

Andrew S. Goldstein, Ph.D.

Biography: Andrew Goldstein, Ph.D., is an Assistant Professor of Molecular, Cell and Developmental Biology and Assistant Professor of Urology in the David Geffen School of Medicine at the University of California, Los Angeles. Dr. Goldstein is a member of the Broad Stem Cell Research Center and the Jonsson Comprehensive Cancer Center at UCLA. Dr. Goldstein majored in Biochemistry and Molecular Biology at Dartmouth College before receiving his Ph.D. in Molecular Biology under the mentorship of Dr. Owen Witte at UCLA. He went on to start his own research group as a Fellow of the Broad Stem Cell Research Center at UCLA in 2011 before joining the faculty as an Assistant Professor in 2016. Dr. Goldstein's research has been supported by a Prostate Cancer Foundation Young Investigator Award, Department of Defense PCRP Idea Development Award and an American Cancer Society Research Scholar Grant, and his work is currently supported by an NIH/NCI R01. He has been awarded the 2018 American Cancer Society Giants of Science Hope Award, 2019 SBUR Young Investigator Award and 2019 Rose Hills Innovator Award. At UCLA, Dr. Goldstein serves on committees for the Jonsson Comprehensive Cancer Center, the SPORE in Prostate Cancer, and the graduate program in Cell and Developmental Biology. He joined the Society for Basic Urologic Research in 2019 and currently participates as part of the membership committee (2020-present).

Research Interests: Research in Dr. Goldstein's laboratory is focused on defining factors that regulate prostate progenitor cell aging and transformation with an emerging interest in prostate epithelial metabolism. As part of his doctoral work, Dr. Goldstein identified the first cell-type of origin for human prostate cancer, demonstrating that human prostate basal cells could initiate cancer following oncogenic transformation. He went on to define inflammation-associated luminal progenitor cells in human prostate that could also initiate prostate cancer. More recently, his group has defined age-related changes to the prostate epithelial compartment, characterized by an increase in luminal progenitor cells.

Vision Statement:

Membership: As a relatively new SBUR member, I am still learning about the society and how we can best recruit, retain and serve our membership. One advantage of minimal experience in the society is having an interest in learning what we can do as a society to be most supportive of basic science researchers. Perhaps there are opportunities to reimagine the benefits of society membership and fill a need that is not currently met locally, such as external mentorship from senior faculty to junior faculty or trainees. As secretary, I would try to learn as much as I can about how the society functions and how we can try to work even more effectively for our members.

Engagement: I would like to help find ways to increase member engagement outside of SBUR meetings. My group has contributed multiple articles to the American Journal of Clinical and Experimental Urology (AJCEU), the society journal. I would like to find ways to continue to support the AJCEU beyond the role of author and reviewer. Perhaps we can increase visibility and ultimately citations for papers published in the journal through more regular communication with society membership, highlighting new research and service by SBUR members. Additionally, we can do a better job of connecting members with other researchers in their geographical region, which may lead to new collaborations or even local mini-meetings of SBUR members. As secretary, I would take pride in communicating with members and seek to increase member engagement to facilitate growth for the society, for individual members, and for basic urologic research.

Andrew Goldstein, Ph.D.

Curriculum Vitae

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EDUCATION

- University of California, Los Angeles, Ph.D. in Molecular Biology, May 2011
- Dartmouth College, Hanover, NH, B. A. in Biochemistry and Molecular Biology, June 2005

POSITIONS HELD

- Assistant Professor, Molecular, Cell & Developmental Biology, Department of Urology, University of California, Los Angeles, July 2020-Present
- Assistant Professor-In-Residence, Molecular, Cell & Developmental Biology, Department of Urology, University of California, Los Angeles, June 2016- June 2020
- Inaugural Fellow of the Broad Stem Cell Research Center, Assistant Researcher, Molecular & Medical Pharmacology, David Geffen School of Medicine, University of California, Los Angeles, May 2011-June 2016
- Ph.D. Student, Laboratory of Dr. Owen Witte, University of California, Los Angeles, Sept. 2006- May 2011

RESEARCH FOCUS

My research is at the intersection of cancer biology, stem cell biology and metabolism, investigating the cellular and molecular mechanisms driving epithelial cancer initiation, progression and resistance to treatment with a focus on prostate cancer.

AWARDS

- Society for Basic Urologic Research Young Investigator Award, 2019
- BSCRC-Rose Hills Foundation Innovator Award, 2019-2020
- American Cancer Society 2018 Giants of Science Hope Award
- American Cancer Society Research Scholar Grant, 2017-21
- Margaret E. Early Medical Research Trust Award, 2017-19
- STOP CANCER Research Career Development Award, 2017-19
- Department of Defense Idea Development Award-New Investigator, 2013-16
- Joe & Ali Torre-Prostate Cancer Foundation Young Investigator Award, 2011-14
- Prostate Cancer SPORE Career Development Award, 2011-12, 2015-16
- Inaugural Fellow of the Broad Stem Cell Research Center, 2011-16
- UCLA Graduate Division Dissertation Year Fellowship, 2010-11
- Warsaw Family Research Fellowship, 2010-11
- Ruth L. Kirschstein National Research Service Award, 2007-2010

TEACHING EXPERIENCE

- Primary lecturer, UCLA Molecular, Cell & Developmental Biology 146: Metabolism and Disease, Fall 2017, Fall 2018, Fall 2019, Fall 2020
- Guest lectures, UCLA BR 5HA – Biomedical Research: Concepts and Strategies, Fall 2018, Winter 2019, Summer 2019, Fall 2020
- Guest lectures, UCLA BR 5HB – Biomedical Research: Essential Skills and Concepts, Winter 2017
- Guest lectures, Santa Monica College Research Deconstruction, Spring 2018 and Fall 2018
- Guest lecture, “Prostate Stem Cells” in UCLA Molecular, Cellular & Developmental Biology 168: Stem Cell Biology and Regenerative Medicine, Spring 2011, Spring 2012, Spring 2013, Winter 2018, Winter 2019, Winter 2020
- Guest lecture, “Caloric Restriction and Cancer” in UCLA Community Health Sciences 449: Nutrition and Chronic Disease, Spring 2018

- Guest group leader, UCLA Microbiology, Immunology, And Molecular Genetics C234: Ethics and Accountability in Biomedical Research, Spring 2018, Spring 2019, Spring 2020
- CEILS Faculty Workshop on Best Practices in Teaching, September 2016, CEILS Advancing Faculty Mentoring Practices, September 2016 and September 2017, CEILS Workshop on Creating Equitable Learning Environments & Teaching Inclusively, February and March 2019, CEILS Workshop on Teaching Equitably Online: Syllabus Design, July 2020, CEILS Workshop on Teaching Equitably Online: Student Engagement, August 2020, Academics for Black Survival and Wellness Workshop, August 2020
- Guest lecture, “Stem Cells and Cancer” in General Education 80CW: Stem Cells and Aging, Spring 2012
- Teaching assistant, Molecular, Cellular & Developmental Biology 100: Introduction to Cell Biology, Winter 2008 and Fall 2008, University of California, Los Angeles

PUBLICATIONS

1. Lukacs RU, Lawson DA, Xin L, Zong Y, Garraway I, **Goldstein AS**, Memarzadeh S, Witte ON. Epithelial Stem Cells of the Prostate and Their Role in Cancer Progression. *Cold Spring Harb Symp Quant Biol* (2008), 73:491-502.
2. **Goldstein AS**, Lawson DA, Cheng D, Sun W, Garraway IP, Witte ON. Trop2 identifies a subpopulation of murine and human prostate basal cells with stem cell characteristics. *PNAS USA* (2008), 105:20882-20887.
3. Zong Y, Xin L, **Goldstein AS**, Lawson DA, Teitell MA, Witte ON. ETS family transcription factors collaborate with alternative signaling pathways to induce carcinoma from adult murine prostate cells. *PNAS USA* (2009), 106:12465-12470.
4. **Goldstein AS**, Stoyanova T, Witte ON. Primitive origins of prostate cancer: in vivo evidence for prostate-regenerating cells and prostate cancer-initiating cells. *Molecular Oncology* (2010), 4:385-396.
5. Lukacs RU, **Goldstein AS**, Lawson DA, Cheng D, Witte ON. Isolation, cultivation and characterization of adult murine prostate stem cells. *Nature Protocols* (2010), 5:702-713.
6. Memarzadeh S, Zong Y, Janzen D, **Goldstein AS**, Cheng D, Kurita T, Schafenacker A, Huang J, Witte ON. Cell autonomous activation of the PI3Kinase pathway initiates endometrial cancer from adult uterine epithelium. *PNAS USA* (2010), 107:17298-17303.
7. Garraway IP, Sun W, Tran CP, Perner S, Zhang B, **Goldstein AS**, Hahm SA, Haider M, Head CS, Reiter RE, Rubin MA, Witte ON. Human prostate sphere-forming cells represent a subset of basal epithelial cells capable of glandular regeneration in vivo. *Prostate* (2010), 70:491-501.
8. **Goldstein AS**, Huang J, Guo C, Garraway IP, Witte ON. Identification of a cell-of-origin for human prostate cancer. *Science* (2010), 329:568-571.
- Featured in several reviews and commentaries including *Nat Rev Cancer* (2010), 10:598, *Nat Rev Clin Oncol* (2010), 7:550, *Nat Rev Urol* (2010), 7:650-652, and *Sci Transl Med* (2010), 2:43ps38.
9. **Goldstein AS**, Zong Y, Witte ON. A two-step toward personalized therapies for prostate cancer. *Science Translational Medicine* (2011), 3:72ps7.
10. **Goldstein AS**, Drake JM, Burnes DL, Finley DS, Zhang H, Reiter RE, Huang J, Witte ON. Purification and direct transformation of epithelial progenitor cells from primary human prostate. *Nature Protocols* (2011), 6:656-667.
11. **Goldstein AS**, Huang J. Do neuroendocrine cells come up large in small cell lung cancer? *Cell Cycle* (2011), 10:3627.
12. Jiao J, Hindoyan A, Wang S, Tran LM, **Goldstein AS**, Lawson D, Chen D, Li Y, Guo C, Zhang B, Fazli L, Gleave M, Witte ON, Garraway IP, Wu H. Identification of CD166 as a Surface Marker for Enriching Prostate Stem/Progenitor and Cancer Initiating Cells. *PLoS One* (2012), 7:e42563.
13. Miller JP, Yeh N, Hofstetter CP, Keskin D, **Goldstein AS**, Koff A. p27kip1 levels reflect a nexus of oncogenic signaling during cell transformation. *J Biol Chem* (2012) 287:19775-19785.
14. Kravcheko-Balashaa N, Levitzki A, **Goldstein A**, Rotterd V, Grossb A, Remacle F, Levine RD. On a fundamental structure of gene networks in living cells. *PNAS USA* (2012), 109:4702-4707.
15. Drake JM, Graham NA, Stoyanova T, Sedghi A, **Goldstein AS**, Cai H, Smith DA, Zhang H, Komisopoulou E, Huang J, Graeber TG, Witte ON. Oncogene-specific activation of tyrosine kinase networks during prostate cancer progression. *PNAS USA* (2012), 109:1643-1648.

16. Stoyanova T, **Goldstein AS**, Cai H, Drake JM, Huang J, Witte ON. Regulated proteolysis of Trop2 drives epithelial hyperplasia and stem cell self-renewal via beta-catenin signaling. *Genes & Development* (2012), 26:2271-2285.
17. **Goldstein AS**, Witte ON. A plethora of progenitors in the post-natal prostate. *EMBO Reports* (2012), 13:1036-1037.
18. Stoyanova TI, **Goldstein AS**. Identification, characterization and targeting of Docetaxel-resistant prostate cancer cells. *Asian J Androl* (2013), 15:83-84.
19. Zong Y, **Goldstein AS**. Adaptation or selection: Mechanisms of castration-resistant prostate cancer. *Nature Reviews Urology* (2013), 10:90-98.
20. Janzen DM, Cheng D, Schafenacker AM, Paik DY, **Goldstein AS**, Witte ON, Jaroszewicz A, Pellegrini M, Memarzadeh S. Estrogen and progesterone together expand murine endometrial epithelial progenitor cells. *Stem Cells* (2013), 31:808-822.
21. Zong Y, **Goldstein AS**, Huang J. The molecular basis for ethnic variation and histological subtype differences in prostate cancer. *Sci China Life Sci* (2013), 56:780-787.
22. **Goldstein AS**, Witte ON. Does the microenvironment influence the cell types of origin for prostate cancer? *Genes & Development* (2013), 27:1539-1544.
23. Stoyanova T, Cooper AR, Drake JM, Liu X, Armstrong AJ, Pienta KJ, Zhang H, Kohn DB, Huang J, Witte ON, **Goldstein AS**. Prostate cancer originating in basal cells progresses to adenocarcinoma propagated by luminal-like cells. *PNAS USA* (2013), 110:20111-20116.
24. **Goldstein AS**. A symbiotic relationship between epithelial and stromal stem cells. *PNAS USA* (2013), 110:20356-20357.
25. Liu X, **Goldstein AS**. Inflammation promotes prostate differentiation. *PNAS USA* (2014), 111:1666-7.
26. Stoyanova T, **Goldstein AS**. Distinct phases of human prostate cancer initiation and progression can be driven by different cell-types. *Cancer Cell Microenviron* (2014) 1:e90
27. Strand DW, **Goldstein AS**. The many ways to make a luminal cell and a prostate cancer cell. *Endocr Relat Cancer* (2015), 22:T187-97.
28. Zong Y, **Goldstein AS**, Witte ON. Dissociated Prostate Regeneration under the Renal Capsule. *Cold Spring Harb Protoc.* (2015) Nov 2;2015(11):pdb.prot078063
29. Zong Y, **Goldstein AS**, Witte ON. Preparation of Urogenital Sinus Mesenchymal Cells for Prostate Tissue Recombination Models. *Cold Spring Harb Protoc.* (2015) Nov 2;2015(11):pdb.prot078055
30. Stoyanova T, Riedinger M, Lin S, Faltermeier CM, Smith BA, Zhang KX, Going CC, **Goldstein AS**, Lee JK, Drake JM, Rice MA, Hsu EC, Nowroozizadeh B, Castor B, Orellana SY, Blum SM, Cheng D, Pienta KJ, Reiter RE, Pitteri SJ, Huang J, Witte ON. Activation of Notch1 synergizes with multiple pathways in promoting castration-resistant prostate cancer. *PNAS USA* (2016), 113:E6457-E6466.
31. Liu X, Grogan T, Hieronymus H, Hashimoto T, Mottahedeh J, Cheng D, Zhang L, Huang K, Stoyanova T, Park JW, Shkhyan RO, Nowroozizadeh B, Rettig MB, Sawyers CL, Elashoff D, Horvath S, Huang J, Witte ON, **Goldstein AS**. Low CD38 identifies progenitor-like inflammation-associated luminal cells that can initiate human prostate cancer and predict poor outcome. *Cell Reports* (2016), 17:2596-2606.
32. Remacle F, **Goldstein AS**, Levine RD. Multivariate Surprisal Analysis of Gene Expression Levels. *Entropy* (2016), 18: 445; doi:10.3390/e18120445
33. Crowell PD, **Goldstein AS**. Functional evidence that progenitor cells near sites of inflammation are precursors for aggressive prostate cancer. *Mol Cell Oncol* (2017), 4:e1279723.
34. Navarro HI, **Goldstein AS**. HoxB13 mediates AR-V7 activity in prostate cancer. *PNAS USA* (2018), 115:6528-9.
35. Mottahedeh J, Haffner MC, Grogan TR, Hashimoto T, Crowell PD, Beltran H, Sboner A, Bareja R, Esopi D, Isaacs WB, Yegnasubramanian S, Rettig MB, Elashoff DA, Platz EA, De Marzo AM, Teitell MA, **Goldstein AS**. CD38 is methylated in prostate cancer and regulates extracellular NAD⁺. *Cancer & Metabolism* (2018), 6:13.

36. Crowell PD, Fox JJ, Hashimoto T, Diaz JA, Navarro HI, Henry GH, Feldmar BA, Lowe MG, Garcia AJ, Wu YE, Sajed DP, Strand DW, **Goldstein AS**. Expansion of luminal progenitor cells in the aging mouse and human prostate. *Cell Reports* (2019), 28:1499-1510.
37. Fox JJ, Navarro HI, Hashimoto T, Garcia AJ, **Goldstein AS**. Mass cytometry reveals species-specific differences and a new level of complexity for immune cells in the prostate. *Am J Clin Exp Urol* (2019), 7:281-296.
38. Crowell PD, Giafaglione JM, Hashimoto T, Diaz JA, **Goldstein AS**. Evaluating the Differentiation Capacity of Mouse Prostate Epithelial Cells Using Organoid Culture. *J Vis Exp* (2019) Nov 22;(153).
39. Li Y, He Y, Butler W, Xu L, Chang Y, Lei K, Zhang H, Zhou Y, Gao AC, Zhang Q, Taylor DG, Cheng D, Farber-Katz S, Karam R, Landrith T, Li B, Wu S, Hsuan V, Yang Q, Hu H, Chen X, Flowers M, McCall SJ, Lee JK, Smith BA, Park JW, **Goldstein AS**, Witte ON, Wang Q, Rettig MB, Armstrong AJ, Cheng Q, Huang J. Targeting cellular heterogeneity with CXCR2 blockade for the treatment of therapy-resistant prostate cancer. *Sci Transl Med* (2019) Dec 4;11(521).
40. Crowell PD, Giafaglione JM, Hashimoto T, **Goldstein AS**. Distinct cell-types in the prostate share an aging signature suggestive of metabolic reprogramming. *Am J Clin Exp Urol* (2020), 8(4): 140-151.

INVITED/SELECTED ORAL PRESENTATIONS AT INTERNATIONAL MEETINGS

1. Goldstein AS. (2011) Alternative tumor phenotypes in prostate cancer from a common cell-type of origin. Plenary session: Breaking research in stem cell biology at the *Prostate Cancer Foundation 18th annual meeting*, Lake Tahoe, NV.
2. Goldstein AS. (2012) Distinct self-renewing stem-like cell populations initiate and maintain aggressive human prostate cancer. Concurrent Session: Stem cells and cancer at *10th Annual Meeting of International Society for Stem Cell Research*, Yokohama, Japan.
3. Goldstein AS. (2013) Epithelial progenitor cells and inflammation. Plenary session: Game Changing Research from PCF High-Achieving Young Investigators at the *Prostate Cancer Foundation 20th annual meeting*, Washington, DC.
4. Goldstein, AS. (2017) Precursors for human prostate cancer. Breakout session: Cell of Origin in Urology, Controversies and Convergences at the *Society for Basic Urological Research 2017 Spring Meeting*, Boston, MA.
5. Goldstein, AS. (2018) Inflammation, aging and the cells-of-origin for prostate cancer. Plenary session: *Prostate Cancer Foundation 25th annual meeting*, Carlsbad, CA.
6. Goldstein, AS. (2019) Defining the influence of aging on prostate epithelium and the microenvironment. Plenary session: *The 3rd Leo and Anne Albert Charitable Trust Workshop: Reducing the Burden of Bone Metastatic Prostate Cancer*, University of California, San Diego, La Jolla, CA.
7. Goldstein, AS. (2019) Minisymposium on Novel Approaches to Understand Cancer Stem Cells. Session co-chair, *American Association for Cancer Research Annual Meeting 2019*, Atlanta, GA.
8. Goldstein, AS. (2020) NAD⁺ metabolism is a potential therapeutic vulnerability in neuroendocrine prostate cancer. Abstract selected for talk in Plenary Session: Metabolism. *AACR Advances in Prostate Cancer Research*, Denver, CO. **Conference cancelled due to COVID-19.

ORAL PRESENTATIONS AT NATIONAL AND LOCAL MEETINGS

1. Goldstein AS. (2009) Direct transformation from freshly-isolated primary human prostate epithelial cells. *Prostate Cancer Foundation Young Investigator's Meeting*, Lake Tahoe, NV.
2. Goldstein AS. (2010) Identification of a cell-of-origin for human prostate cancer. *1st Annual Broad Stem Cell Conference*, Asilomar, CA.
3. Goldstein AS. (2010) Identifying and targeting the cells that initiate human prostate cancer. *Molecular Biology Interdepartmental Program Retreat*, Lake Arrowhead, CA.
4. Goldstein AS. (2011) Prostate cancer as a stem cell disease. *UCLA Broad Stem Cell Research Center Working Group Meeting*, Los Angeles, CA.
5. Goldstein AS. (2012) Distinct self-renewing stem-like cell populations initiate and maintain aggressive human prostate cancer. *2nd Annual Broad Stem Cell Conference*, Asilomar, CA.

6. Goldstein AS. (2012) Stem-like cells in the initiation and progression of human prostate cancer. *Jonsson Comprehensive Cancer Center Research Seminar*, University of California, Los Angeles.
7. Goldstein AS. (2012) Distinct phenotypic cell populations initiate and maintain human prostate cancer. *Weill Cornell Medical College Pathology and Laboratory Medicine Research Seminar Series*, New York, NY
8. Goldstein AS. (2012) Prostate cancer as a stem cell disease. *Informed Prostate Cancer Support Group*, San Diego, CA.
9. Goldstein AS. (2013) The role of progenitor cells in the initiation and progression of human prostate cancer 2013. *Prostate SPORE/PPCR Seminar Series at Fred Hutchinson Cancer Research Center*, Seattle, WA.
10. Goldstein AS. (2013) In vitro propagation of human prostate progenitor cells. *Prostate Cancer Foundation Organoids Working Group Meeting*, New York, NY.
11. Goldstein AS. (2013) Prostate cancer progenitor cells are associated with inflammation and poor prognosis. *Stem Cells 2.0 California/Harvard Stem Cell Institute PI Meeting*, Los Angeles, CA.
12. Goldstein AS. (2014) A role for epithelial progenitor cells and inflammation in prostate cancer. *Robert W. Franz Cancer Research Center Seminar Series*, Providence Cancer Center, Portland, OR.
13. Goldstein AS. (2014) Prostate epithelial heterogeneity and immune cell interactions. *PCF 2014 Coffey-Holden Prostate Cancer Academy*, La Jolla, CA.
14. Goldstein AS. (2014) An origin story: epithelial progenitor cells, inflammatory signaling and prostate cancer. *Canary Center at Stanford for Cancer Early Detection*, Palo Alto, CA.
15. Goldstein AS. (2014) Prostate cancer as a disease of progenitor cells. *Children's Medical Center Research Institute at UT Southwestern*, Dallas, TX.
16. Goldstein AS. (2015) Prostate cancer as a disease of progenitor cells. *UC Irvine Department of Biological Chemistry*, Irvine, CA.
17. Goldstein AS. (2015) Prostate cancer as a disease of progenitor cells. *UCLA SPORE/Jonsson Comprehensive Cancer Center GU Oncology Leaders Lecture*, Los Angeles, CA.
18. Goldstein, AS. (2015) Investigating common mechanisms driving aggressive/metastatic epithelial cancers. *UCLA BSCRC Cancer Stem Cell Research Group*, Los Angeles, CA.
19. Goldstein, AS. (2015) Investigating the cellular and molecular basis of aggressive prostate cancer. *UCLA Special Joint Seminar, Department of Urology, Department of Molecular, Cell & Developmental Biology*, Los Angeles, CA.
20. Goldstein, AS. (2016) A new approach to study human prostate cancer. *Jonsson Cancer Center Foundation Board Meeting*, Los Angeles, CA.
21. Goldstein, AS. (2016) CD38 links stem/progenitor cells and metabolism in prostate cancer. *UCLA SPORE in Prostate Cancer Annual Symposium*, Los Angeles, CA.
22. Goldstein, AS. (2016) Progenitor cells, cancer and metabolism in prostate epithelium. *UCLA Cell and Developmental Biology Club*, Los Angeles, CA.
23. Goldstein, AS. (2016) Progenitor frequency and gene signatures distinguish neighboring epithelial tissues with vastly different rates of cancer. *UCLA Molecular, Cell & Developmental Biology Department Retreat*, Lake Arrowhead, CA.
24. Goldstein, AS. (2017) Using clinical observations, human tissues and animal models to investigate prostate cancer. *UCLA Jonsson Comprehensive Cancer Center Guild*, Los Angeles, CA.
25. Goldstein, AS. (2017) Investigating cancer susceptibility in the prostate. *UCLA Molecular Biology Institute Faculty Seminar Series*, Los Angeles, CA.
26. Goldstein, AS. (2017) Regulation of prostate epithelial cells. *UCLA Molecular, Cell & Developmental Biology Department Retreat*, Lake Arrowhead, CA.
27. Goldstein, AS. (2018) Prostate epithelial progenitor cells and their metabolic regulation. *UCLA Jonsson Comprehensive Cancer Center Research Seminar*, Los Angeles, CA.
28. Goldstein, AS. (2018) UCLA Spotlighted Researcher: Role of CD38 in prostate tumorigenesis. *American Cancer Society Los Angeles Area Research Reception*, City of Hope, Duarte, CA.

29. Goldstein, A.S. (2018) Evaluating a role for CD74 in prostate cancer. *UCLA Prostate Cancer SPORE Quarterly Meeting*, Los Angeles, CA.
30. Goldstein, AS. (2018) Inflammation, aging and the cells-of-origin for prostate cancer. *UCLA Broad Stem Cell Research Center Working Group Meeting*, Los Angeles, CA.
31. Goldstein, AS. (2019) Age as a regulator of the cells-of-origin for prostate cancer. *UCLA Cell and Developmental Biology Club*, Los Angeles, CA.
32. Goldstein, AS. (2019) Genetically-defined patient-relevant models of human prostate cancer. *Prostate Cancer SPORE Conference Call*.
33. Goldstein, AS. (2020) Prostate Aging, Tumorigenesis and Metabolism. *UCLA Metabolism Theme Know Your Colleagues Seminar Series*, Los Angeles, CA.
34. Goldstein, AS (2020) Metabolic Regulation of Antiandrogen-Resistance and Lineage Plasticity. *UCLA Prostate Cancer SPORE Quarterly Investigators' Meeting*, Los Angeles, CA.
35. Goldstein, AS. (2020) Identifying and targeting mechanisms that regulate cellular plasticity and treatment-resistance in prostate cancer. *Broad Stem Cell Research Center External Advisory Board Meeting*, Los Angeles, CA.

OUTSIDE PROFESSIONAL RESPONSIBILITIES

- Reviewer for several journals including PNAS, Science, Nature Medicine, Nature Protocols, Oncogene, EMBO, Cell Reports, etc.
- Reviewer for foundation grants including Prostate Cancer Foundation Challenge Award (2014-20), Prostate Cancer Foundation Young Investigator Award (2014-20), Belgium's Fund for Scientific Research (2017), the Wellcome Trust India Alliance Fellowship (2017), Austrian Science Fund (2018), Prostate Cancer UK (2020), Swiss 3R Competence Centre (2020)
- Reviewer for UCLA's SPORE in Prostate Cancer Career Development Awards (2019-2020), UCLA's Broad Stem Cell Research Center Predoctoral and Postdoctoral Awards (2018-2020), UCLA's Jonsson Comprehensive Cancer Center Seed Grants (2019-2020)
- Co-Leader, Prostate Cancer Foundation Young Investigator Community Tumorigenesis Group (2014-16)

Mentor to 9 undergraduate students at University of California, Los Angeles carrying out research in my laboratory (2014-20), including 5 underrepresented minority (URM) students.

- Jun Woo Ha, MIMG Major, mentored September 2014 – December 2015
- Sunny Trivedi, MCDB major, mentored January 2016 – 2017
- Jeffrey Wang, MCDB major, mentored September 2016 – June 2016
- Jonathan Fox, MCDB major, Minor in Biomedical Research, mentored January 2017- June 2019
 - Co-Winner of 2017 and 2018 UCLA MCDB Department Retreat Poster Award
 - Awarded 2018 Scholarship from UCLA Undergraduate Research Scholars Program
- Johnny Diaz, MCDB major, Minor in Biomedical Research, mentored January 2018 – present
 - Co-Winner of 2018 UCLA Molecular, Cell & Developmental Biology Department Retreat Poster Award
 - Awarded UC Center for Academic & Research Excellence (CARE) Scholarship 2018-2020, 2018 Saul Martinez Scholarship, i²URP program 2019-2020
 - Co-Winner of 2020 Molecular, Cell & Developmental Biology Senior Undergraduate Research Award
- Ana Cabrera, MIMG major, mentored March 2018 – December 2019
- Amanda Gracian, Physiological Sciences major, mentored January 2019 – August 2019
 - Biomedical Sciences Enrichment Program (BISEP) program, UC Center for Academic & Research Excellence (CARE) Summer Scholarship 2019
- Amelie Del Court, MCDB major, Minor in Biomedical Research, mentored January 2019 – present
 - Biomedical Sciences Enrichment Program (BISEP) program, Program for Excellence in Education and Research in the Sciences (PEERS), Maximizing Access to Research Careers (MARC) 2019-2021
- Jazmin Michel Mondragon, MCDB major, mentored January 2020 - present
 - Biomedical Sciences Enrichment Program (BISEP) program, Maximizing Access to Research Careers (MARC) 2020-2022

Mentor to 4 graduate students at University of California, Los Angeles through the Molecular Biology Interdepartmental Program (2017-20), including 1 underrepresented minority student.

- Preston Crowell, Cell & Developmental Biology home area, June 2017 – Present
 - Awarded Cellular & Molecular Biology (CMB) Training Grant 2018-2020
 - Awarded Broad Stem Cell Research Center Predoctoral Training Grant 2020-2021
- Hector Navarro, Cell & Developmental Biology home area, March 2018 – January 2020
 - Awarded 2019 National Science Foundation (NSF) Graduate Research Fellowship
- Jenna Giafaglione, Cell & Developmental Biology home area, January 2019 – Present
 - Awarded Cellular & Molecular Biology (CMB) Training Grant 2019-2021
- Matthew Bernard, Gene Regulation home area, March 2020 – Present
 - Awarded Cellular & Molecular Biology (CMB) Training Grant 2020-2021

Thesis Committee member

- Jiayi (Victor) Yu, mentored by Lili Yang, beginning November 2018
- David Shia, mentored by Brigitte Gomperts, beginning May 2018
- Yanruide (Charlie) Li, mentored by Lili Yang, beginning November 2019
- Amy Yu, mentored by Michael Teitell, beginning June 2020
- Heta Desai, mentored by Kerriann Backus, beginning August 2020
- Brandon Nadres, mentored by David Shackelford, beginning September 2020

Other Committees

- UCLA MBIDP PhD Program, Cell & Developmental Biology Home Area Admissions Committee, 2018-present
- UCLA JCCC Intramural Review Committee, 2020-present
- UCLA SPORE in Prostate Cancer Career Enhancement Program Committee, 2020-present
- UCLA SPORE in Prostate Cancer Tissue Utilization Committee, 2020-present

Outreach events

- Keynote Speaker, SACNAS at UCLA Science and Engineering Showcase symposium, May 2019
- Featured Speaker and Bruin Day Ambassador, UCLA's Transfer Bruin Day, May 2019
- Speaker/Panelist, Life of a Professor Workshop, UCLA's Summer Programs for Undergraduate Research, August 2019
- Reviewer/mentor, Personal Statement Workshop, UCLA's Summer Programs for Undergraduate Research, August 2018 and August 2019

CURRENT RESEARCH SUPPORT

1. American Cancer Society Goldstein (PI) 7/01/2017-6/30/2021
Research Scholar Grant: Defining the role of CD38 in prostate cancer
Level of funding: \$165,000/year
Role: PI
2. NIH/NCI 1R01CA237191-01A1 Goldstein (PI) 08/02/2019-07/31/2024
1R01CA237191-01A1: The origins of metabolic reprogramming in prostate cancer
Level of funding: \$210,000/year
Role: PI