

Date of preparation: February 11, 2024

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ACADEMIC APPOINTMENTS, HOSPITAL APPOINTMENTS, AND OTHER WORK EXPERIENCE

Academic Appointments

| | | |
|-------------------|--|--------------|
| 12/1/2023-present | Columbia University College of Physicians & Surgeons Professor of Medicine and Epidemiology at CUMC | New York, NY |
| 1/1/2020-present | Columbia University College of Physicians & Surgeons Associate Professor of Medicine and Epidemiology at CUMC | New York, NY |
| 07/2013 – 12/2019 | Columbia University College of Physicians & Surgeons Assistant Professor of Medicine and Epidemiology | New York, NY |
| 09/2011 – 06/2013 | Columbia University College of Physicians & Surgeons Assistant Professor of Clinical Medicine and Epidemiology | New York, NY |
| 07/2011 – 08/2011 | Columbia University College of Physicians & Surgeons Assistant Professor of Clinical Medicine | New York, NY |
| 07/2010 – 06/2011 | Columbia University College of Physicians & Surgeons Instructor in Clinical Medicine | New York, NY |

Hospital Appointments

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|-------------------|--|--------------|
| 07/2010 - present | New York-Presbyterian/Columbia University Medical Center Assistant Attending | New York, NY |
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EDUCATION

| | | |
|-------------------|---|---------------|
| 07/2008 – 06/2010 | Columbia University, Mailman School of Public Health MS in Biostatistics, June 2010 | New York, NY |
| 08/1999 – 05/2003 | Columbia University, College of Physicians & Surgeons MD, May 1999 | New York, NY |
| 09/1995 – 06/1999 | Harvard College AB in Music, <i>Summa Cum Laude</i> , June 1999 | Cambridge, MA |

TRAINING

| | | |
|-------------------|--|--------------|
| 07/2007 – 6/2010 | Division of Digestive and Liver Diseases, Department of Medicine, NewYork Presbyterian Hospital/Columbia Gastroenterology Fellow | New York, NY |
| 06/2006 – 05/2007 | Department of Medicine, NewYork Presbyterian Hospital/Columbia Chief Medical Resident | New York, NY |
| 06/2003 – 06/2006 | Department of Medicine, NewYork Presbyterian Hospital/Columbia Medicine Resident | New York, NY |

LICENSURE AND BOARD CERTIFICATION

New York State license #233671
 ABIM certified for internal medicine 2006 through 2016
 ABIM certified for gastroenterology 2010-present

HONORS AND AWARDS

Awards

2021: Inductee, Virginia Apgar Academy of Educators

2019: Awardee, Daniel V. Kimberg Junior Faculty Teaching Award

2019: Awardee, the Louis and Gloria Flanzer Scholar

2017: Winner, Best Research Paper for 2017, British Medical Journal

2015-2018: Ewig Clinical Scholar Award, in recognition of clinical teaching.

2014-2017: Lewis V. Gerstner, Jr. Scholar, Columbia University. Awarded to four young physician-scientists at the College of Physicians and Surgeons at Columbia University to conduct translational research.

2013-2016: Irving Scholar Award. Approximately four awardees annually, open to applicants from all clinical departments at the College of Physicians and Surgeons at Columbia University Medical Center.

2013: American Gastroenterology Association/Gastroenterology Research Group Young Investigator Award in Clinical Science.

2010: Recipient, Clinical Reviewer Award, Gastrointestinal Endoscopy.

2008: Physician of the Year Award, fellow category, presented by the Department of Nursing at NewYork Presbyterian Hospital.

2004: Inductee, Arnold P. Gold Foundation Circle of Excellence, elected by third-year medical students.

2004: Winner for intern class, Department of Medicine House Staff Award, in recognition of excellence in clinical teaching at NewYork Presbyterian Hospital. (One annual awardee)

2003: Inductee, Alpha Omega Alpha.

1999: Joseph Garrison Parker Prize, awarded to a student who intends the profession of medicine and who has an unusual breadth of interests outside the specifically premedical curriculum. (One annual awardee)

1999: Inductee, Phi Beta Kappa.

Invited Lectureships

2024: Vagelos College of Physicians & Surgeons Steven Z. Miller Student Clinician's Ceremony: Pre-Clinical Faculty Speaker

2023: Medicine Grand Rounds, Stamford Hospital: "The Illnesses and Death of Ludwig van Beethoven"

2023: Gastroenterology Grand Rounds, University of Michigan: "Celiac Disease: Beyond the Gluten-Free Diet"

2023: Virginia Gastroenterology Society: "American College of Gastroenterology Guidelines Update: Diagnosis and Management of Celiac Disease"

2023: Digestive Disease Week, Chicago, IL: "Challenging Cases in Celiac Disease"

2023: The Dr. John D. Snyder Memorial Lecture, Children's National Hospital, Washington, DC: "Celiac Disease: Beyond the Gluten-Free Diet"

2023: Gastroenterology Grand Rounds, Schneider Children's Hospital, Tel Aviv: "Celiac Disease: Beyond the Gluten-Free Diet"

2023: Open Medical Institute, Salzburg, Austria. "Malabsorption Syndromes and Celiac Disease"; "Colorectal Cancer Screening"; "The Illnesses and Death of Ludwig van Beethoven"

2023: Gastroenterology Grand Rounds, Weill Cornell Medical Center: "Celiac Disease: Beyond the Gluten-Free Diet"

2022: Canadian Celiac Association Annual Conference: "Diagnosing Celiac Disease: Current Standard and Debates"

2022: New Beethoven Research Conference, New Orleans, LA: "Alcohol and the Death of Beethoven: Comparison of General Biographies to the Medical Literature"

2022: International Celiac Disease Symposium, Sorrento, Italy: "Covid and Celiac Disease"

2022: American College of Gastroenterology/Virginia Gastroenterological Society Regional Postgraduate Course, Williamsburg, VA: "Small Bowel Enteropathies"

2022: Society for the Study of Celiac Disease webinar: "Best Practices in Celiac Disease Clinical Trial Endoscopy"

2022: Digestive Disease Week, San Diego, CA: "Dilemmas in Celiac Disease"

2022: Emirates International Gastroenterology and Hepatology Conference: "Updates in Celiac Disease: Diagnosis and Treatment"

2021: Gastroenterology Grand Rounds, Massachusetts General Hospital: "Update on Celiac Disease"

2021: American College of Gastroenterology National Meeting: "What's on the Horizon for Celiac Disease and Non-Celiac Gluten Sensitivity"

2021: Food and Drug Administration Conference: Gastroenterology Regulatory Endpoints and the Advancement of Therapeutics VI (GREAT VI) Workshop on Celiac Disease: "Approach to monitoring disease through histologic assessment in clinical practice"

2021: National Institute of Allergy and Infectious Diseases (NIAID) Workshop: Accelerating Progress in Celiac Disease Research: "Celiac Disease: The Spectrum of Disease and its Outcomes"

2021: VII National Conference, Spanish Society for Celiac Disease: "Pitfalls in the Diagnosis of Celiac Disease"

2021: XX Congress, Uruguay Society of Gastroenterology: "Non-Celiac Gluten Sensitivity: Similarities and Differences with Celiac Disease"

2021: Shanghai International GI/Liver Conference: "Celiac Disease and the Liver"

2021: Diploma in Celiac Disease (Argentina): "Diagnostic Pitfalls"; "Images, Endoscopy, and Capsule Endoscopy for Celiac Disease"

2021: Postgraduate Course, Digestive Disease Week: "Pitfalls in the Diagnosis and Management of Celiac Disease"

2020: Texas Society for Gastrointestinal Endoscopy annual course: "Update on Celiac Disease"

2020: Grand Rounds, Department of Medicine, Stamford Hospital: "Update on Celiac Disease and Gluten"

2020: Gastroenterology Grand Rounds, Mount Sinai Beth Israel Hospital: "Update on Celiac Disease"

2019: Daniel V. Kimberg Memorial Lecture, Department of Medicine, Columbia University Medical Center: "A 22 Year-Old Women with Newly Diagnosed Celiac Disease."

2019: Grand Rounds, Department of Medicine, Westchester Medical Center: "Update on Celiac Disease and Gluten."

2019: International Celiac Disease Symposium, Paris: "The Gluten-Free Diet: Safe or Dangerous?"; "Follow-Up of the Patient: Finding a Balance"; "Food Safety with the Gluten-Free Diet and the Benefits of Nutritional Support"

2019: Digestive Disease Week, San Diego, CA. "The Case Against Screening for Celiac Disease"

2019: Grand Rounds, Division of Gastroenterology, Westchester Medical Center: "Non-dietary Therapies for Celiac Disease."

2019: Grand Rounds, Division of Gastroenterology, University of Pennsylvania: "Update on Celiac Disease and Gluten."

2018: Grand Rounds, Division of Gastroenterology, NYU Langone Medical Center, NY: "Update on Celiac Disease and Gluten."

2018: Open Medical Institute, Salzburg, Austria. "Celiac Disease"; "Diarrhea"; "Colorectal Cancer Screening"; "The Illnesses and Death of Ludwig van Beethoven"

2018: Annual Meeting of the American Society of Nutrition, Boston, MA. "Irritable Bowel Syndrome and Gluten."

2018: Digestive Disease Week, Washington, DC. "Is a Gluten-Free Diet Always Good For You?"

2018: Grand Rounds, Department of Nutrition, Memorial Sloan Kettering Cancer Center, NY: "Update on Celiac Disease and Gluten."

2018: Canadian Digestive Disease Week, Toronto, ON: "Pitfalls in the Diagnosis and Clinical Management of Celiac Disease."

2018: Gastroenterology Grand Rounds, Montefiore Hospital, NY: "Update on Celiac Disease and Gluten"

2017: Medical Grand Rounds, Lankenau Hospital: "Update on Celiac Disease and Gluten"

2017: Gastroenterology Grand Rounds, Mount Sinai Beth Israel Hospital: "Update on Celiac Disease and Gluten-Related Disorders"

2017: Medical Grand Rounds, Bryn Mawr Hospital: "Update on Celiac Disease and Gluten"

2017: Digestive Disease Week, Chicago, IL. "Follow-up of Celiac Disease"

2017: Autumn Symposium, Sociedad Argentina de Gastroenterologia, Buenos Aires: "Update on Celiac Disease"

2016: Grand Rounds, Division of Gastroenterology, Westchester Medical Center: "Update on Celiac Disease and Gluten Sensitivity"

2016: American Society of Nutrition, Advances and Controversies in Clinical Nutrition, Orlando, FL: "Gluten Sensitivity: Knowns and Unknowns"

2016: Medical Grand Rounds, Paoli Hospital, Paoli, PA: "Update on Celiac Disease and Gluten Sensitivity"

2016: Gastroenterology Grand Rounds, Weill Cornell Medical Center: "What's Going On with Gluten?"

2016: Gastroenterology Grand Rounds, SUNY Downstate Medical Center: "Update on Celiac Disease and Gluten Sensitivity"

2016: Pediatric Gastroenterology Grand Rounds, Columbia University: "Update on Celiac Disease and Gluten Sensitivity"

2016: American Gastroenterological Association Regional Practice Skills Workshop, New York. "Academic Practice"

2016: Gastroenterology Grand Rounds, Lenox Hill Hospital, New York: "What's Going On with Gluten?"

2015: American Society of Nutrition, Advances and Controversies in Clinical Nutrition, Long Beach, CA. "Gluten Sensitivity: New Epidemic or Current Craze?"

2015: Lecturer and Dissertation Opponent: University of Umeå, Sweden. "The Multifactorial Etiology of Celiac Disease"

2015: Division of General Medicine Grand Rounds, Columbia University. "Update on Colorectal Cancer Screening and Colonoscopy Quality."

2015: Session Chair and Speaker, International Celiac Disease Symposium, Prague, Czech Republic. "Mechanisms and possible modulation of refractory celiac disease"

2015: Digestive Disease Week, Washington, DC. "Suspected Celiac Disease: How to Secure a Diagnosis?"

2015: Department of Medicine Grand Rounds, Columbia University; John Loeb Lecture. "Celiac Disease: Causes and Consequences"

2015: Peter D. Stevens Course on Innovations in Digestive Care, New York. "Diagnosis and Treatment of Celiac Disease"

2015: Food and Drug Administration Conference: Gastroenterology Regulatory Endpoints and the Advancement of Therapeutics, Washington, DC. "Role of Histology to Measure Clinical Benefit and Appropriate Timing of Assessment"

2014: New York Society for Gastrointestinal Endoscopy Annual Course, New York. "Update on Diagnosis and Managing Celiac Disease."

2014: Digestive Disease Week, Chicago, IL. "Screening and Diagnosing Celiac Disease: What Are the Benefits?"

2014: Gastroenterology Grand Rounds, Lenox Hill Hospital, New York: "Update on Celiac Disease and Gluten Sensitivity"

2014: Pediatric Gastroenterology Grand Rounds, Weill Cornell Medical Center, New York: "Update on Celiac Disease and Gluten Sensitivity"

2013: Gastroenterology Grand Rounds, Weill Cornell Medical Center, New York: "Studying Celiac Disease with Large Data Sets"

2013: Gastroenterology Grand Rounds, NYU Langone Medical Center: "Studying Celiac Disease with Large Data Sets"

2013: International Celiac Disease Symposium, Chicago, IL. "Correct Diagnostic Approach"

2013: International Celiac Disease Symposium, Chicago, IL. "What Happens When Your Diet is Less Than Scrupulous"

2013: Research Forum Co-chair, Digestive Disease Week, Orlando, FL. "Advances in Celiac Disease Diagnosis"

2013: Medical Epidemiology and Biostatistics, Karolinska Institute, Stockholm Sweden: "Decreased Risk of Celiac Disease in Patients with Helicobacter pylori Colonization"

2012: Research Forum Co-chair, Digestive Disease Week, San Diego, CA. "Celiac Disease: Neither Rare Nor Trivial"

2012: Gastroenterology Grand Rounds, Mount Sinai Hospital, New York: "Studying Celiac Disease with Large Data Sets"

2012, 2015: Keynote Address, Columbia University Department of Medicine Intern Retreat

2012: Career Forum Panelist: Careers in Epidemiology. Mailman School of Public Health, Columbia University.

2011: Clinical Epidemiology Unit, Karolinska Institute, Stockholm Sweden. "Adherence to Biopsy Guidelines Increases Celiac Disease Diagnosis"

ACADEMIC SERVICE

2023-present: Associate Clinical Chief, Division of Digestive and Liver Diseases, Department of Medicine, Columbia University Irving Medical Center

- In this leadership position within the gastroenterology division, I work on long-term strategy and programmatic issues with the aim of growing both basic services and the expansion of the division's

many subspecialty programs. I participate in the coordination of clinical operations and gastrointestinal care across the NewYork Presbyterian Hospital network. I contribute to faculty recruitment and retention efforts, and support the division's other missions of trainee education and clinical/translational research.

2021-present: Chair, Institutional Review Board 5, Columbia University Irving Medical Center

- The IRB involves assessment of the ethics of human subject research conducted at the medical center, ensuring that risks are minimized and reasonable in relation to anticipated benefits. My role as chair includes triaging protocols for expedited evaluation, reviewing protocols, constructing meeting agendas, running the twice-monthly convened IRB meetings, and participating in twice-monthly Chairs meetings with the Human Research Protection Office.

2017-present: Director of Clinical Research, Celiac Disease Center at Columbia University

- I oversee clinical and epidemiologic research activities at the celiac disease center, an internationally recognized celiac disease research institution. Activities include mentoring trainees, managing 2 research coordinators, organizing a monthly conference, and developing collaborations with other academic institutions and industry.

2015-present: Gastroenterology Fellowship Clinical Competence Committee

2015-present: Gastroenterology Fellowship Evaluation Committee

- These two committees meet quarterly for the purpose of monitoring the performance of each gastroenterology fellow and to develop structural changes to the fellowship program in response to fellow feedback.

2021-present: Epidemiology PhD Admissions committee

- I am a member of this committee, reviewing applications, interviewing applicants, and attending/presenting at ranking meetings.

2014-2018: Society of Practitioners Executive Council

- The Society of Practitioners is an association of practicing faculty, both full-time and voluntary, at Columbia University who are dedicated to the betterment of both patient care and professional activities at our medical center. This group is independent of both the University and the Hospital. The Executive Council meets monthly with the hospital leadership to discuss issues related to patient care of mutual concern to physicians and administration.

2014-2015: Epidemiology General Exam Committee

- We developed and graded the general (written) exam for PhD candidates in Epidemiology at the Mailman School of Public Health.

2013-present: Digestive Disease Week Abstract Review Committee

- I serve on a four-person committee of the American Gastroenterological Association that evaluates all abstracts related to celiac disease submitted to this annual national meeting.

2013-2021: Tripartite Request Assessment Committee (TRAC)

- This committee, consisting of representatives from Columbia University Medical Center, Weill Cornell Medical Center, and NewYork Presbyterian Hospital, evaluates all requests for clinical data for the purposes of quality improvement or research projects. The committee meets weekly by teleconference.

2011-present: ColumbiaDoctors Quality Committee

- This committee meets monthly to develop policies and procedures for the faculty practice of Columbia University Medical Center, with an emphasis on implementation of the electronic medical record and monitoring adherence to federally mandated reporting measures.

2011-present: Academic Advisor, Mailman School of Public Health

- I meet once-twice yearly (and more often as needed) with masters degree candidates, providing advice on course selection, courseload, and career plans for the following students:
 - Wai Sha (Sally) Cheung, '14
 - Ravi Pasam, '14
 - Katherine Infante, '15
 - Mirko Savone, '16
 - Richa Gupta, '16
 - Matthew Cato, '17
 - Francesco DeMayo, '17
 - Carolina Downie, '17
 - Lynn Phan Vo, '19
 - Elliot Rozen, '19
 - Athena Wong, '21
 - Ziyu Chen, '21
 - Yosef Cohen, '24
 - Xiaohui Kang, '25

2013-present: P&S Scholarly Project Mentor

- I mentored these fourth-year medical students who completed a research project under my supervision:
 - Eric Braunstein, '14
 - Janie Yang, '14
 - Doll Lauren Golden, '16
 - Neal Emery, '18
 - Sarah Godfrey, '18
 - Jason Saltiel, '19
 - John Henry Ignatiev, '19
 - Ben Wagner, '20
 - Lauren Suarez, '21
 - Annel Fernandez, '22

2011-present: Thesis Reader in Epidemiology

- I read drafts and graded the final Master's thesis for the following students at the Mailman School of Public Health:
 - Tim Wen: 2011-2012
 - Stephen Mooney: 2011-2012
 - Miriam Gofine: 2014-2015
 - Kirsten Quiles: 2014-2015
 - Kevin Yao: 2015-2016
 - Trang Tran: 2015-2016
 - Grant Hiura: 2017-2018
 - Mia Weiss: 2017-2018

- Misbah Rashad 2020-2021
- Kanza Tarar 2021-2022
- Jiayi Yang 2022-2023

2010-present Medicine House Staff Recruiting Committee

2010-present: Gastroenterology Fellowship Recruiting Committee

- My participation in the above two committees consists of interviewing candidates for these programs and attendance of ranking sessions.

PROFESSIONAL ORGANIZATIONS AND SOCIETIES

MEMBERSHIPS AND POSITIONS

2023-present: member, Publications Committee, American Gastroenterological Association

2021-present: Chair, Gastrointestinal Drugs Advisory Committee, U.S. Food & Drug Administration

2021-2023: President, Society for the Study of Celiac Disease

2019-2022: member, Clinical Guidelines Committee, American Gastroenterological Association

2017-2021: member, Gastrointestinal Drugs Advisory Committee, U.S. Food & Drug Administration

2016-2019: member, Research Policy Committee, American Gastroenterological Association

2015-2018: member, Research Advocacy Subcommittee, Government Affairs Committee, American Gastroenterological Association

2013-2015: Treasurer, North American Society for the Study of Celiac Disease

2011-present: member, North American Society for the Study of Celiac Disease

2011-2015: member, Intestinal Disorders Committee, American Gastroenterological Association

2010-present: member, Herbert Irving Comprehensive Cancer Institute

2008-present: member, American Society for Gastrointestinal Endoscopy

2009-present: member, American College of Gastroenterology

2006-present: member, American Gastroenterological Association

CONSULTATIVE

2015-2018: New York City Department of Health and Mental Hygiene, Colon Cancer Continuous Quality Improvement Toolkit

2015-2018: American Association of Medical Colleges: Public Health in Medical Education Task Force

2014-present: Medical Advisory Board, Executive Health Examinations

2016-present: Research Committee: Celiac Disease Foundation

2014-2018, 2021-present: Scientific Advisory Board, Beyond Celiac

JOURNAL REVIEWER

New England Journal of Medicine

JAMA

Gastroenterology

Gut

Clinical Gastroenterology and Hepatology

Digestive Diseases and Sciences

Gastrointestinal Endoscopy

Alimentary Pharmacology and Therapeutics

Journal of Clinical Gastroenterology

Clinical Biochemistry

American Journal of Gastroenterology

EDITORIAL BOARDS

2020-2023: Gastroenterology

2019-present: Clinical Gastroenterology and Hepatology

2018-present: American Journal of Gastroenterology

2016-present: Clinical and Translational Gastroenterology

2013-present: Digestive Diseases and Sciences

GRANT REVIEW

October 2023: Ad hoc reviewer, Digestive System Host Defense, Microbial Interactions and Immune and Inflammatory Diseases (DHMI) study section

March 2017: Special emphasis panel, PAR-16-418 “Exploratory Clinical Trials and Studies of Natural Products in NCCIH High Priority Research Topics (R61/R33)” and PAR-16-419 “Exploratory Clinical Trials and Studies of Natural Products in NCCIH High Priority Research Topics (R33), National Center for Complementary and Integrative Health.

April 2017: Ad hoc reviewer, Medical Research Council, United Kingdom.

FELLOWSHIP AND GRANT SUPPORT

- **CURRENT SUPPORT**

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) 9/15/2023-6/30/2028
U01 DK136523
\$6,888,211
(MPI: Lebwohl, Wolf)

Evaluation of Novel Technologies to Improve Clinical Management of Celiac Disease: The GLUTECH Trial

This multicenter randomized trial tests the addition of gluten-detection technology to promote mucosal healing and improved symptoms and quality of life in patients with newly-diagnosed celiac disease.

- **PAST SUPPORT**

National Institute of Diabetes and Digestive and Kidney Diseases (NIDDK) 9/7/2021-8/31/2023
U34 DK129924
\$779,594

Evaluation of Novel Technologies to Improve Clinical Management of Celiac Disease

(MPI: Lebwohl, Wolf)

In this planning grant, we are establishing the infrastructure for a multicenter clinical trial testing the effect of gluten detection technology on intestinal healing and symptoms in people recently diagnosed with celiac disease.

Collaboratory Fellows Fund, Columbia University 7/30/2021-1/30/2023
\$100,000
(MPI: Lebwohl, Terry)

Data Science and the Health of New Yorkers

This educational grant from the Data Science Institute at Columbia University supports the creation of a course required for all first-semester students at Vagelos College of Physicians and Surgeons, with objectives including data exploration, analysis, and application of concepts from public health, epidemiology, and data science to examine the state of health among New Yorkers.

The Louis and Gloria Flanzer Philanthropic Trust
\$200,000

7/1/2019-6/30/2023

Research in Celiac Disease and Colorectal Cancer Prevention

This gift supports Dr. Lebwohl's ongoing clinical and epidemiological research in luminal gastroenterology as a Louis and Gloria Flanzer Scholar.

Celiac Disease Foundation
\$145,650

4/1/2019-3/31/2022

Microbiome and Population-Based Outcomes Research in Celiac Disease

In this set of studies we investigate the colonic microbiome as a potential mediator for the variable symptoms patients celiac disease and non-celiac gluten sensitivity experience when exposed to gluten. This grant also funds a population-based cohort study in Sweden measuring all-cause mortality in celiac disease.

ImmusanT (site PI)

11/1/2018-5/31/2019

A Study of the Safety, Efficacy and Tolerability of Nexvax-2 in Patients With Celiac Disease

Phase II double-blind, placebo-controlled randomized trial of a subcutaneously injected gluten peptide for patients with celiac disease.

Irving Institute/Clinical Trials Office (CTO) Pilot Award
\$49,742

11/1/2017-10/31/2018

A Pilot Study to Test the Feasibility and Acceptability of Using Gluten Sensor Devices & Social Video-Based Discussion Tools to Promote a Gluten-Free Diet in Patients with Celiac Disease.

This clinical trial tests the impact of a portable gluten sensor on dietary adherence and quality of life among teenagers and adults with celiac disease. The grant also covers the development of materials to conduct web-based dialogues based on social situations commonly encountered among people on a gluten-free diet.

AGA Research Scholar Award
\$270,000

7/1/2014-6/30/2017

Risk Factors for Celiac Disease and the Health Effects of Gluten

This set of studies involves analyses of the Harvard cohorts so as to determine environmental risk factors for celiac disease, and the development of a gluten index with the aim of determining whether gluten exposure is associated with cardiovascular outcomes.

Louis V. Gerstner, Jr. Scholar
\$225,000

7/1/2014-6/30/2017

Gluten and the Microbiome in Individuals with Celiac Disease and Non-Celiac Gluten Sensitivity

This study investigates the microbiome as it relates to the symptomatic effects of gluten. We will conduct a 14-day gluten challenge in patients with celiac disease and in a separate group with non-celiac gluten sensitivity and measure gut microbial composition during this exposure. We will determine whether the severity of gastrointestinal and extraintestinal symptoms experienced during gluten exposure is correlated with reduced species diversity.

Irving Scholar Award
UL1 TR000040
\$180,000

7/1/2013-6/30/2016

The “Celiac Stomach”: Gastric Environment and the Risk of Celiac Disease

This set of studies aims to determine whether the risk of celiac disease is affected by exposures to the gastric mucosa, including *Helicobacter pylori* colonization and acid suppression medication.

Alvine Pharma (site PI)
\$228,894

8/1/2013-12/1/2014

Evaluation of the Efficacy and Safety of ALV003 in Symptomatic in Celiac Disease Patients

Phase IIB randomized trial of an endopeptidate/endoprotease agent for patients with celiac disease and persistent symptoms with histologic abnormalities.

Alvine Pharma (site PI)
\$51,876

1/1/2013-12/31/2013

Evaluation of Patient Reported Outcome Instruments in Celiac Disease Patients

Validation study measuring the sensitivity of patient reported outcome instruments to detect change over time in celiac disease symptoms with and without a gluten challenge.

National Center for Advancing Translational Sciences/National Institutes of Health
KL2 RR024157
\$200,000

7/1/2011-6/30/2013

Quality Issues in the Diagnosis of Celiac Disease

Mentors: Alfred I. Neugut and Peter Green

This study aims to identify the underlying causes of the low rates of diagnosis of celiac disease in the United States. The goal of this mentored career development award is to facilitate junior faculty members to achieve research independence.

National Cancer Institute training grant (PI: Alfred I. Neugut)
T32-CA095929

7/1/2008-6/30/2010

Mentor: Alfred I. Neugut

Colorectal Cancer Prevention

As a fellow on this training grant I studied risk factors for suboptimal bowel preparation on colonoscopy using observational data sets.

Celiac Sprue Association (Benjamin Lebwohl)
\$5,000

7/1/2011-6/30/2012

Serial Biopsies and Mortality in Celiac Disease: a Population-Based Study

The grant supplements the travel expenses associated with my ongoing collaboration with the Clinical Epidemiology Unit at the Karolinska Institute in Stockholm, Sweden

American Scandinavian Foundation (Benjamin Lebwohl):
\$5,000

5/1/2011-8/31/2011

Serial Biopsies and Mortality in Celiac Disease: a Population-Based Study

The objective of this study is to determine whether the results of the “control biopsy,” performed 1-3 years following the initial diagnosis of celiac disease, is associated with the mortality rate, which is

overall increased in celiac disease. This study utilizes a population-based database of all patients in Sweden with celiac disease spanning the years 1969-2008.

EDUCATIONAL CONTRIBUTIONS

Direct Teaching/Precepting/Supervising

2022: Course co-director, with Mary Beth Terry: Data Science and the Health of New Yorkers (MEDI 5306)

- This course, premiering in August 2022, is designed to introduce data science to all incoming medical and dental students, incorporating elements of epidemiology, biostatistics, and public and population health, and focusing on health indicators in New York City. Co-taught by an epidemiologist and gastroenterologist, the course will emphasize the role of data in students' career, including its role in clinical practice, research, and public health leadership. The course includes an introduction to *R*, a free statistical and data visualization software package. Classes integrate lecture and hands-on learning into each session, including interactive discussions and coding exercises. Assessments consist of individual assignments and a group project consisting of preparing a New York City Data Brief, in which students explore and present a health measure using a choice of publicly available data.

2021-present: Director, Evidence Based Medicine unit, Columbia University Vagelos College of Physicians & Surgeons

- I direct of this 6-week unit, presented in the second semester of the pre-clinical year. This course covers topics including epidemiology, biostatistics, principles of screening and diagnostic testing, critique of the medical literature, ethics in research, and conflict of interest. This course includes 11 lectures (8 of which are given by me) and 4 small-group sessions taught by a group of 13 preceptors whom I recruit.

2019-2021: Seminar: The Beethoven String Quartets

- I taught a weekly seminar in the Department of Medical Humanities for medical students on a month-long elective in Narrative Medicine. The focus was on listening to and analyzing Ludwig van Beethoven's string quartets, a group of compositions widely regarded as a monument of artistic achievement in classical music. Seminar sessions emphasized attentive listening with a focus on musical elements and form, incorporating ear training and group exercises. Topics of discussion included the historical context of the compositions, the relationship between artistic effort and personal experience, and the group dynamics at play in music-making in general and the string quartet in particular.

2010-present: General Medicine Inpatient Service

- For a 4-week period every two years I serve as attending physician on this service (consisting of 2 interns, 2 residents, and 2 attendings including myself) which cares for inpatients with a variety of general medical illnesses. Rounds, which combine teaching and direct patient care, are performed daily for 2-3 hours.

2010-present: Gastroenterology consultation service

- For 1-2 weeks every year I serve as the attending physician on this service (consisting of 3-4 GI fellows and 1-2 medical students or residents) which cares for inpatients in need of gastroenterology consultation. Until 2015 this service included the supervision of endoscopic procedures on consulted patients.

2010-present: Gastroenterology clinic

- For 3-5 4-hour sessions every year I serve as the attending in this outpatient clinic in which GI fellows care for patients with a variety of gastrointestinal illnesses.

2011-present: Lecturer and Small Group Leader, The Body in Health and Disease (M6107)

- I give a 1 hour lecture annually to second-year medical students on the topic of diarrhea covering epidemiology, pathophysiology, differential diagnosis, and treatment. In some years I also precept the students in 2-4 sessions during a 2 week period annually, reviewing case-based questions.

2012-present: Section teacher, Clinical Reasoning and Decision Analysis course

- Twice a year I lead medical students in 2 90-minute sessions consisting of case-based discussions in the areas of cognitive bias and decision analysis.

Development of instructional material and curriculum used locally

2015-2020: Public Health Thread, Columbia University Vagelos College of Physicians & Surgeons

2017-2020: Chair, Lead Committee, Columbia University Vagelos College of Physicians & Surgeons

- I was appointed the director of this curricular initiative with the objective of incorporating public health into the four years of the medical school curriculum. This includes preclinical lectures on the topics of public health in clinical practice, the development of case-based clinical discussions on topics relating to public health that are relevant to medical students and residents, and the development of a public-health-oriented patient write-up assignment during the medicine rotation in the Major Clinical Year. I delivered a one-hour lecture titled, "What is Public Health?" in March 2016 and "Non-Evidence-Based Medicine: The Physician's Role and Responsibility" in September 2016 to the medical students as part of the Mechanisms and Practice component of their Major Clinical Year. The Lead Committee (formed in 2017) oversees the integration of public health topics into the curriculum and considers the impact of shifts in health policy and the care delivery environment on the undergraduate medical education curriculum.

2012-present: Co-Director, Postgraduate Course: Update in Gastroenterology, Hepatology, & Nutrition

- I develop the program for this annual 2-day course that is jointly taught by faculty of Columbia University Medical Center and Weill Cornell Medical Center. Targeted toward a nationwide audience of gastroenterologists, internists, medical oncologists, nutritionists and surgeons, the course focuses on important recent developments and current controversies in gastrointestinal and liver disease. Attendance ranges from 100-200 participants annually.

Educational Administration and Leadership

2015-2021: Gastroenterology Fellows Quality Improvement Projects

- In partnership with the fellowship program leadership, I developed a team-based quality improvement program in which teams of 3-4 fellows, under the guidance of a faculty member, collaborate on an annual project related to improving clinical practice, with an emphasis on identification of systems inefficiencies and measurement of outcomes. Teams present their findings at an annual faculty meeting dedicated Quality Improvement. Teams have the option to obtain Institutional Board Review approval so as to publish their findings.

Instructional/Educational Materials used in Print or other Media

2015: "Don't Just Go Gluten-Free; Why You Need to be Tested First"

- I provided the content and led this Webinar that was hosted by the National Foundation for Celiac Awareness.

Community Education

2016: Presentation, Gluten Intolerance Group of Richmond, Virginia

2013: Presentation, Gluten Intolerance Group of Asheville, North Carolina

2014: Presentation, Colin Leslie Walk for Celiac Disease Research

2012, 2015: Presentation, gluten-free family weekend retreat, New Jersey Y Summer Camps.

REPORT OF CLINICAL AND PUBLIC HEALTH ACTIVITIES AND INNOVATIONS

Practice or Public Health Activities

2010-present: Gastroenterology clinical practice

- My clinical practice focuses on celiac disease and other gluten-related disorders, as well as general gastroenterology. I perform office consultation and procedures (upper gastrointestinal endoscopy and colonoscopy) with patient contact totaling 10 hours weekly.

Clinical or Public Health Innovations

2011-2020: Screening Colonoscopy Report Cards

- In collaboration with information technology personnel at NewYork Presbyterian Hospital, I developed a system for the measurement of colonoscopy quality indicators including the adenoma detection rate, which is widely regarded as the most important process measure in screening colonoscopy. We distributed report cards to gastroenterology faculty, comparing the recipient's adenoma detection rate to his/her peers, using anonymized suite-wide reporting. To my knowledge we were the first academic medical center in New York City to provide benchmarked feedback to providers regarding their adenoma detection rates. Our method of reporting has been incorporated into the Colonoscopy Quality Improvement Toolkit developed by the New York City Department of Health and Mental Hygiene.

Clinical or Public Health Administration and Leadership

2022-present: Associate Director of Quality Improvement, Division of Digestive and Liver Disease

2016-2022: Director of Quality Improvement, Division of Digestive and Liver Disease

2015-2016: Co-Director of Quality Improvement, Division of Digestive and Liver Disease

- I review cases of potential medical errors related to adverse outcomes in the division of gastroenterology, submitting written reports to the Quality and Patient Safety Committee of NewYork Presbyterian Hospital.

Additional Clinical or Public Health Service Activities

2016-present: Co-Chair, Quality Committee, Citywide Colon Cancer Control Coalition (C5) (member since 2010)

- Under the auspices of the New York City Department of Health and Mental Hygiene, this coalition consists of physicians, allied health professionals, and public health officials, with the aim of increasing the rate of screening for colorectal cancer and improving the quality of screening. As a Co-chair of the Quality Committee (which meets in person semiannually and hosts 2-3 additional conference calls per year) I have advised the coalition on the choice of benchmarks and methods of reporting.

PUBLICATIONS

Original, Peer-Reviewed Publications

1. DiGiacomo DV, Roelstraete B, **Lebwohl B**, Green PHR, Hammarström L, Farmer JR, Khalili H, Ludvigsson JF. Predominantly antibody deficiency and the association with celiac disease in Sweden: a nationwide case-control study. *Ann Allergy Asthma Immunol* 2024 Jan 23:S1081-1206(24)00027-9.
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4. Ching CK, Lyudmer M, Lewis S, Krishnareddy S, Green PHR, **Lebwohl B**. Predictors of subsequent celiac disease seropositivity in patients diagnosed with duodenal villus atrophy on upper endoscopy. *Dig Dis Sci* 2023; doi: 10.1007/s10620-023-08217-4.
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9. Bergin E, Zylberberg HM, **Lebwohl B**, Freedberg DE. Trends in use of proton pump inhibitors among adults in the United States from 1999 to 2018. *Pharmacoepidemiol Drug Saf.* 2023 Jul 31. doi: 10.1002/pds.5676.
10. Kornberg A, Botella T, Moon CS, Rao S, Gelbs J, Cheng L, Miller J, Bacarella AM, García-Vilas JA, Vargas J, Yu X, Krupska I, Bush E, Garcia-Carrasquillo R, **Lebwohl B**, Krishnareddy S, Lewis S, Green PHR, Bhagat G, Yan KS, Han A. Gluten induces rapid reprogramming of natural memory $\alpha\beta$ and $\gamma\delta$ intraepithelial T cells to induce cytotoxicity in celiac disease. *Sci Immunol* 2023;8(85):eadf4312.
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INVITED AND/OR PEER-SELECTED PRESENTATIONS AT REGIONAL, NATIONAL OR INTERNATIONAL LEVELS:

See ***Invited Lectureships*** section in **Honors and Awards**