-07/31/22
 NIH
 Structure and Function of Neonatal Social Communication in Genetic Mouse Models of Autism
 Role: Co-Investigator (years 4 & 5 only)
 Goal: Collaborating to study transcriptional regulatory changes in this mouse model of autism.

U54AI138370 (Lipkin/Greally PIs) 09/01/17-08/31/22
 NIH Subcontract
 Center for Solutions for ME/CFS
 Role: Co-Investigator
 Goal: Studying the leukocyte transcriptomes of individuals with myalgic encephalomyelitis/chronic fatigue syndrome to gain insights into the pathogenesis of this condition.

R21AI152826-01A1 (Kalpana PI) 7/1/20 – 6/30/22
 NIH
 Single cell RNA-seq and single molecule RNA-FISH approaches to study stochasticity of latent HIV-1 reactivation
 Role: Co-Investigator
 Goal: to determine the stochasticity in latent HIV-1 reactivation by using single molecule RNA FISH. Furthermore, using single cell RNA-seq the goal is to identify extrinsic cellular factors that influence the stochastic activation of latent provirus.

R01ES010563-17 (Aschner PI) 04/01/18-02/14/23
 NIH

Mechanisms of Manganese Neurotoxicity

Role: Co-Investigator

Goal: Collaborating to study transcriptional regulatory changes in manganese neurotoxicity.

R01AG057422 (Greally/ Lappalainen PIs)

09/15/18-02/14/23

NIH

Understanding cellular and transcriptional regulatory changes in human aging

Role: Co-Investigator

Goal: Identification of age-labile functional sequence variants, loci that change their ability to influence gene expression with age, a unique insight into the relationship between DNA sequence polymorphism and aging.

SELECTED PRESENTATION (in the last five years)

2019 42nd annual meeting of the Molecular Biology Society of Japan, Fukuoka, Japan

2020 43rd annual meeting of the Molecular Biology Society of Japan, Online

2021 The 6th International Conference on Retinoids, Athens, Ohio

TEACHING RESPONSIBILITIES

Albert Einstein College of Medicine

1. Undergraduate Medical Education

Faculty facilitator, Conf 1-1 Fragile X (2018)

First year MD students in the case conference in the MCFM course (Molecular and Cellular Foundations of Medicine).

2. Graduate Education

Course leader, Special Topics in Molecular Genetics Course (2018)

Faculty organizer, Department of Genetics Retreat (2018)

Course Discussion moderator, Gene Expression course (2016, 2021-2022)

Faculty organizer, Department of Genetics Work-in-Progress (2019-2022)

Lecturer, Molecular Genetics (2020-2022)

3. Undergraduate Education

Student Advisory Committee

2019- Blair Schneider (Mentor: Dr. Julie Secombe)

2019 Zhongxuan Chi (Mentor: Dr. Bernice Morrow)

2020- Harmony Ketchum (Mentor: Dr. Meelad Dawlaty)

2021- Ian C. MacArthur (Mentor: Dr. Meelad Dawlaty)

2021- Alexander Ferrena (Mentor: Dr. Deyou Zheng)

Summer undergraduate research program (Research Advisor)

2019 Sara Mosavarpour, Grace Essilfie-Bondzie

2018 Tanjanay Hardy

2011 Faygel Beren

2010 Terrence N. Turner

2008 Fredrick K. Agyiri

PREP at Einstein program (Research Advisor)

2018 Beronica Ocasio

Summer Students (Mentor)

2022 Drew Jones – The Birch Wathen Lenox School, NY, NY (Mentor)
 2022 Huck Friedman – Bronx Science High School, Bronx, NY (Mentor)
 2021, 2022 Meika Tomita – Irvington High School, Irvington, NY (Mentor)
 2019 Josephine Olivier – Pelham High School, Pelham, NY (Mentor)
 2019 Aeka Tomita – Irvington High School, Irvington, NY (Mentor)
 2018 Hannah Berg – Duke University
 2010 Daniel Lia – NYU

PREP at Einstein program (Mentor)

2022 - Marianny Alvarado

4. Graduate and postgraduate Education

Students (Research Advisor):

2008-2014 Maria-Paz Ramos
 2009-2012 Esther Berko
 2012-2015 Netha Ulannanan
 2015-2018 Andrew Johnston
 2016-2018 Yu Kong
 2017-2021 Taylor Thompson
 2018-2021 Reanna Dona
 2019-2022 Cassidy Lundy

Postdocs/fellows (Research Advisor):

2008-2009 Priti Tewari
 2009-2010 Naomi Yachel
 2008-2010 Marien Pascual de Pedro
 2011-2013 Jeremy Rosenblum
 2011-2012 Elaine Pereira
 2021- Ayodele Akinyemi (advisory committee member, Primary mentor: Dr. Maureen Charron, IDDRRC T32 Training Grant)

Postdocs/fellows (Mentor):

2022-2023 Yuta Matsuno
 2020- Shudan Wang (co-Mentor, KL2 Mentored Clinical Research Scholar Grant)

Visiting Scientists:

2013 Ryo Maekawa (Yamaguchi University, Japan)
 2012 Koji Hayakawa (University of Tokyo, Japan)
 2015 Kazuya Kusama (University of Tokyo, Japan)
 2017-2018 Claudia Simoes Avello (University of Geneva, Switzerland)

Texas A&M University

Postdocs/fellows (Mentor):

2023- Yuta Matsuno

BIBLIOGRAPHY

Complete List of Published Work in MyBibliography:

<https://www.ncbi.nlm.nih.gov/myncbi/masako.suzuki.1/bibliography/public/>

A. Original Communications in Reviewed Journals:

§corresponding author, * equal contribution

1. Solomon Bera B, Thompson TV, Sosa E, Nomaru H, Reynolds D, Dubin RA, Maqbool SB, Zheng D, Morrow BE, Grealley JM, **Suzuki M**^s An optimized approach for multiplexing single-nuclear ATAC-seq using oligonucleotide conjugated antibodies. *Epigenetics Chromatin*. 2023 Apr 28;16(1):14. doi: 10.1186/s13072-023-00486-7. PMID: 37118773 PMCID: PMC10142415
2. Chang W, Zhao Y, Rayêe D, Xie Q, **Suzuki M**, Zheng D, and Cvekl A. Dynamic changes in whole genome DNA methylation, chromatin and gene expression during mouse lens differentiation. *Epigenetics Chromatin*. 2023 Jan 25;16(1):4. doi: 10.1186/s13072-023-00478-7. PubMed PMID: 36698218; PubMed Central PMCID: PMC9875507.
3. Ulahannan N, Cutler R, Doña-Termine R, Simões-Pires CA, Wijetunga NA, Croken MM, Johnston AD, Kong Y, Maqbool SB, **Suzuki M**, and Grealley JM. Genomic insights into host and parasite interactions during intracellular infection by *Toxoplasma gondii*. *PLoS One*. 2022;17(9):e0275226. doi: 10.1371/journal.pone.0275226. eCollection 2022. PubMed PMID: 36178892; PubMed Central PMCID: PMC9524707.
4. Lundy K, Grealley JF, Essilfie-Bondzie G, Olivier JB, Doña-Termine R, Grealley JM, and **Suzuki M**^s. Vitamin D Deficiency During Development Permanently Alters Liver Cell Composition and Function. *Front Endocrinol (Lausanne)*. 2022;13:860286. doi: 10.3389/fendo.2022.860286.
5. Ma L, Tang Q, Gao X, Lee J, Lei R, **Suzuki M**, Zheng D., Ito K, Frenette PS, and Dawlaty MM., Tet-mediated DNA demethylation regulates specification of hematopoietic stem and progenitor cells during mammalian embryogenesis *Sci Adv*. 2022 Mar 4;8(9):eabm3470. doi: 10.1126/sciadv.abm3470.
6. Rocks D, Jaric I, Tesfa L, Grealley JM, **Suzuki M**, Kundakovic M. Cell type-specific chromatin accessibility analysis in the mouse and human brain. *Epigenetics*. 2022 Jan-Feb;17(2):202-219. doi: 10.1080/15592294.2021.1896983.
7. Foox J, Nordlund J, Lalancette C, Gong T, Lacey M, Lent S, Langhorst BW, Ponnaluri VKC, Williams L, Padmanabhan KR, Cavalcante R, Lundmark A, Butler D, Mozsary C, Gurvitch J, Grealley JM, **Suzuki M**, Menor M, Nasu M, Alonso A, Sheridan C, Scherer A, Bruinsma S, Golda G, Muszynska A, Łabaj PP, Campbell MA, Wos F, Raine A, Liljedahl U, Axelsson T, Wang C, Chen Z, Yang Z, Li J, Yang X, Wang H, Melnick A, Guo S, Blume A, Franke V, Ibanez de Caceres I, Rodriguez-Antolin C, Rosas R, Davis JW, Ishii J, Megherbi DB, Xiao W, Liao W, Xu J, Hong H, Ning B, Tong W, Akalin A, Wang Y, Deng Y, Mason CE. The SEQC2 epigenomics quality control (EpiQC) study. *Genome Biol*. 2021 Dec 6;22(1):332. doi: 10.1186/s13059-021-02529-2.
8. Cwiek A, **Suzuki M**, deRonde K, Conaway M, Bennett KM, El Dahr S, Reidy K, Charlton JR. Premature differentiation of nephron progenitors and dysregulation of gene pathways critical to kidney development in a model of preterm birth. *Scientific Reports*. 2021 Nov 4;11(1):21667. doi: 10.1038/s41598-021-00489-y. PMID: 34737344
9. **Suzuki M**^s, Wang T, Garretto D, Isasi CR, Cardoso WV, Grealley JM, Quadro L. Disproportionate Vitamin A Deficiency in Women of Specific Ethnicities Linked to Differences in Allele Frequencies of Vitamin A-Related Polymorphisms. *Nutrients*. 2021; 13(6):1743. doi.org:10.3390/nu13061743
10. Rocks D, Jaric I, Tesfa L, Grealley JM, **Suzuki M**, Kundakovic M. Cell Type-Specific Chromatin Accessibility Analysis in the Mouse and Human Brain. *Epigenetics*. 2021; 29:1-18. PMID: 33775205
11. de Torrenté L, Zimmerman S, **Suzuki M**, Christopeit M, Grealley JM, Mar JC. The shape of gene expression distributions matter: how incorporating distribution shape improves the interpretation of cancer transcriptomic data. *BMC Bioinformatics*. 2020 Dec 28;21(Suppl 21):562. doi: 10.1186/s12859-020-03892-w. PubMed PMID: 33371881; PubMed Central PMCID: PMC7768656.
12. Rastogi D, Johnston AD, Nico J, Loh LN, Jorge Y, **Suzuki M**, Macian F, Grealley JM. Functional Genomics of the Pediatric Obese Asthma Phenotype Reveal Enrichment of Rho-GTPase Pathways. *Am J Respir Crit Care Med*. 2020 Jul 15;202(2):259-274. doi: 10.1164/rccm.201906-1199OC. PubMed PMID: 32255672; PubMed Central PMCID: PMC7365356.

13. Johnston AD, Abdulrazak A, Sato H, Maqbool SB, **Suzuki M**, Greally JM, Simões-Pires CA. A Cellular Stress Response Induced by the CRISPR-dCas9 Activation System Is Not Heritable Through Cell Divisions. *CRISPR J.* 2020 Jun;3(3):188-197. doi: 10.1089/crispr.2019.0077. PubMed PMID: 33560917.
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15. Johnston AD, Simões-Pires C, **Suzuki M**, and Greally JM. High-efficiency genomic editing in Epstein-Barr virus-transformed lymphoblastoid B cells using a single-stranded donor oligonucleotide strategy. *Commun Biol.* 2019;2:312. doi: 10.1038/s42003-019-0559-3. eCollection 2019. PubMed PMID: 31428700; PubMed Central PMCID: PMC6694121.
16. Johnston AD, Simões-Pires C, Thompson TV, **Suzuki M**, and Greally JM. Functional genetic variants mediate their regulatory effects through alteration of transcription factor binding. *Nat Commun.* 2019 Aug 2;10(1):3472. doi: 10.1038/s41467-019-11412-5. PubMed PMID: 31375681; PubMed Central PMCID: PMC6677801.
17. Jaric I, Rocks D, Greally JM, **Suzuki M**, and Kundakovic M. Chromatin organization in the female mouse brain fluctuates across the oestrous cycle. *Nature communications.* 2019;10(1):2851. Epub 2019/06/30. doi: 10.1038/s41467-019-10704-0. PubMed PMID: 31253786; PMCID: PMC6598989.
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19. Nakahara F, Borger DK, Wei Q, Pinho S, Maryanovich M, Zahalka AH, **Suzuki M**, Cruz CD, Wang Z, Xu C, Boulais PE, Ma'ayan A, Greally JM, Frenette PS. Engineering a haematopoietic stem cell niche by revitalizing mesenchymal stromal cells. *Nat Cell Biol.* 2019;21(5):560-7. Epub 2019/04/17. doi: 10.1038/s41556-019-0308-3. PubMed PMID: 30988422; PMCID: PMC6499646.
20. Kong Y, Rastogi D, Seoighe C, Greally JM, **Suzuki M**^S. Insights from deconvolution of cell subtype proportions enhance the interpretation of functional genomic data. *PLoS One.* 2019;14(4):e0215987. Epub 2019/04/26. doi: 10.1371/journal.pone.0215987. PubMed PMID: 31022271; PMCID: PMC6483354.
21. Chorro L, **Suzuki M**, Chin SS, Williams TM, Snapp EL, Odagiu L, Labrecque N, Lauvau G. Interleukin 2 modulates thymic-derived regulatory T cell epigenetic landscape. *Nature communications.* 2018;9(1):5368. Epub 2018/12/19. doi: 10.1038/s41467-018-07806-6. PubMed PMID: 30560927; PMCID: PMC6299086.
22. **Suzuki M**^{*}, Liao W^{*}, Wos F^{*}, Johnston AD, DeGrazia J, Ishii J, Bloom T, Zody MC, Germer S, Greally JM. Whole-genome bisulfite sequencing with improved accuracy and cost. *Genome Res.* 2018;28(9):1364-71. Epub 2018/08/11. doi: 10.1101/gr.232587.117. PubMed PMID: 30093547; PMCID: PMC6120621.
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- with Risk for Preeclampsia in Those with African Ancestry. *American journal of human genetics*. 2018;103(3):367-76. Epub 2018/09/04. doi: 10.1016/j.ajhg.2018.08.002. PubMed PMID: 30173819; PMCID: PMC6128247.
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 30. Yuan Z, Sanchez Claros C, **Suzuki M**, Maggi EC, Kaner JD, Kinstlinger N, Gorecka J, Quinn TJ, Geha R, Corn A, Pastoriza J, Jing Q, Adem A, Wu H, Alemu G, Du YC, Zheng D, Greally JM, Libutti SK. Loss of MEN1 activates DNMT1 implicating DNA hypermethylation as a driver of MEN1 tumorigenesis. *Oncotarget*. 2016;7(11):12633-50. Epub 2016/02/13. doi: 10.18632/oncotarget.7279. PubMed PMID: 26871472; PMCID: PMC4914310.
 31. **Suzuki M**[§], Maekawa R, Patterson NE, Reynolds DM, Calder BR, Reznik SE, Heo HJ, Einstein FH, Greally JM[§]. Amnion as a surrogate tissue reporter of the effects of maternal preeclampsia on the fetus. *Clinical epigenetics*. 2016;8:67. Epub 2016/06/14. doi: 10.1186/s13148-016-0234-1. PubMed PMID: 27293492; PMCID: PMC4902972. (MS, corresponding author)
 32. Ramos MP, Wijetunga NA, McLellan AS, **Suzuki M**, Greally JM. DNA demethylation by 5-aza-2'-deoxycytidine is imprinted, targeted to euchromatin, and has limited transcriptional consequences. *Epigenetics Chromatin*. 2015;8:11. Epub 2015/03/26. doi: 10.1186/s13072-015-0004-x. PubMed PMID: 25806086; PMCID: PMC4372267.
 33. Mullapudi N, Ye B, **Suzuki M**, Fazzari M, Han W, Shi MK, Marquardt G, Lin J, Wang T, Keller S, Zhu C, Locker JD, Spivack SD. Genome Wide Methylome Alterations in Lung Cancer. *PLoS One*.

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