

UNIVERSITY OF COLORADO SCHOOL OF MEDICINE
Curriculum Vitae

Date: 7/1/2026

Lauren Fishbein MD, PhD, MTR

Title: Associate Professor
Address: University of Colorado School of Medicine
12801 E. 17th Avenue; MS 8106
Aurora, CO 80045

Rocky Mountain Regional Veteran Affairs Medical Center
1700 N Wheeling St
Aurora, CO 80045

EDUCATION:

Degrees:

1997	BA	Vassar College, Poughkeepsie, NY (Biochemistry)
2004	PhD	University of Florida, Gainesville, FL (Molecular Genetics)
2006	MD	University of Florida, Gainesville, FL
2014	MTR	University of Pennsylvania, Philadelphia, PA (Master's of Translational Research)

Postgraduate Training and Fellowship Appointments:

2006-2009	Intern and Resident, Internal Medicine, Beth Israel Deaconess Medical Center, Harvard University, Boston, MA
2009-2011	Clinical Fellow, Endocrinology, Diabetes and Metabolism, University of Pennsylvania, Philadelphia, PA
2011-2012	Research Fellow, Endocrinology, Diabetes and Metabolism, University of Pennsylvania, Philadelphia, PA

ACADEMIC APPOINTMENTS:

2011-2012	Clinical Associate, Endocrinology, Diabetes and Metabolism, University of Pennsylvania, Philadelphia, PA
2012-2015	Instructor A in Medicine, Endocrinology, Diabetes and Metabolism, University of Pennsylvania, Philadelphia, PA
2015-2020	Assistant Professor in Medicine, Endocrinology, Metabolism and Diabetes, and secondary appointment in Biomedical Informatics and Personalized Medicine, University of Colorado School of Medicine, Aurora, CO
2017-present	Faculty Member of the Cancer Biology Graduate Program, University of Colorado School of Medicine, Aurora, CO
2020-2026	Associate Professor in Medicine, Endocrinology, Metabolism and Diabetes, and secondary appointment in the Department of Biomedical Informatics (formally a division of Dept of Medicine, Biomedical Informatics and Personalized Medicine), University of Colorado School of Medicine, Aurora, CO
2020-present	Faculty Member of the MSTP Program, University of Colorado School of Medicine, Aurora, CO
2024-present	Associate Division Head for Research in the Division of Endocrinology, Metabolism and Diabetes, Department of Medicine, University of Colorado School of Medicine, Aurora, CO

- 2026-present Professor in Medicine, Endocrinology, Metabolism and Diabetes, and secondary appointment in the Department of Biomedical Informatics, University of Colorado School of Medicine, Aurora, CO
- 2026-present Associate Program Director for Clinical Education for MSTP Program, University of Colorado School of Medicine, Aurora, CO

HOSPITAL, GOVERNMENT OR OTHER PROFESSIONAL APPOINTMENTS:

- 2011-2015 Attending Physician, Hospital of the University of Pennsylvania, Philadelphia, PA
- 2011-2015 Attending Physician, Penn Presbyterian Medical Center, University of Pennsylvania, Philadelphia, PA
- 2015-present Attending Physician, University of Colorado Hospital, Aurora, CO
- 2015-present Attending Physician, Rocky Mountain Regional VA Medical Center, Aurora, CO
- 2022-present Director of the Neuroendocrine Tumor Clinical and Research Program, University of Colorado, Aurora, CO

HONORS, SPECIAL RECOGNITIONS AND AWARDS:

- 1997 Vassar College General Honors
- 1997 Vassar College Departmental Honors in Biochemistry
- 1997 The Olive M. Lammert Prize for Excellence in the Study of Biochemistry, Vassar College
- 1998 University of Florida Medical Student Summer Research Grant
- 1999 The American Federation of Medical Research Student Travel Grant to the Experimental Biology Conference
- 2005 Elected to the National Gold Humanism Honor Society, University of Florida Chapman Society Chapter
- 2006 William Osler Internal Medicine Award, University of Florida School of Medicine
- 2006 Community Service Award, University of Florida School of Medicine
- 2007 Medical Housestaff Excellence Award, Beth Israel Deaconess Medical Center
- 2011 Women in Endocrinology Travel Award for the Endocrine Society Meeting
- 2012 The Robert D. Utiger Award for Outstanding Research by an Endocrine Fellow, University of Pennsylvania
- 2013 NANETS Travel Award for the 2013 National North American Neuroendocrine Tumor Society (NANETS) Meeting
- 2013 NANETS Travel Award for the 2014 European Neuroendocrine Tumor Society (ENETS) Meeting
- 2013 Teaching Award from the Medical Student Class of 2016, University of Pennsylvania
- 2014-2015 Measey Scholarship, Department of Medicine, University of Pennsylvania
- 2017 Division of Endocrinology, Metabolism and Diabetes Award for Highest Impact Paper by a Faculty, University of Colorado
- 2017 Honorable Mention for Teaching Award from Endocrine Fellows, University of Colorado
- 2021 Department of Medicine 2021 Rising Star Award, University of Colorado
- 2023 Honoree at the Pheo Para Alliance Gala for "Amplifying the Patient Voice" (Pheo Para Alliance is a nonprofit organization for patient education and advocacy)

2023 Recognized as a designated Center of Research and Clinical Excellence for Pheochromocytoma/Paraganglioma by Pheo Para Alliance for our University of Colorado Multidisciplinary Team for which I am director

MEMBERSHIPS IN PROFESSIONAL ORGANIZATIONS:

1997-1999	American Medical Women's Association
1999-2006	American Society of Human Genetics
2001-2004	Graduate Student Organization, University of Florida IDP chapter
2003-2009	American College of Physicians
2010-present	American College of Clinical Endocrinologists
2010-present	The Endocrine Society <ul style="list-style-type: none"> • <u>Ex-officio early career member</u>, Council (Board of Directors), 2015-2018 • <u>Co-chair</u>, Trainee and Career Development Core Committee, 2015-2018 (Member 2011-2015) • <u>Team Lead</u>, Clinical Adrenal and Pituitary Team for ENDO2021, Annual Meeting Steering Committee, 2020-2021 (Member, 2018-2022) • <u>Co-chair</u>, Adrenal and Pituitary Special Interest Group (SIG), 2019-2021(Member, 2019-2022) • <u>Clinical Science Chair for ENDO2022</u>, Annual Meeting Steering Committee, 2021-2022 (Member, 2018-2022) • <u>Member</u>, Research Affairs Core Committee, 2022-2024 • <u>Overall Chair for ENDO2024</u>, Annual Meeting Steering Committee, 2023-2024 • <u>Member</u>, Board of Directors, June 2024-2027 <ul style="list-style-type: none"> ◦ <u>Chair</u>, Awards and Recognition Subcommittee, 2024-2026
2011-present	Women in Endocrinology
2011-present	North American Neuroendocrine Tumor Society <ul style="list-style-type: none"> • <u>Member</u>, Guidelines and Publications Committee, 2017-2019 • <u>Co-chair</u>, Guidelines Committee, 2020 • <u>Chair</u>, Guidelines Committee, 2021 • <u>Past-Chair</u>, Guidelines Committee, 2022 • <u>Member</u>, Endocrinology Special Interest Group, 2022-present
2014-present	American Association of Cancer Research
2015-present	American-Australian-Asian Adrenal Alliance (A5) International Research Consortium <ul style="list-style-type: none"> • <u>Co-chair</u>, Pheo/Para Working group, 2015-2022 • <u>Executive Chair</u>, A5, 2022-2024

MAJOR COMMITTEE AND SERVICE RESPONSIBILITIES:

Divisional:

2013-2015	Endocrine Fellow Selection Committee, University of Pennsylvania
2019-present	Endocrine Division Social Media Director, University of Colorado
2020	Chair, Endocrine Fellowship Recruitment Committee, University of Colorado
2020-2022	Co-Director of Pituitary Tumor Board, University of Colorado
2021-2025	Director, Endocrine Grand Rounds, University of Colorado
2024-present	Associate Division Head for Research, Division of Endocrinology, Metabolism and Diabetes, University of Colorado

Departmental:

2013-2015	Internal Medicine Resident Selection Committee, University of Pennsylvania
2019-2022	Physician Scientist Training Pathway (PSTP) Admissions Committee, University of Colorado
2019	Internal Medicine Residency Interviewer, University of Colorado
2021-present	Department of Medicine Promotion and Tenure Committee for Assistant to Associate Professor, University of Colorado

School of Medicine:

2013-2015	Institutional Review Board (IRB) at the University of Pennsylvania <ul style="list-style-type: none"> • Member 2013 • Alternate 2014-2015
2017-2019	Cancer Biology Graduate Program Admissions Committee, University of Colorado
2018-2020	Return of Results Roadmap Steering Committee, Colorado Center for Personalized Medicine (CCPM), University of Colorado
2020-2021	MSTP Admissions Interviewer, University of Colorado
2021-present	Biobank Enrollment and Results (BEAR) Committee, Colorado Center for Personalized Medicine (CCPM), University of Colorado
2021-2024	Medical Scientist Training Program (MSTP) Admissions Committee, University of Colorado
2024-2025	MSTP Admissions Interviewer, University of Colorado
2025-2026	MSTP Offer and Rank Subcommittee of the Admissions Committee (ORC), University of Colorado
2026-present	Associate Program Director for Clinical Education for MSTP Program, University of Colorado

Hospital:

2016-2018	Organizing Committee for the Annual Neuroendocrine Tumor Conference for patients at the University of Colorado Hospital <ul style="list-style-type: none"> • 2017 Annual NET Conference • 2018 Annual NET Conference, Chair
2023-present	Director of the Pheo Para Alliance designated Center of Research and Clinical Excellence for Pheochromocytoma/Paraganglioma. Pheo Para Alliance is a non-profit for patient advocacy and education

National:

- 2010-present The Endocrine Society, member
- Member, Board of Directors, June 2024-2027
 - Chair, Awards and Recognition Subcommittee, 2024-2026
 - Overall Chair, Annual Meeting Steering Committee, for ENDO2024 106th Annual Meeting
 - Committee Member, Research Affairs Core Committee, 2022-2024
 - Clinical Science Chair for ENDO2022 104th Annual Meeting
 - Committee Member, Annual Meeting Steering Committee, 2018-2022
 - Team Lead, Clinical Adrenal and Pituitary Team for ENDO2021
 - Co-chair, Adrenal and Pituitary Special Interest Group (SIG) Steering Committee, 2019-2021
 - Faculty member, FLARE (Future Leaders Advancing Research in Endocrinology) program, 2020, 2021
 - Committee Member, FASEB Training and Career Opportunities Subcommittee, Endocrine Society representative, 2015-2021
 - Member, Publications Strategy Working Group, 2015
 - Ex-officio early career member, Council (Board of Directors), 2015-2018
 - Co-chair, Trainee and Career Development Core Committee, 2015-2018
 - Committee Member, Trainee and Career Development Core Committee, 2011-2015
 - Program Chair, Early Career Forum and the Career Development Workshops for the:
 - 95th Annual Meeting of The Endocrine Society, ENDO 2013
 - 96th Annual Meeting of The Endocrine Society, ICE/ENDO 2014
 - 97th Annual Meeting of The Endocrine Society, ENDO 2015
- 2011-present North American Neuroendocrine Tumor Society, member
- Member, Endocrinology Special Interest Group, 2022-present
 - Past-Chair, Guidelines Committee, 2022
 - Chair, Guidelines Committee, 2021
 - Co-chair, Guidelines Committee, 2020
 - Committee Member, Guidelines and Publications Committee, 2017-2019
 - Chair, Metastatic Pheochromocytoma/Paraganglioma Consensus Guideline Working Group (2019-2021)
- 2012-2017 The Cancer Genome Atlas (TCGA) Analysis Working Group Member for the rare cancer effort in pheochromocytoma and paraganglioma
- Data coordinator
 - Manuscript writing subgroup member
 - Clinical data analysis subgroup lead
 - Germline mutation analysis subgroup member
 - Development of enrollment, clinical and follow up forms subgroup member
- 2014-present American Association of Cancer Research, member
- Chair, Clinical Endocrinology Section of the Endocrinology Subcommittee of the 2019 AACR Program Committee, 2018-2019
- 2019-2021 Neuroendocrine Tumor (NET) Clinical Trial Planning Meeting (CTPM) Clinical Trial Design Subcommittee, NIH/NCI, member

2023-present	Endocrine Tumor Predisposition (ENDO-TPS) Variant Curation Expert Panel (VCEP) for ClinGen, committee member
2025-present	American Joint Committee on Cancer (AJCC) v9 Adrenal NET panel for TMN staging for pheochromocytoma/paraganglioma, member

International:

2015-present	American-Australian-Asian Adrenal Alliance (A5) International Research Consortium, member <ul style="list-style-type: none"> • <u>Co-chair</u>, Pheo/Para Working group, 2015-2022 • <u>Executive Chair</u>, A5 International Consortium, 2022-2024
2019-2022	International Organizing Committee for the 6 th International Symposium on Pheochromocytoma/Paraganglioma, held Oct 2022, member (extended due to COVID)
2023-2024	XIXth International Adrenal Meeting Planning Committee, A5 Sponsor Subcommittee Member
2024-2025	International Organizing Committee for the 7 th International Symposium on Pheochromocytoma/Paraganglioma planned for Oct 2025, member

Community:

2019-present	<u>Member</u> , Medical Advisory Board for the Pheo Para Alliance patient advocacy and education nonprofit organization
2023-2026	<u>Chair</u> , Research Advisory Board for the Pheo Para Alliance patient advocacy and education nonprofit organization

LICENSURE AND BOARD CERTIFICATION:Licensure:

2011-2016	State of Pennsylvania Medical License
2015-present	State of Colorado Medical License

Board Certification:

2009	American Board of Internal Medicine Certification in Internal Medicine
2011, 2021	American Board of Internal Medicine Certification in Endocrinology, Diabetes and Metabolism

Certificate or additional training:

2017	JuMP (Junior Faculty Mentoring Program) at the University of Colorado, Aurora, CO <ul style="list-style-type: none"> • Multi-session program to enhance effective mentoring skills of the junior faculty
2023	PAGE Mid-Career Faculty Women's Leadership Development Program at the University of Colorado, Aurora, CO <ul style="list-style-type: none"> • Multi-session program over the year to enhance leadership skills

REVIEW AND REFEREE WORK:Editorial Board:

2014-2016	<i>EndoCareers Magazine</i> , Editor-in-Chief, Endocrine Society (Inaugural Issue March 2014)
2015-2020	<i>Hormones and Cancer</i> , Editorial Board
2022-present	<i>Endocrine Reviews</i> , Associate Editor
2025-2026	<i>Endocrine Related Cancer</i> , Associate Editor

Grant Review Committees and Study Sections:

2017	American Cancer Society, Tumor Biology and Genomics Study Section, <i>Ad hoc</i> grant reviewer (June 2017)
2018	<i>Ad hoc</i> expert grant reviewer: <ul style="list-style-type: none"> • Barts Charity Clinical Research Training Fellowship Grant (Dec 2018) • Polish National Science Center (March 2018)
2021	Neuroendocrine Tumor Research Foundation (NETRF) study section grant reviewer (LOIs review May 2021; full grant review Sept 2021)
2024	American Cancer Society, Experimental Therapeutics Study Section, <i>Ad hoc</i> grant reviewer (January 2024)
2024 - present	VA Merit Award Study Section, ONCA-E, <ul style="list-style-type: none"> • <i>Ad hoc</i> grant reviewer (May 2024) • Member (Dec 2024; June 2025; June 2026)
2024	New Zealand Cancer Research Trust, <i>Ad hoc</i> grant reviewer (Oct 2024)

Ad hoc Reviewer for Journals, Professional Societies and Scientific Meetings:

Ad hoc Reviewer for Journals: *Nature Reviews Endocrinology, Clinical Cancer Research, Genetics in Medicine, Endocrine-Related Cancer, Oncogene, Endocrinology, Journal of Clinical Endocrinology and Metabolism, European Journal of Endocrinology, Endocrine Oncology, Journal of Hypertension, Hormone and Metabolic Research, Endocrine Practice, Genomic Medicine, OncoTarget, Journal of the Endocrine Society, Cancers, Molecular and Cellular Endocrinology, Neuroendocrinology, Thyroid, Endocrine, Journal of the National Cancer Institute, Familial Cancer, Endocrine Pathology, Journal of Pediatric Endocrinology and Metabolism, The Oncologist, Cardiovascular Endocrinology, Medicine, World Journal of Surgical Oncology, Journal of Cancer Research and Clinical Oncology, BMC Nephrology, Anti-Cancer Drugs, Trends in Cancer, and Endocrinology, Diabetes and Metabolism Case Reports*

Ad hoc Reviewer for Professional Societies and Scientific Meetings:

2016-present	Endocrine Society <ul style="list-style-type: none"> • <u>Awards reviewer</u>, Summer Research Fellowship (2016, 2017); Early Investigator Awards (2016, 2017), Excellence in Research Awards (2016, 2017) • <u>Abstract reviewer</u> for annual meeting (2017-present)
2017-present	North American Neuroendocrine Tumor Society <ul style="list-style-type: none"> • <u>Abstract reviewer</u> for annual meeting (2017; 2018)
2018-present	American Association of Cancer Researchers (AACR) <ul style="list-style-type: none"> • <u>Abstract reviewer</u> for annual meeting (2019)

INVITED LECTURES, PRESENTATIONS AND VISITING PROFESSORSHIPS:

Local:

Appointment at University of Pennsylvania:

May 6, 2011	“Genetics and Clinical Characteristics of Patients with Pheochromocytomas and Paragangliomas” at the Genes, Genomes, and Pediatric Disease Affinity Group Grand Rounds, Children’s Hospital at Philadelphia, Philadelphia, PA
Nov. 2, 2012	“Penn Pheochromocytoma/Paraganglioma Research” at the 2 nd Annual Focus on Neuroendocrine Tumors: Patient and Caregiver Conference, Abramson Cancer Center, Philadelphia, PA

- Sept. 27, 2013 “Research Studies for NETs” at the 3rd Annual Focus on Neuroendocrine Tumors: Patient and Caregiver Conference, Abramson Cancer Center, Philadelphia, PA
- Dec. 4, 2013 “Germline and Somatic Genetics of Pheochromocytomas and Paragangliomas” for Endocrinology Grand Rounds, Hospital of the University of Pennsylvania, Philadelphia, PA
- Oct. 24, 2014 “Research update from the Penn NET Center” at the 4rd Annual Focus on Neuroendocrine Tumors: Patient and Caregiver Conference, Abramson Cancer Center, Philadelphia, PA
- Feb. 11, 2015 “Molecular Genetic Testing” for the Endocrinology Grand Rounds at the Hospital of the University of Pennsylvania, Philadelphia, PA
- Appointment at University of Colorado:
- Nov. 6, 2015 “Pheochromocytomas and Paragangliomas” for the Pediatric Endocrinology Endocrine Quarterly Conference at the University of Colorado, Aurora, CO
- May 18, 2016 “Integrated Genomics of Pheochromocytoma and Paraganglioma” for the Endocrine Research Conference at the University of Colorado, Aurora, CO
- June 1, 2016 “Pheochromocytomas and Paragangliomas: Complex Genetic Background” for the Clinical Genetics and Metabolism Grand Rounds at the University of Colorado, Aurora CO
- Sept. 21, 2016 “Adrenal Incidentalomas: To follow or not to follow – that is the question” for the Endocrinology Grand Rounds at the University of Colorado, Aurora, CO
- Nov. 15, 2016 “Hereditary and somatic genetics of pheochromocytomas: Insights into metastatic potential” for the Cancer Center Symposium at the University of Colorado, Aurora, CO
- Dec. 8, 2016 “Unraveling the mysteries of neuroendocrine tumorigenesis” for the Cancer Biology Program at the University of Colorado, Aurora, CO
- Feb. 4, 2017 “Hormones and Endocrine Tumors” at the 5th Annual Neuroendocrine Tumor Conference for patients, University of Colorado Hospital, Aurora, CO
- March 22, 2017 “Germline and somatic genetics in pheochromocytomas and paragangliomas” for the Biomedical Informatics and Personalized Medicine Research Conference at the University of Colorado, Aurora, CO
- April 6, 2017 “Integrative Genomics: Insights into Rare Neuroendocrine Tumors” at the 4th Annual Mini-Symposium “The Power of Informatics to Advance Health”, University of Colorado Anschutz Medical Campus, Aurora, CO

- Dec. 6, 2017 “Personalized Medicine for Patients with Neuroendocrine Tumors” for the Biomedical Informatics and Personalized Medicine Research Conference at the University of Colorado, Aurora, CO
- Feb. 1, 2018 “Genetics of the Mysterious Pheochromocytoma” at the Research and Innovations Conference Series for the Department of Medicine at the University of Colorado, Aurora, CO
- Feb. 3, 2018 “What happens at a multi-disciplinary tumor board? Mock Tumor Board” at the 6th Annual Mid-Winter Neuroendocrine Tumor Conference for patients, University of Colorado Hospital, Aurora, CO
- Feb. 23, 2018 “Endocrine Tumors” at the Human Anatomy Research Seminar Series at the University of Colorado, Aurora, CO
- March 8, 2018 “Adrenal Nodules: Diagnosis and Hormonal Syndromes” for the Special Session at the Thyroid and Adrenal Tumor Board at the University of Colorado Hospital, Aurora, CO
- April 12, 2018 “Neuroendocrine Tumorigenesis” for the Endocrine Research Conference at the University of Colorado, Aurora, CO
- Sept 26, 2018 “Risk Modifiers of *SDHB*-associated PCC/PGL” for the Biomedical Informatics and Personalized Medicine Research Conference at the University of Colorado, Aurora, CO
- Oct 20, 2018 “Endocrinology and VHL: The adrenal and the pancreas” at the VHL Alliance Family Weekend at the University of Colorado, Aurora, CO
- Nov 2, 2018 “Investigating drivers of neuroendocrine tumor formation and metastases” at the University of Colorado Cancer Biology Graduate Program Retreat, Denver, CO
- Nov 9, 2018 “Investigating the role of MAML3 in SCLC metastases” at the Lung Cancer Spore Research in Progress Seminar at the University of Colorado, Aurora, CO
- Nov 14, 2018 “Primary Aldosteronism: diagnosis, treatment and genetics” at Endocrinology Grand Rounds at the University of Colorado, Aurora, CO
- Dec 18, 2019 “Inherited risk of paraganglioma-pheochromocytoma in *SDHx* carriers” for the Biomedical Informatics and Personalized Medicine Research Conference at the University of Colorado, Aurora, CO
- Jan 23, 2020 “Head and Neck Paraganglioma: Genetics and Management” for Department of Otolaryngology at the University of Colorado, Aurora, CO
- March 9, 2020 “Perioperative management of pheochromocytoma/paraganglioma” for Pediatric Endocrinology at the Children’s Hospital of Colorado, Aurora, CO
- June 23, 2020 “Pheochromocytoma/Paraganglioma Diagnosis, Management and Genetics” for Pediatric Hematology/Oncology at the Children’s Hospital of Colorado, Aurora, CO

- Sept 2, 2020 “Secondary Hypertension: When Hormones Run Amok” for Department of Medicine Grand Rounds at the University of Colorado, Aurora, CO
- Oct 21, 2020 “Mysterious Pheo Para: What you need to know” for Endocrinology Grand Rounds at the University of Colorado, Aurora, CO
- March 1, 2021 “The Two AIs: Adrenal Insufficiency and Adrenal Incidentalomas” for University of Colorado Hospital ECHO Program at the University of Colorado, Aurora, CO
- March 18, 2021 “Inherited and Somatic Genetics of Pheochromocytoma and Paraganglioma” for Department of Medicine Research and Innovation Conference at the University of Colorado, Aurora, CO
- Aug 27, 2021 “The other neuroendocrine tumor, PPGL” for Pancreatic Cancer Research Group at the University of Colorado, Aurora, CO
- Sept 22, 2021 “Genetic Insights into Pheochromocytoma/Paraganglioma” for Endocrinology Research Conference at the University of Colorado, Aurora, CO
- Dec 16, 2021 “PGL/PCC and other endocrine syndromes” for the UCHealth System Genetic Counselor Retreat, Aurora, CO
- Feb 25, 2022 “Scientific Communication” for the MSTP Retreat, University of Colorado, Aurora, CO
- May 3, 2023 “Adrenal Incidentalomas: Evaluation and Follow up” for Endocrinology Grand Rounds at the University of Colorado, Aurora, CO
- May 31, 2023 “Deciphering metastatic potential in PPGL neuroendocrine tumors” for Endocrine Research Conference at the University of Colorado, Aurora, CO
- Sept 25, 2024 “Pheochromocytoma and paraganglioma 101” for Endocrinology Grand Rounds at the University of Colorado, Aurora, CO
- Oct 8, 2025 “Inherited and Somatic Genetics of Pheochromocytoma” for Endocrinology Research Conference at the University of Colorado, Aurora, CO
- April 22, 2026 “Toward precision medicine for pheochromocytoma” for Endocrinology Grand Rounds at the University of Colorado, Aurora, CO

Regional:

Appointment at University of Colorado:

- July 22, 2016 “A Zebra Cancer” for the Rotary Club, Evergreen, CO
- Jan. 20, 2018 “Pheochromocytoma and Paraganglioma: Diagnosis and Management” at the 54th Clinical Diabetes and Endocrinology in 2018 Meeting, Snowmass, CO

- Jan 14, 2019 “Multiple Endocrine Neoplasia Syndromes: Update on Genetics, Screening and Management” at the 55th Clinical Diabetes and Endocrinology Institute Annual Meeting in Snowmass, CO
- Jan 14, 2019 “Cases from the Adrenal Clinic” at the 55th Clinical Diabetes and Endocrinology Institute Annual Meeting in Snowmass, CO
- Aug. 10, 2019 “Ins and Outs of NETs: Know your genetics” at the Neuroendocrine Tumor Research Foundation Regional Patient and Caregiver Conference, Denver, CO
- Jan 22, 2023 “Theranostics: An Endocrinologist’s perspective” at the 58th Clinical Diabetes and Endocrinology Institute Annual Meeting in Snowmass, CO
- Jan 22, 2023 “Immune checkpoint inhibitor mediated pituitary/adrenal disorders” part of symposium “Immune checkpoint inhibitor endocrinopathies” at the 58th Clinical Diabetes and Endocrinology Institute Annual Meeting in Snowmass, CO
- Jan 25, 2025 “The adrenal incidentaloma guidelines and mild autonomous cortisol secretion (MACS)” at the 60th Clinical Diabetes and Endocrinology Institute Annual Meeting in Vail, CO
- Jan 28, 2025 “When to consider genetic testing for endocrine neoplasms” at the 60th Clinical Diabetes and Endocrinology Institute Annual Meeting in Vail, CO
- Feb 5, 2025 “Hereditary genetics of paraganglioma” at the 2025 Ultimate Colorado Mid-Winter Meeting: An otolaryngology Update and Otolaryngology-Audiology Conference in Vail, CO (recorded)

National:

Appointment at University of Pennsylvania:

- July 22, 2014 “Pheochromocytomas: No longer the tumor of tens” for the Endocrinology Grand Rounds at the University of Colorado, Aurora, CO
- July 22, 2014 “Genetics of Pheochromocytoma and Paraganglioma” for the Endocrine Research Conference at the University of Colorado, Aurora, CO
- Sept. 30, 2014 “Pheochromocytomas: No longer the tumor of tens” for the Endocrinology Grand Rounds at the University of Virginia, Charlottesville, VA
- Oct. 11, 2014 “Complicated Case Presentation on Malignant Pheochromocytoma” at the 2014 North American Neuroendocrine Tumor Society (NANETS) Annual Meeting, Nashville, TN
- Nov. 14, 2014 “Understanding Pheochromocytoma and Paraganglioma” for the MEND Research Conference at the University of Michigan, Ann Arbor, Michigan
- March 27, 2015 “Genetics of Pheochromocytomas and Paragangliomas: Hints towards understanding clinically aggressive disease” for Endocrine Research Seminar at MD Anderson Cancer Center, Houston, TX

Appointment at University
of Colorado:

- April 2, 2016 "Meet the Professor: Pheochromocytomas and Paragangliomas" at ENDO 2016, 98th annual meeting of the Endocrine Society, Boston, MA
- July 16, 2016 "Women in Academic Medicine" for the 31st Annual National MD/PhD Student Conference, Keystone, CO
- Sept. 23, 2017 "Pheochromocytoma and Paraganglioma: A zebra among horses" at the Mid-Atlantic AACE Symposium, Washington DC
- Oct. 18, 2017 "Unraveling the Mysteries of Pheochromocytomas and Paragangliomas" for the Endocrinology Grand Rounds at the University of Pennsylvania, Philadelphia, PA
- Oct. 19, 2017 "Clinical Conundrums in Pheochromocytoma and Paraganglioma" for the Endocrinology Grand Rounds at Temple University, Philadelphia, PA
- Oct. 20, 2017 "MEN1: Clinical and Psychological Impact on Patients" at the 10th Annual North American Neuroendocrine Tumor Society (NANETS) Meeting, Philadelphia, PA
- Oct. 21, 2017 "Pheochromocytoma/Paraganglioma: Diagnosis and Medical Management" at the 10th Annual North American Neuroendocrine Tumor Society (NANETS) Meeting, Philadelphia, PA
- March 17, 2018 Co-Chair of Oral Abstract Session "Adrenal Late-Breaking Oral Abstracts" at ENDO 2018, 100th Annual Meeting of the Endocrine Society, Chicago, IL
- March 17, 2018 "Meet the Professor: Pheochromocytoma in Adults and Children" at ENDO 2018, 100th Annual Meeting of the Endocrine Society, Chicago, IL
- March 18, 2018 "Screening and Surveillance: Is Tumor Prevention Achievable in Mutation Carriers?" part of Symposium on "Precision Medicine Comes to Pheochromocytoma" at ENDO 2018, 100th Annual Meeting of the Endocrine Society, Chicago, IL
- Oct 4, 2018 "Hormones in Functional Neuroendocrine Tumors" at the 11th Annual North American Neuroendocrine Tumor Society (NANETS) Meeting, Seattle, WA
- Oct 4, 2018 "Building Multi-Institutional Collaborations" at the 11th Annual North American Neuroendocrine Tumor Society (NANETS) Meeting, Seattle, WA
- Oct 24, 2018 "The Mysteries of Pheochromocytomas and Paragangliomas" for Endocrinology Grand Rounds at Brown University, Providence, RI
- March 8, 2019 Invited Keynote Speaker: "The Role of the Endocrinologist in the Management of NETs" at the 8th Annual University of Pennsylvania Focus on Neuroendocrine Tumors Patient and Caregiver Program, in Philadelphia, PA

- March 24, 2019 “Setting up and managing your lab” Career Development Workshop Panel at ENDO 2019, 101th Annual Meeting of the Endocrine Society, New Orleans, LA
- June 7, 2019 “Pheochromocytoma and Paraganglioma Diagnostics” at the Pheo Para International Conference in Syracuse, NY
- Sept 20, 2019 “Challenges of managing paraganglioma and pheochromocytoma” at the Endocrine Society Clinical Endocrinology Update, Seattle, WA
- Oct 4, 2019 “Genomic landscape of pheochromocytoma and paraganglioma” at the 12th Annual North American Neuroendocrine Tumor Society (NANETS) Meeting, Boston, MA
- Oct 4, 2019 Co-Chair symposium entitled “Pheochromocytoma and Paraganglioma” at the 12th Annual North American Neuroendocrine Tumor Society (NANETS) Meeting, Boston, MA
- Jan 27, 2020 “Pheo Para Genetics” webinar for the PheoPara Alliance for providers and patients and caregivers. [over 100 live online attendees]
- Feb 7, 2020 “Job Search: From CV Development to Negotiating” at the Endocrine Society’s Future Leaders Advancing Research in Endocrinology (FLARE) Workshop, Austin, TX
- March 28, 2020 “Adrenal and Pituitary Special Interest Group: Beware of Clinical Pitfalls” at the ENDO 2020, 102th Annual Meeting of the Endocrine Society, New Orleans, LA – *Canceled due to COVID-19 pandemic.*
- May 9, 2020 Chair symposium entitled “In Depth Panel on Neuroendocrine Tumors” at the 29th Annual Scientific and Clinical Congress of the American Association of Clinical Endocrinologists (AACE), Washington DC – *Canceled due to COVID-19 pandemic.*
- May 9, 2020 “Genetics Update on Neuroendocrine Tumors” at the 29th Annual Scientific and Clinical Congress of the American Association of Clinical Endocrinologists (AACE), Washington DC – *Canceled due to COVID-19 pandemic.*
- June 29, 2020 Moderator, live webinar “The paper that changed my practice” for the Endocrine Society Adrenal and Pituitary Special Interest Group for clinicians and providers. [161 attendees and 168 playbacks as of Aug 5, 2020]
- Sept 16, 2020 “Hereditary Syndromes with NETs: MEN1/2, VHL, Pheochromocytoma/Paraganglioma” for the North American Neuroendocrine Tumor Society (NANETS) webinar for clinicians and providers
- Sept 25, 2020 “Pheochromocytoma and Paraganglioma: No longer the tumor of tens” for Endocrine Grand Rounds at Beth Israel Deaconess Medical Center, Boston, MA (Held virtually due to COVID-19 pandemic)

- Oct 3, 2020 Chair session “NET Medical Session 5: Current Controversies in NETS” at the 13th Annual North American Neuroendocrine Tumor Society (NANETS) Meeting, Montreal (Held virtually due to COVID-19 pandemic)
- Oct 10, 2020 “Inherited risk factors for NETs” at the Neuroendocrine Tumor Research Foundation (NETRF) Virtual Conference, “Know your NETs” for providers, patients and caregivers.
- Dec 9, 2020 “Pheochromocytoma and Paraganglioma: No longer the tumor of tens.” Clinical and research update at Stanford University Endocrinology Grand Rounds, Palo Alto, CA (Held virtually due to COVID-19 pandemic)
- Dec 11, 2020 “Unraveling the Mysterious Pheochromocytoma and Paraganglioma” at University of Texas Southwestern Endocrinology Grand Rounds, Dallas, TX (Held virtually due to COVID-19 pandemic)
- March 21, 2021 Moderator/Chair for Meet the Professor Session “Selection, Dosing, and Monitoring of Steroid Replacement in the Patient with Adrenal Failure” for Endocrine Society Annual Meeting ENDO2021, 103th Annual Meeting of the Endocrine Society, San Diego, CA (Held virtually due to COVID-19 pandemic)
- April 28, 2021 “Building and Managing the Laboratory” at the Endocrine Society’s Future Leaders Advancing Research in Endocrinology (FLARE) Workshop 2021. (Held virtually due to COVID-19 pandemic)
- May 17, 2021 “Pheochromocytoma and Paraganglioma: Predicting Penetrance and Aggressive Disease” at George Washington University Endocrinology Grand Rounds, Washington, D.C. (Held virtually due to COVID-19 pandemic)
- June 30, 2021 “Pheochromocytoma/ Paraganglioma: Risk and Tumorigenesis” at University of Pennsylvania Endocrinology Division Seminar, Philadelphia, PA (held virtually due to COVID-19 pandemic)
- Aug 8, 2021 “Hereditary Pheochromocytoma and Paraganglioma: Strategies for Screening and Surveillance” MyCME webinar
- Sept 11, 2021 “Meet the Professor: Tips for Clinicians for Genetic Evaluations of Adrenal Disorders” at the 2021 Endocrine Society Clinical Endocrinology Update (held virtually due to COVID-19 pandemic)
- Sept 11, 2021 “Master Clinician: Perspectives on Chromaffin Tumors” moderator (developed case presentations for discussion with panelists) at the 2021 Endocrine Society Clinical Endocrinology Update (held virtually due to COVID-19 pandemic)
- Oct 8, 2021 “SDH_x: Fill in the blank” at the US Oncology Network GREAT 11th Annual Virtual Genetics Conference on Hereditary Cancers: Advanced Topics for Community Oncology Providers

- Nov 5, 2021 "Treatment of Metastatic Pheochromocytoma and Paraganglioma" at the 14th Annual North American Neuroendocrine Tumor Society (NANETS) Meeting (held virtually due to COVID-19 pandemic)
- Nov 15, 2021 "Pheochromocytoma and Paraganglioma: Bedside to Bench and Back" at Boston Medical Center Boston University Endocrinology Grand Rounds, Boston, MA (held virtually due to COVID-19 pandemic)
- Feb 28, 2022 "Unique Cases of Pheochromocytoma/Paraganglioma" for Endocrine Society Webinar of Clinical Vignettes to Ask the Expert. (over 100 live attendees)
- April 1, 2022 "Adrenal Incidentalomas: Evaluation and Follow up" for Updates in Endocrinology 2022, CME course through NYU Langone Health.
- April 8, 2022 "Fascinating Pheochromocytoma: Biology, Genetics and Human Disease" for University of North Florida Biology Seminar Series, Jacksonville, FL (held virtually due to COVID-19 pandemic)
- April 27, 2022 "Pheochromocytoma and Paraganglioma: Predicting Penetrance and Metastatic Disease" for Johns Hopkins University Endocrinology Grand Rounds, Baltimore, MD (held virtually due to COVID-19 pandemic)
- June 10, 2022 "Master the Art of the Search" at the Early Career Forum for the Endocrine Society Annual Meeting ENDO2022, 104th Annual Meeting of the Endocrine Society, Atlanta, GA
- June 25, 2022 "Hormone Management and Symptom Control of NETs" for the NANETS Regional NET Provider Education meeting in Portland, OR
- June 25, 2022 "Pheo Para Overview" for the NANETS Regional NET Provider Education meeting in Portland, OR
- June 26, 2022 "Pheo Para 101, including genetics" for the PheoPara Alliance Patient and Caregiver conference in Portland, OR
- July 24, 2022 "Pheo/Para and Genetics" for the Neuroendocrine Tumor Research Foundation Patient and Caregiver conference (held virtually due to COVID-19 pandemic)
- Sept 26, 2022 "Bedside to bench and back: pheochromocytomas and paragangliomas" at the University of Rochester Endocrinology Grand Rounds, Rochester, NY. Visiting Professor
- Oct 27, 2022 "Grant Writing 101" at the Early Career Symposium at the 15th Annual North American Neuroendocrine Tumor Society (NANETS) Meeting, Washington, DC.
- Nov 29, 2022 "No longer the tumor of tens: pheochromocytomas and paraganglioma" at Baystate Medical Center University of Massachusetts Endocrinology Grand Rounds, Springfield, MA (held virtually)

- Feb 15, 2023 “Fascinating Pheochromocytoma: Genetics and Human Disease” at the Mayo Clinic Endocrinology Grand Rounds, Rochester, MN (held virtually)
- March 10, 2023 **Invited Professorship for the 10th annual David E. Schteingart Lecture at the University of Michigan** - “Pheochromocytoma and Paraganglioma: Predicting Penetrance and Metastatic Disease.” Ann Arbor, MI. Visiting Professor
- March 16, 2023 “Screening and Surveillance of Patients with PPGL Syndrome” part of Symposium on “Paraganglioma Pheochromocytoma Syndrome: Genetics, Management and Basic Science” at the American College of Medicine Genetics (ACMG) Annual Clinical Genetics Meeting 2023, Salt Lake City, UT.
- April 14, 2023 “Pheochromocytoma and Paraganglioma: Germline and Somatic Genetics” at the Oregon Health and Science University (OHSU) Endocrine Grand Rounds, Portland, OR (held virtually)
- April 19, 2023 “Adrenal Awareness Month Webinar” panel discussion on Facebook Live for the public. Hosted by the American Association for Endocrine Surgeons (AAES) and National Adrenal Disorders Foundation (NADF). (held virtually)
- May 16, 2023 “Pheochromocytoma and Paraganglioma: Predicting Penetrance and Metastatic Disease” at the Keck School of Medicine of University of Southern California (USC) Endocrine Grand Rounds, Los Angeles, CA (held virtually)
- June 10, 2023 “Hormonal management and symptom control for NETs” for the NANETS Regional NET Provider Education meeting at the UH Seidman Cancer Center, Cleveland, Ohio
- June 14, 2023 “Research Career Options” at the Early Career Forum for the Endocrine Society Annual Meeting ENDO2023, 105th Annual Meeting of the Endocrine Society, Chicago, IL
- June 14, 2023 “Interview skills and chalk talk tips” at the Early Career Forum for the Endocrine Society Annual Meeting ENDO2023, 105th Annual Meeting of the Endocrine Society, Chicago, IL
- June 16, 2023 Chair for Oral Abstract session entitled “Adrenal Neoplasms” for the Endocrine Society Annual Meeting ENDO2023, 105th Annual Meeting of the Endocrine Society, Chicago, IL
- Sept 1, 2023 “Paraganglioma: Genetics and Treatment Update” for the House Institute Foundation House Ear Clinic Grand Rounds, Los Angeles, CA (held virtually)
- Nov 11, 2023 “Guideline review for adrenal incidentalomas and mild autonomous cortisol secretion (MACS)” for the Philadelphia Endocrine Society Adrenal Symposia, Philadelphia, PA

- Dec 7, 2023 **Invited Professorship for the 1st annual Dr. Thomas O’Dorisio Lectureship at the University of Iowa.** “Mysterious metastatic pheochromocytoma/paraganglioma” for Endocrinology Grand Rounds at the University of Iowa, Iowa City, IA. Visiting Professor
- Dec 7, 2023 **Invited Professorship for the 1st annual Dr. Thomas O’Dorisio Lectureship at the University of Iowa.** “No longer the tumor of tens: pheochromocytoma/paraganglioma” for Internal Medicine Grand Rounds at the University of Iowa, Iowa City, IA. Visiting Professor
- April 3, 2024 “Adrenal incidentalomas and mild autonomous cortisol secretion (MACS)” for the University of Pennsylvania fellowship program, Philadelphia, PA (held virtually)
- April 20, 2024 “Role of Genetics in Adrenal Tumors” for the American Association of Endocrine Surgeons (AAES) annual meeting, 2024, Dallas, TX (recorded due to illness)
- May 31, 2024 “ENDO A to Z” at the Early Career Forum for the Endocrine Society Annual Meeting ENDO2024, 106th Annual Meeting of the Endocrine Society, Boston, MA
- Oct 31, 2024 **Endowed Lectureship. “Incidental Adrenal Nodules: What to do?” for the Department of Internal Medicine Grands Rounds, Henry Schein Annual Lecture** in Endocrinology for Northwell Health, Northwell University Hospital, Great Neck, NY (held virtually)
- April 16, 2025 “Genetics of pheochromocytoma/paraganglioma” for the Wayne State University (WSU) Endocrine Grand Rounds, Detroit, MI (held virtually)
- July 11, 2025 “ENDO A to Z” at the Early Career Forum for the Endocrine Society Annual Meeting ENDO2025, 107th Annual Meeting of the Endocrine Society, San Francisco, CA
- July 15, 2025 “Novel Insights in the Mechanisms of Pheochromocytoma and Paraganglioma” symposium at ENDO2025, the 107th Annual Meeting of the Endocrine Society, San Francisco, CA
- Aug 17, 2025 “Updates on pheo” at the Carolinas Society of Endocrinologists 2025 Annual Meeting, Asheville, NC
- Aug 17, 2025 “Adrenal Incidentalomas and Mild Autonomous Cortisol Secretion” at the Carolinas Society of Endocrinologists 2025 Annual Meeting, Asheville, NC
- Oct 10, 2025 “Predicting and Treating Metastatic Pheochromocytoma” at Endocrinology Grand Rounds at Stony Brook University, NY (virtual)
- Oct 15, 2025 “Fascinating Pheochromocytoma: Germline and Somatic Genetics” at Endocrinology Grand Rounds at UCSF, San Francisco, CA

- Oct 30, 2025 **Invited Professorship for the 2025 J. Lester Gabrilove, MD Lecture at Icahn School of Medicine at Mount Sinai** entitled “Pheochromocytoma/Paraganglioma: no longer the tumor of tens” in NYC, NY
- Feb 27, 2026 “Fascinating Pheochromocytoma” at Endocrinology Grand Rounds at Moffitt Cancer Center at the University of South Florida, Tampa, FL
- April 7, 2026 “Adrenal Awareness: Separating Myth from Fact” for the International Adrenal Disease Awareness Day Webinar for patients and caregivers, organized by the American Association of Endocrine Surgeons (AAES). Panelist. (over 350 registrants)
- June 12, 2026 “ENDO A to Z” at the Early Career Forum for the Endocrine Society Annual Meeting ENDO2026, 108th Annual Meeting of the Endocrine Society, Chicago, IL
- June 12, 2026 “Physician Scientist Career Options” panelist at the Early Career Forum for the Endocrine Society Annual Meeting ENDO2026, 108th Annual Meeting of the Endocrine Society, Chicago, IL
- June 14, 2026 Chair of oral abstract session “New therapies and perspectives for congenital adrenal hyperplasia and adrenal insufficiency” at the Endocrine Society Annual Meeting ENDO2026, 108th Annual Meeting of the Endocrine Society, Chicago, IL
- June 14, 2026 Expert response for “Functional suppression of a prolactinoma by a dopamine-secreting paraganglioma” at the Endocrine Society Annual Meeting ENDO2026, 108th Annual Meeting of the Endocrine Society, Chicago, IL

International:

Appointment at University of Pennsylvania:

- March 7, 2014 “Succinate Dehydrogenase Subunit B Immunohistochemistry in Pheochromocytoma and Paraganglioma” for the Young Investigator Symposium at the European Neuroendocrine Tumor Society annual meeting (ENETS 2014), Barcelona, Spain

Appointment at University of Colorado:

- Aug 30, 2017 “The TCGA data on pheochromocytoma and paraganglioma” at the 5th International Symposium on Pheochromocytoma and Paraganglioma 2017, Sydney, Australia
- Dec 3, 2018 “Pheochromocytoma/Paraganglioma Syndromes (Genomics of Pheo/Para)” at the 18th International Congress of Endocrinology (ICE) 2018 meeting in Cape Town, South Africa

- Aug 24, 2022 (USA time) “Diagnosis and treatment of paragangliomas and pheochromocytomas” symposium for the 20th International Congress of Endocrinology/18th Asia Oceania Congress of Endocrinology/21st Asean Federation of Endocrine Societies Congress (ICE/AOCE/AFES 2022 Congress) in Singapore (converted to virtual meeting given the COVID-19 pandemic; recorded with live Q&A)
- Aug 25, 2022 (USA time) “The genetics and pathogenesis of pheochromocytomas” symposium for the 20th International Congress of Endocrinology/18th Asia Oceania Congress of Endocrinology/21st Asean Federation of Endocrine Societies Congress (ICE/AOCE/AFES 2022 Congress) in Singapore (converted to virtual meeting given the COVID-19 pandemic; recorded with live Q&A)
- Sept 5, 2022 “Genetics of Pheochromocytoma and Paraganglioma: Where are we?” for the 35th Brazilian Congress of Endocrinology and Metabolism, BEST (Brazilian-Endocrine Societies Trail) symposium, in Sao Paulo, Brazil.
- Oct 19, 2022 “Patient centered research and management with Pheo Para Alliance to improve patient care” at the 6th International Symposium of Pheochromocytoma and Paraganglioma, Prague, Czech Republic. (Recorded due to COVID)
- Oct 21, 2022 “Predicting metastatic PPGL: genetic, genomics, and histopathological markers” for the 6th International Symposium of Pheochromocytoma and Paraganglioma, Prague, Czech Republic. (Recorded due to COVID)
- March 2, 2024 “Management of Pheochromocytoma/Paraganglioma” for the 21st International Congress of Endocrinology (ICE 2024) meeting in Dubai, UAE.
- March 3, 2024 “Screening and Monitoring of Endocrine Genetic Disorders” for the 21st International Congress of Endocrinology (ICE 2024) meeting in Dubai, UAE.
- May 24, 2024 “Genomics of pheochromocytoma/paraganglioma” for the International Endocrinology and Adrenal Oncology Course for the Chilean Society of Endocrinology and Diabetes (SOCHED) (hybrid meeting; recorded talk with live virtual Q&A).
- Nov 23, 2024 Co-Chair for session H on the Future for ACC Care at the 9th International Adrenal Cancer Symposium in Houston, TX.
- May 16, 2025 “The cutting edge of pheochromocytoma genetics and management” at SEMDSA 2025, the 57th annual congress of the Society for Endocrinology, Metabolism and Diabetes of South Africa. Durban, South Africa (held live virtually)
- May 17, 2025 “Adrenal incidentaloma and mild autonomous cortisol secretion” at SEMDSA 2025, the 57th annual congress of the Society for Endocrinology, Metabolism and Diabetes of South Africa. Durban, South Africa (held virtually; recorded)

- June 16, 2025 “Paraganglioma/Pheochromocytoma” at the 19th WorldMEN International Workshop on Multiple Endocrine Neoplasia and Other Rare Endocrine Tumors in Sao Paulo, Brazil. (held live virtually – due to institutional travel restrictions)
- Sept 18, 2025 Co-Chair of symposium “Influence of sex, ethnicity and geography on PPGL” at the 7th International Symposium on Pheochromocytoma and Paraganglioma (ISP 2025) in Montreal, Canada
- Sept 19, 2025 “Genetic modifiers of pheochromocytoma and paraganglioma” research symposium talk at the 7th International Symposium on Pheochromocytoma and Paraganglioma (ISP 2025) in Montreal, Canada

Podcasts:

- March 30, 2021 NETWise PodCast by the NETRF (Neuroendocrine Tumor Research Foundation). Featured speaker for “Episode 13: NETs and Genetic Screening. Understanding the relationship between NETs and genetics.”
- June 2, 2021 NETWise PodCast by the NETRF (Neuroendocrine Tumor Research Foundation). Featured speaker for “Episode 14: Pheos and Paras – NETS known as “the Great Mimic.”

TEACHING RECORD:

Undergraduate:

- 1996 Teaching Assistant, Biology Lab course 151, Vassar College
- 1997 Teaching Assistant, Biochemistry Lab course 238, Vassar College
- 2016-2018 Co-director, Endocrine Society Summer Research Fellowship, Undergraduate, Medical and early Graduate Students 12 part Career Development Webinar Series, (Developed curriculum for inaugural year), 2016-2017 and 2017-2018

Medical and Graduate Students:

- 2010-2015 Medical student teaching, Endocrine Pathophysiology, University of Pennsylvania
 - Small Group Discussion Leader (2010, 2012, 2014) – 2 hours contact time each
 - Adrenal
 - Pituitary
 - Thyroid
 - Diabetes
 - Lecturer (2013, 2014, 2015) – 1 hour contact time each
 - Adrenal Physiology
 - Adrenal Pharmacology

- 2015-2021 Medical student teaching, DEMS (Diabetes, Endocrinology, Metabolism Series), University of Colorado School of Medicine
 - Lecturer (2016, 2017, 2019, 2020, 2021) – 1.5 hour contact time
 - Adrenal Disorders
 - Small Group Discussion Leader – 1.5 -2 hours contact time each
 - Thyroid (2015, 2016, 2019, 2020, 2021)
 - Adrenal Disorders (2016, 2017, 2019, 2020, 2021)
 - Obesity and Lipids (2018, 2019)
 - Pituitary (2019, 2020, 2021)
- 2018-2019 Medical student teaching, Personalized Medicine Elective, University of Colorado School of Medicine
 - Lecturer discussion – 1 hour contact time each
 - Endocrine Cancer Predisposition Genetics (March, 2018)
 - Introduction to Personalized/Precision Medicine (Feb, 2019)
- 2022-2024 MSTP student teaching, Molecules to Medicine Course, University of Colorado School of Medicine
 - Facilitator – 2 hour contact time (March, 2022; March 2023; Jan 2024)
- 2023; 2025 Cancer Biology graduate program journal club facilitator – 1 hour contact time (Oct 2023; Oct 2025)
- 2026 Integrative Physiology graduate program, Comprehensive Physiology course, IPHY 7800 Lecture, University of Colorado School of Medicine
 - Lecturer (April 2026) – 3 hour contact time
 - Adrenal Physiology and Pathophysiology

House Officers
(residents/fellows):

- 2008-2009 Co-director of Resident Journal Club, Harvard Beth Israel Deaconess Medical Center Internal Medicine Residency
 - Initiated with co-director a series of 10 minute statistics teaching lectures at each monthly session
- 2012-2015 Internal Medicine resident teaching, Subspecialty conference, University of Pennsylvania
 - Lecturer – 1 hour contact time each
 - Pituitary Disorders (2012-2014)
 - Adrenal Disorders (2012-2015)
 - Inpatient Diabetes (2014)
 - Adrenal Incidentaloma (2014)
- 2013-2015 Endocrinology Fellow didactic teaching, University of Pennsylvania
 - Lecturer – 1 hour contact time
 - Adrenal Insufficiency (2013, 2014, 2015)
- 2016-present Endocrinology Fellow didactic teaching, University of Colorado
 - Lecturer (summer 2016, 2017, 2018, 2019, 2020, 2021, 2022, 2023, 2024, 2025, 2026) – 1 hour contact time
 - Adrenal Anatomy, Physiology and Imaging
- 2020; 2022 Internal Medicine Residents Research Pathway, University of Colorado
 - Interactive lecture and Q&A – 1 hour contact time
 - Matrix Building: What I wish I had known about an academic career (June 29 and Aug 26, 2020 and Nov 9, 2022 and Nov 30, 2022)

- 2020-present Endocrine Fellows Introduction to Research Career, University of Colorado
 - Interactive lectures and Q&A – 1 hour contact time each
 - Academic Research Career (2020)
 - How to write a scientific paper (Jan 2021)
 - Scholarly writing (Nov 2021; Dec 2022; Nov 2023; Oct 2024; Oct 2025)
- 2021 Internal Medicine Resident teaching, Subspecialty Case Conference Faculty Discussant, University of Colorado (Dec 2021)
- 2024 -present Hematology Oncology Fellows Educational Conferences
 - Lecturer – 1 hour contact time
 - Adrenal Cancers – joint with Laura Graham MD from Oncology (April 26, 2024; Jan 17, 2025; Jan 23, 2026)

Regional Teaching to Practitioners (MD, DO, NP, PA, RN):

- 2015-2017 SCAN ECHO Case-based Teaching, Denver VA Medical Center
 - Endocrinology Series, Lecturer – 1 hour contact time each
 - Advanced Insulin Management – Adding Mealtime Insulin (2015, 2016, 2017)
 - Advanced Insulin Management – Recognizing Patterns (2015, 2017)
 - Adrenal Incidentalomas (2016)
 - Rheumatology Series, Lecturer – 1 hour contact time
 - Vitamin D Deficiency (2016)
- 2016 Program in Endocrine/Diabetes Education in Rural Settings (PEERS), Denver VA Medical Center
 - Lecturer – 1 hour contact time
 - Adrenal Disorders (June 2016)
- 2022-present Huddle Teaching to RNs in UCH Endocrinology
 - Lecturer – 1 hour contact time
 - Adrenal Disorders (2022)
 - Pheochromocytoma/paraganglioma (2023, 2024)

Ward/Clinic Attending Teaching:

- 2011-2015 Attending Physician, Endocrinology Clinic at the Hospital of the University of Pennsylvania
- 2011-2015 Endocrinology and Diabetes Consult Service at the Hospital of the University of Pennsylvania
 - Supervision and bedside teaching of Endocrine Fellows, Medical Residents and Medical Students
- 2015-present Attending Physician, Endocrinology Clinic at the Rocky Mountain Regional VA Medical Center
 - Supervision of Endocrine Fellows, Medical Residents and Medical Students
- 2015-present Endocrinology and Diabetes Inpatient Consult Service at the Rocky Mountain Regional VA Medical Center
 - Supervision and bedside teaching of Endocrine Fellows, Medical Residents and Medical Students
- 2020-present Attending Physician, Endocrinology Clinic at the University of Colorado Anschutz Medical Campus
 - Supervision of Endocrine Fellows, Medical Residents and Medical Students

- 2020-2022 Endocrinology Inpatient Consult Service at the University of Colorado Hospital Anschutz Medical Campus
 - Supervision and bedside teaching of Endocrine Fellows, Medical Residents and Medical Students

Mentoring

- 2001-2002 Mentoring: Bonnie Eady, University of Florida undergraduate student; research project
- 2002-2003 Mentoring: Nicholas Sanek, University of Florida undergraduate student; research project
- 2006 Co-director of “Art of Medicine” (After school program for Alachua county high school students to encourage pursuing careers in science and medicine)
- 2011-2012 Mentoring: Jannelyn Ocampo-Tan, University of Pennsylvania undergraduate student; research project
- 2013 Mentoring: Michael Kaufman, Emory University undergraduate summer research student; research project
- 2013 Mentoring: Hannah Cai, University of Pennsylvania undergraduate student; research project
- 2013-2014 Mentoring: Sanika Khare, University of Pennsylvania Master’s in Biotechnology student; research project
- 2013-2015 Mentoring: Shivani Agarwal, University of Pennsylvania Endocrinology Fellow; member of career development mentoring team
- 2014 Mentoring: Niambi Brewer, University of Pennsylvania Graduate student rotation project
- 2017-2018 Mentoring: Carissa Vinovskis, University of Colorado Master’s in Human Anatomy student; advisor for Capstone research project
- 2017-2018 Mentoring: Matthew Wahl MD, University of Colorado Endocrinology Fellow; member of research mentoring committee
- 2018-2019 Mentoring: Nathaniel Alzofon, University of Colorado Master’s in Human Anatomy student; advisor for Capstone research project and independent study laboratory project
- 2019-2022 Mentoring: Kimberly Wellman, University of Colorado Molecular Biology PhD Program graduate student; member of comprehensive exam committee and thesis committee
- 2019-2022 Mentoring: Meryl Colton MD, University of Colorado Internal Medicine Resident; advisor for case report
- 2020 Mentoring: Troy Teeples MD, University of Colorado Internal Medicine Intern; advisor for case report
- 2020-2022 Mentoring: Caitlin Bell MD, University of Colorado Internal Medicine Resident; advisor for clinical research project
- 2020-2021 Mentoring: Aaron Wasson MD, University of Colorado Endocrinology Fellow; QI project mentor, Clinical Genetic Testing Referrals for Those with Pheo/Para
- 2021 Mentoring: Sydnei Lewis, Summer Research Training Program for undergraduate student, 8 week summer laboratory research project. *Winner of best poster
- 2021-2022 Mentoring: Molly Crenshaw, Children’s Hospital of Colorado, University of Colorado Pediatric Genetics Resident; advisor for genetics of PPGL review paper manuscript (DOI: 10.1530/EO-22-0044)
- 2022-2023 Mentoring: Sofie Rosenberg, University of Colorado Medical Student; advisor for clinical research project
- 2022-2023 Mentoring: Danielle Kirelik MD, University of Colorado Internal Medicine Resident; advisor for clinical research project

2022	Mentoring: Anubhav Thapaliya, Cancer Research Experience for Undergraduates (CREU), 9 week summer laboratory research project.
2022-2023	Mentoring: Ethan Stortz MD, University of Colorado Endocrinology Fellow; Clinical project mentor, Effect of partial opioid agonists on HPA and HPG axes.
2023	Mentoring: Lily Nguyen, University of Colorado MD-PhD student; clinical preceptor for a semester
2023	Mentoring: Jeremiah Diaz, Cancer Research Experience for Undergraduates (CREU), 9 week summer laboratory research project.
2023-2024	Mentoring: Maria Gabriela (Gabi) de Faria Figueiredo MD, University of Colorado Internal Medicine Resident; co-advisor for clinical research project
2023	Mentoring: Hei-Yong (Grant) Lo, University of Colorado MD-PhD student; clinical preceptor for a semester
2023-2025	Mentoring: Caitlin Bell MD, University of Colorado Endocrinology Fellow; member of Research Mentoring Committee
2023-2025	Mentoring: Leor Needleman MD, Stanford University Endocrine Fellow; member of Career Advisory Committee
2023-2026	Mentoring: Hector Gonzalez-Cantu, University of Texas Health Science San Antonio; external member of Graduate Student Dissertation Committee
2025-present	Mentoring: Christie Turin-More MD, University of Colorado, Junior Faculty Clinical Assistant Professor, clinical research project mentor to help with study design, methodology.
2025-present	Mentoring: Maanasa Reddy MD, University of Colorado, Endocrine Fellow; career advisory mentor
2025-present	Mentoring: Katherine Wolfe MD, University of Michigan Endocrine Fellow; member of K award committee/research mentoring committee
2026-present	Mentoring: Sophia Eison, undergraduate, summer research volunteer.

GRANTS:

Current:

1 R01 CA246586-01 (PI: Fishbein) NIH/NCI Title: Inherited genetic variation and penetrance of Hereditary Paraganglioma-Pheochromocytoma Syndrome Role: PI	8/3/2020-4/30/2026-NCE
I01BX006252-01A2 (PI: Fishbein) VA Merit Title: Genetic risk for aggressive thyroid cancer in an understudied male predominant veteran population. Role: PI	10/1/2024-09/30/2028

Past:

T32 CA01926-22 (PI: Byrne) NIH/NCI Training Grant for the University of Florida Cancer Center Role: Institutional Recipient	2001-2002
1 F30 NS43951 (PI: Fishbein) NIH/NINDS Predoctoral NRSA Title: Genetics and Epigenetics of Neurofibromatosis Type 1	2002-2006

T32 DK007314 (PI: Birnbaum) 7/1/2010-6/30/2012
 NIH/NIDDK Training Grant for the University of Pennsylvania Division of Endocrinology,
 Diabetes and Metabolism
 Role: Institutional Recipient

Pheo Para Alliance Foundation Grant (PI: Nathanson) 10/01/11-09/30/12
 Title: Characterization of somatic genetic and genomic aberrations in inherited
 pheochromocytoma
 Role: Co –investigator

NANETS Early Career Development Award (PI: Fishbein) 12/31/12-12/30/13
 Title: Somatic Mutations in Inherited Pheochromocytoma and Paraganglioma

CTSA/KL2; KL2TR000139 (PI: FitzGerald) 7/1/12-6/30/14
 NIH; National Center for Research Resources and the National Center for Advancing
 Translational Sciences Grant to the University of Pennsylvania Institute of Translational
 Medicine and Therapeutics
 Role: Institutional Recipient

TAPITMAT (MPIs: Chacko, Li, Fishbein) 2/1/2013-1/31/2015
 Translational Awards Program Pilot Grant, Institute for Translational Medicine and
 Therapeutics, University of Pennsylvania
 Title: Modulating Norepinephrine Transporter Expression in Neuroendocrine Cancer:
 Towards Enhancing MIBG Radiotherapy.
 Role: Co-PI

R21 CA185953 (PI: Nathanson) 04/01/14-03/31/16
 NIH/NCI
 Title: Investigating the association between the somatic and inherited genetics of
 pheochromocytoma/paraganglioma
 Role: Co-investigator

Cancer League of Colorado (PI: Fishbein) 7/1/2016-6/30/2017
 Title: Investigating the role of *MAML3* in neuroendocrine tumorigenesis
 Role: PI

Lung Cancer SPORE Career Enhancement Award (PI: Fishbein) 5/1/2018-4/30/2020
 NCI/NIH SPORE in Lung grant (P50 CA058187 PI: Doebele)
 Title: Investigating the Role of MAML3 in Small Cell Lung Cancer Metastases
 Role: PI

ACS Mentored Research Scholar Grant (PI: Fishbein) 7/1/2015-6/30/2020*
 American Cancer Society
 Title: Somatic Genetic Alterations in Pheochromocytoma and Paraganglioma
 Role: PI *one year no-cost extension through 6/30/2021

RNA Bioscience Initiative Pilot Grant (PI: Kiseljak-Vassiliades) 1/1/2021-12/31/2021*
 University of Colorado
 Title: *In situ* reconstruction of distinct cell populations within the human adrenal
 gland
 Role: Co-I *delay start due to COVID-19 pandemic

BIBLIOGRAPHY:

Peer Reviewed: Research Publications:

1. Pokrywka NJ, Frederick J, **Fishbein L**. New phenotypes associated with the swallow gene of *Drosophila*: Evidence for a general role in oocyte cytoskeletal organization. *Development, Genes and Evolution*. 2000; 210:426-435. PMID: 11180848
2. **Fishbein L***, O'Brien P*, Hutson A, Theriaque D, Stacpoole PW, Flotte T. Pharmacokinetics and pharmacodynamic effects of nicotine nasal spray devices on cardiovascular and pulmonary function. *Journal of Investigative Medicine*. 2000; 48(6):435-440. *authors contributed equally PMID: 11094866
3. Hutson AD, **Fishbein L**, O'Brien P, Stacpoole PW. Accounting for plasma levels below detection limits in a one-compartment zero-order absorption pharmacokinetics model. *Journal of Applied Statistics*. 2002; 29(8):1181-1190. DOI: 10.1080/0266476022000011256
4. **Fishbein L**, Eady B, Sanek N, Muir D, Wallace MR. Analysis of somatic NF1 promoter methylation in plexiform neurofibromas and Schwann cells. *Cancer Genetics and Cytogenetics*. 2005; 157:181-186. PMID: 15721644
5. Perrin GQ, **Fishbein L**, Thomson SA, Thomas SL, Stephens K, Garbern JY, DeVries GH, Yachnis AT, Wallace MR, Muir D. Plexiform-like neurofibromas develop in the mouse by intraneural xenograft of an NF1 tumor-derived Schwann cell line. *Journal of Neuroscience Research*. 2007; 85(6):1347-1357. PMID: 17335073
6. **Fishbein L**, Zhang X, Fisher LB, Li H, Campbell-Thompson M, Yachnis A, Rubenstein A, Muir D, Wallace MR. In vitro studies of steroid hormones in neurofibromatosis 1 tumors and Schwann cells. *Molecular Carcinogenesis*. 2007; 46(7):512-523. PMID: 17393410
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Peer-reviewed: reviews, guidelines, commentaries and special communications:

1. Thomson SAM, **Fishbein L**, Wallace MR. NF1 mutations and molecular testing. *Journal of Child Neurology*. 2002; 17(8):555-561. PMID: 12403553
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4. Santen RJ, Joham A, **Fishbein L**, Vella KR, Ebeling PR, Gibson-Helm M and Teede H. Career Advancement: Meeting the challenges confronting the next generation of endocrinologists and endocrine researchers. *Journal of Clinical Endocrinology and Metabolism*. 2016; 101(12):4512-4520. PMID: 27691051
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Invited Editorials, Reviews, Chapters, including participation in committee reports:

1. **Fishbein L** and Cohen DL. Systemic therapies for malignant pheochromocytoma and paraganglioma can exacerbate hypertension. *Journal of Clinical Hypertension.* 2013; 15(7):513-4. PMID: 23815541

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3. **Fishbein L**. Pheochromocytoma and paraganglioma. Genetics, diagnosis and treatment. *Hematology Oncology Clinics of North America*. 2016; 30(1):135-50. PMID: 26614373
4. Cohen DL and **Fishbein L**. Secondary hypertension: pheochromocytoma and paraganglioma chapter in *Hypertension: A companion to Braunwald's Heart Disease, 3rd edition*. Eds. George L. Bakris and Matthew Sorrentino. p. 136-143. Elsevier, Philadelphia, 2018.
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7. **Fishbein L** and Else T. Disorders of the Adrenal Medulla chapter in *Pathophysiology of Disease: An Introduction to Clinical Medicine, Eighth Edition*. Eds. Gary D. Hammer and Stephen J. McPhee. p. 355-368. McGraw-Hill Education, Lange. New York, 2019.
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10. **Fishbein L**. Pheochromocytoma/Paraganglioma: Is This a Genetic Disorder? *Current Cardiology Reports*. 2019; 21(9):104. PMID: 31367972
11. Waguespack SG and **Fishbein L**. Pheochromocytoma/Paraganglioma, Medullary Thyroid Carcinoma and Hereditary Endocrine Neoplasia Syndromes chapter in *Sperling's Pediatric Endocrinology 5th Edition*; Ed. Mark A. Sperling, 2020.
12. **Fishbein L**, Richards M, Cohen DL. Other Endocrine Causes of Hypertension chapter in *Comprehensive Clinical Nephrology, 7th edition*.
13. Cohen DL and **Fishbein L**. Secondary hypertension: pheochromocytoma and paraganglioma chapter in *Hypertension: A companion to Braunwald's Heart Disease, 4th edition*. Eds. George L. Bakris and Matthew Sorrentino. Elsevier, Philadelphia

14. Else T, Greenberg S, **Fishbein L**. Hereditary Paraganglioma-Pheochromocytoma Syndromes. 2008 May 21 [Updated 2023 Sept 21]. In: Adam MP, Ardinger HH, Pagon RA, et al., editors. GeneReviews® [Internet]. Seattle (WA): University of Washington, Seattle; 1993-2023. Available from <http://www.ncbi.nlm.nih.gov/books/NBK1548/> PMID: 20301715.
15. Stortz E, Orrego J, **Fishbein L**. Pheochromocytoma and Paraganglioma. Chapter 34 in *Endocrine Secrets*. 8th edition. Ed. Michael McDermott.
16. Stortz E, Orrego J, **Fishbein L**. Multiple Endocrine Neoplasia Syndromes. Chapter 60 in *Endocrine Secrets*. 8th edition. Ed. Michael McDermott.
17. Stortz E, **Fishbein L**, Kiseljak-Vassiliades K. Adrenal Malignancies. Chapter 36 in *Endocrine Secrets*. 8th edition. Ed. Michael McDermott.
18. **Fishbein L**, Richards M, Cohen DL. Other Endocrine Causes of Hypertension chapter in *Comprehensive Clinical Nephrology*. 8th edition. *In press*
19. Waguespack SG and **Fishbein L**. Pheochromocytoma and Paraganglioma, chapter in *Sperling's Pediatric Endocrinology* 6th Edition; Ed. Mark A. Sperling, *In press*.
20. **Fishbein L** and Else T. Disorders of the Adrenal Medulla chapter in *Pathophysiology of Disease: An Introduction to Clinical Medicine, Ninth Edition*. Eds. Gary D. Hammer and Stephen J. McPhee. *In review*

Abstracts: (underlined oral presentations given by Fishbein)

1. Frederick J, **Fishbein L** and Pokrywka NJ. A re-examination of the swallow phenotype during oogenesis. (Poster presentation) National Drosophila Conference, Washington, DC 1998.
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