

Curriculum Vitae
Nielsen Quimaira Fernandez-Becker, MD, PhD

APPOINTMENT: Clinical Associate Professor of Medicine
Division of Gastroenterology and Hepatology
Director, Celiac Program
Stanford University School of Medicine

EDUCATION:

1989-1994 Bachelor of Science, Biology
City University of New York

1994-1997 Master of Science, Molecular Genetics
Albert Einstein College of Medicine, Yeshiva University

1994-2002 MD, PhD, Albert Einstein College of Medicine, Yeshiva University

POST DOCTORAL TRAINING:

2002-2005 Internal Medicine Residency, Massachusetts General Hospital
Harvard Medical School, Boston, Massachusetts

2005-2009 Gastroenterology and Hepatology Fellowship
Beth Israel Deaconess Medical Center
Harvard Medical School, Boston, Massachusetts

2008-2009 Inflammatory Bowel Disease Clinical and Research Fellowship
Beth Israel Deaconess Medical Center/Harvard Medical School

10/2012 Motility Training (Esophageal and Anorectal Manometry)
Cedars Sinai Medical Center, Los Angeles, California

BOARD CERTIFICATIONS:

2005 American Board of Internal Medicine

2009 Initial Certification American Board of Internal Medicine-
Gastroenterology

2019-Present American Board of Internal Medicine Gastroenterology, Certified
Participating in Maintenance of Certification

FACULTY APPOINTMENTS:

9/1/09- 2/15/13	Instructor of Medicine, Gastroenterology and Hepatology Stanford University School of Medicine
2/16/13-7/1/2019	Clinical Assistant Professor of Medicine, Gastroenterology and Hepatology, Stanford University School of Medicine
7/1/2019- Present	Clinical Associate Professor of Medicine, Gastroenterology and Hepatology, Stanford University School of Medicine

LEADERSHIP ROLES:

2013-2016	Elected Councilor, Neurogastroenterology and Motility Section American Gastroenterological Association Institute Council
2015- Present	Director, Celiac Disease Program Division of Gastroenterology and Hepatology Stanford University School of Medicine
2015-2019	Director, Capsule Endoscopy Teaching Program Division of Gastroenterology and Hepatology Stanford University School of Medicine
2021- Present	Vice Chief Wellness Division of Gastroenterology and Hepatology Stanford University School of Medicine
2023-Present	Director, Clinical Research Unit, Esophagus and Motility Division of Gastroenterology and Hepatology Stanford University School of Medicine

AWARDS AND HONORS:

1994	William Stratford Prize for Academic Excellence City University of New York, City College
1994	Edmund Baerman Award for Excellence in Biology City University of New York, City College
1994	Jonas Salk Award, Honorable Mention City University of New York, City College
1992-1994	NIH Minority Access to Research Careers (MARC) / Minority Biomedical Research Support (MBRS) Undergraduate Program City University of New York, City College

1995-2000	NIH National Institutes of General Medicine Sciences Minority Access to Research Careers Pre-doctoral Fellowship Albert Einstein College of Medicine
2000-2002	Samuel and May Rudin Scholarship Albert Einstein College of Medicine
2002	Dean's List Albert Einstein College of Medicine Albert Einstein College of Medicine
2007	Invited Participant, American Gastroenterological Association Inflammatory Bowel Retreat, Rancho Mirage, California
2012	Invited Participant, American Gastroenterological Association and American College of Gastroenterology Academic Skills Workshop Chicago, Illinois
2014	Hispanic Center of Excellence Fellowship Grant Stanford University
2020	Invited Participant, Stanford Well-Being Directors Course
2023	Elected, American Gastroenterological Association Fellow

INVITED SPEAKER/CHAIRPERSON AT INTERNATIONAL SCIENTIFIC MEETINGS:

11/08/2019	Invited Speaker: 13 th OESO World Conference for Esophageal Diseases. China National Convention Center. Session 27: The Functional Luminal Probe "Does FLIP add value in dysphagia & achalasia?" Beijing, China
11/08/2019	Invited Speaker: 13 th OESO World Conference for Esophageal Diseases. China National Convention Center, Session 40: Achalasia: Physiology and diagnosis "Can eosinophilic esophagitis cause achalasia?" Beijing, China
11/09/2019	Invited Chairperson & Speaker: 13 th OESO World Conference for Esophageal Diseases, China National Convention Center.

Session 73: Eosinophilic Esophagitis(EoE): key unanswered questions “Should we move past peak eosinophil count and use EoE histologic scoring system?”
Beijing, China

6/11/2022 Invited Speaker: International Digestive Endoscopy Network 2022
Grand Walkerhill, Seoul Korea (Hybrid Conference)
Session UGI 4-5: “Endoscopic Management of Complicated EoE”
Seoul, Korea

10/28/2022 Invited Speaker: OESO 2022 World Conference
Geneva University Hospital (Hybrid Conference)
Esophageal Plenary Session: “Are there patient with eosinophilic esophagitis who can be observed without treatment?”
Geneva, Switzerland

4/24/2024 Invited Speaker:
16th World Conference “Esophagus 2024”
Institut de Recherche Contre les Cancers de l'Appareil Digestif,
France
Barrett’s Esophagus – Controversies and Future Directions:
“Should irregular z-lines be routinely biopsied?”
Strasbourg, France

4/25/2024 Invited Speaker: OESO 16th World Conference “Esophagus 2024”
Institut de Recherche Contre les Cancers de l'Appareil Digestif,
France
EoE State of the Art 2024 Session I: Eosinophilic esophagitis –
current understanding: “Approaches to dietary elimination for
treatment of EoE”
Strasbourg, France

INVITED SPEAKER / MODERATOR AT NATIONAL SCIENTIFIC MEETINGS:

5/19/2015 Invited Moderator: American Gastroenterological Association
Neurogastroenterology “Centrifugal/Centripetal Research Forum”
Digestive Disease Week 2015
Washington DC

4/24/2018 Invited Speaker: Albert Einstein College of Medicine Grand
Rounds: “Celiac Disease”
Jacobi Hospital
Bronx, New York

8/14/2021 Invited Speaker: American Gastroenterological Association

2021 Course on Principles of GI for the NP and PA.
“Eosinophilic Esophagitis”
American Gastroenterological Association (Virtual Meeting)

- 8/13/22 Invited Speaker: American Gastroenterological Association
2022 Principles of GI for the NP and PA.
“C. difficile and FMT”
Denver Colorado
- 8/13/22 Invited Speaker: American Gastroenterological Association
2022 Principles of GI for the NP and PA.
“Celiac Disease: Diagnosis and Nutrition”
Denver Colorado.
- 7/21/2023 Invited Speaker: Institute for Orphan and Rare Diseases Inaugural
Symposium. (Hybrid Conference)
(National participation by both speakers and audience)
“Autoimmune Gastritis”
Campbell, California
- 1/26/2024 Invited Speaker: American Neurogastroenterology and Motility
Society Endorsed Virtual Symposia.
Esophageal Virtual Collaborative
Barrett’s Esophagus “To Treat or Not to Treat? Does Tissue
Cypher Help?”
Redwood City, California
- 1/25/2025 Invited Speaker: American College of Gastroenterology (ACG)
ACG Esophageal School; “Should I Get Out of Bed? Approach to
Esophageal Emergencies”
Las Vegas, Nevada

INVITED SPEAKER/MODERATOR AT REGIONAL SCIENTIFIC MEETINGS:

- 10/2013 Invited Speaker: Foothill College Middlefield Campus
“Malabsorption Syndromes”
Palo Alto, California
- 2/2014 Invited Speaker: Apple Headquarters
“Celiac Disease and Gluten Sensitivity”
Cupertino, California
- 9/2016 Invited Speaker, GI symposium Saint Agnes Medical Center:
“Celiac Disease and Wheat Disorders.”
Fresno, California

- 11/2017 Invited Speaker: Gluten Free and Allergy Friendly Expo:
“Demystifying Celiac from Symptoms to Diagnosis”
San Mateo, California
- 5/2018 Invited Speaker: One Medical Group Grand Rounds
“Celiac Disease: Understanding the disease and testing
recommendations/insights into interpretation.”
Palo Alto, California
- 5/2021 Invited Speaker: One Medical Group Grand Rounds: “Updates in
Celiac Disease”
Palo Alto California
- 6/26/2021 Invited Speaker: Northern California Society of Clinical
Gastroenterology (NCGS) Annual GI Symposium
“Updates in Eosinophilic Esophagitis”
Monterey, California
- 5/20/2023 Invited Speaker: Lucille Packard Center for IBD and Celiac Disease
Regional Patient Event. “Role of Intestinal Biopsy in the diagnosis
of celiac disease”
Palo Alto, California
- 4/14/2023 Invited Moderator, 2023 Updates in Gastroenterology & Hepatology
Hybrid Course, “Clinical Conundrums”
Redwood City, California
- 4/15/2023 Invited Speaker: 2023 Updates in Gastroenterology & Hepatology
Course. “Do we Really Need a Biopsy to Diagnose Adult celiac
disease?”
Redwood City, California
- 4/19/2024 Invited Speaker: Stanford Second Annual Updates in GI Course
“Eosinophilic Esophagitis; a New GI Epidemic.”
Sonoma, California
- 4/20/2024 Invited Speaker: Stanford Second Annual Updates in GI Course
Celiac Disease: More than Antibody Testing and Diet”.
Sonoma, California

INVITED SPEAKER / MODERATOR / CHAIRPERSON, REGIONAL SCIENTIFIC MEETINGS
(Organized by Stanford University):

- 1/2017 Invited Speaker, GI Motility Symposium: “Abdominal Pain, Bloating
and Constipation”
- 6/2017 Invited Speaker, Annual Esophageal Symposium: “Eosinophilic
Esophagitis an Emerging Epidemic”

11/2017	Invited Chairperson / Moderator / Speaker, Celiac Symposium: "What to do when gluten free diet does not work"
4/2018	Invited Speaker, Second Annual Esophageal Symposium: "The Functional Luminal Imaging Probe (FLIP)"
4/12/2019	Invited Speaker, Third Annual Esophageal Symposium: "Eosinophilic Esophagitis: A New GI Epidemic"
9/8/2019	Invited Speaker, "Celiac Disease and Malabsorptive Disorders of the Small Intestines". GI Board Review Course
9/13/2020	Invited Speaker: GI Board Review Course "Celiac Disease and Malabsorptive Disorders of the Small Intestines"
9/12/2021	Invited Speaker: GI Board Review Course "Celiac Disease for the Boards".
4/26/2022	Invited Speaker: Stanford Esophageal Program Webinar: Key Advances in Esophageal Diagnostic Testing, Cytosponge & New technologies for Eosinophilic Esophagitis
9/18/22	Invited Speaker: GI Board Review Course Celiac Disease: Diagnosis and Management"

INVITED SPEAKER, STANFORD SCIENTIFIC MEETINGS:

4/2018	Invited Speaker, Sean N. Parker State of Center: "Eosinophilic GI Disease". Lucille Packard Hospital
5/1/19	Invited Organizer/Moderator Celiac Disease: Patient oriented research and clinical case presentation. Digestive Disease Conference
7/25/19	Invited Discussant, Internal Medicine Mortality and Morbidity Conference. Discussion of case of Nausea.
6/30/2021	Invited Speaker: "Non-Celiac Enteropathies" Digestive Disease Conference
8/9/2021	Invited Speaker: Celiac Disease Clinical Relevance and Immunobiology Mellins Laboratory Meeting
2/23/2022	Invited Speaker: Digestive Health Wellness, GI Grand Rounds

3/28/2024 Invited Speaker: Celiac Disease Research Update: Latest Research Into Celiac Disease; potential new treatments and ongoing clinical trials

MEMBERSHIP ON UNIVERSITY COMMITTEES:

1996- 1999	Medical Scientist Training Program Steering Committee, Albert Einstein College of Medicine
1999-2000	Albert Einstein College of Medicine Senate
2003-2005	Internship Selection Committee, Massachusetts General Hospital
2017-2018	Staff Morale Task Force, Division of Gastroenterology and Hepatology, Stanford School of Medicine
2021- Present	Department of Medicine Divisional Wellbeing Directors Council
2025- Present	Department of Medicine Grand Rounds Committee

STUDY SECTION:

11/6/2023 Invited Ad Hoc Reviewer, Congressionally Directed Medical Research Program
PEER Reviewed Medical Research Program Fiscal Year 2023
Programmatic Review II: Autoimmune Disorders and Immunology, Herdon, Virginia

GRANT REVIEWER:

2018 Netherlands Organisation for Scientific Research

REVIEWER FOR SCIENTIFIC JOURNAL:

PLOS-One, Clinical Gastroenterology and Hepatology

MEMBERSHIP IN NATIONAL SCIENTIFIC SOCIETIES:

2002-2008	Massachusetts Medical Society
2005-2009	American Society for Gastrointestinal Endoscopy
2006-2009	American Association for the Study of Liver Diseases
2019- Present	American College of Gastroenterology
2007- Present	American Gastroenterological Association
2012-Present	American Neurogastroenterology and Motility Society
2017-Present	North American Society for Study of Celiac Disease

RESEARCH:

COMPLETED SUPPORT:

National Institutes of Health, ImmunogenX Murray (PI) 02/01/2022- 4/2024
Clinical Study of Latiglutenase as a Treatment for Symptom Reduction for Celiac Disease.
Major Goals: This study is designed to assess the ability of Latiglutenase to ameliorate symptoms of patients with celiac disease.
Role: Site PI

Industry Clinical Trial 08/01/2022-07/31/2026
Takeda Development Center Americas, Inc

A Phase 2, Randomized, Double-blind, Placebo-Controlled, Dose-Ranging Study to Evaluate the Efficacy and Safety of TAK-062 for the Treatment of Active Celiac Disease in Subjects Attempting a Gluten-Free Diet

· Goal: Assess Efficacy of TAK in treatment of celiac disease

Role: Site PI

Pediatric IBD and Celiac Disease Seed Grant Kuo (PI) 7/01/21-07/1/2023
MCHRI Stanford Medicine
Organoid Modeling of Immune-epithelial Interactions in Pediatric Celiac Disease
Major Goal: Develop organoid model for celiac disease.
Role: Co-Investigator

Pediatric IBD and Celiac Disease Seed Grant Mellins (PI) 7/01/21-07/1/2023
MCHRI Stanford Medicine
Optimizing TCR-like reagents for study of gliadin presentation
Major Goal: Identify Antigen Presenting Cell in Celiac Disease
Role: Co-Investigator

4R44DK121606-02 Maahs (PI) 08/10/2019 - 07/31/2023
National Institutes of Health / ImmunogenX
A Clinical Study of Latiglutenase as a Treatment for Type 1 Diabetics with Celiac Disease
Major Goals: The major goal of this project is to assess the efficacy of Latiglutenase in treatment of Type 1 DM in patients with celiac disease.
Role: Collaborator

PTG-100 Fernandez-Becker (PI) 12/03/2020 - 6/01/2022
Protagonist Therapeutics
Major Goals: To assess the ability of PTG-100 to protect patients with celiac disease from gluten induced mucosal injury.

5 R01 DK063158-15 Khosla (PI) 7/1/2018 – 6/30/2022
NIH/NIDDK
Role of Transglutaminase 2 in Celiac Sprue

Major Goals: This project investigates the molecular mechanisms underlying Celiac Sprue
Role: Collaborator

AW737301 10/1/18- 9/30/2021

Regeneron Pharmaceuticals

A Phase 3, Randomized, 3-Part Study to Investigate the Efficacy and Safety of Dupilumab in Adult and Adolescent Patients with Eosinophilic Esophagitis (EoE)

Major Goals: Assess Efficacy of Dupilumab in EoE patients.

Role: Co-Investigator

U19 AI104209-05 Galli (PI) 2/01/2013 – 1/31/2019

NIH/NIAID

Integrated Genomic and Functional Studies of Tolerance Therapy for Peanut Allergy; Functional and Molecular Changes in T cells and B Cells in Peanut Allergy and Oral Immunotherapy

The major goals are to define the immune mechanisms associated with immune tolerance after oral immunotherapy.

Role: Collaborator

Adare Pharmaceuticals 9/1/2017- 9/30/2019

FLUTicasone in Eosinophilic Esophagitis (FLUTE): A Randomized, Double-blind, Placebo-controlled, Dose-ranging, and Maintenance Study of APT-1011 in Subjects with Eosinophilic Esophagitis

Major Goals: Assess efficacy of APT-1011 in Eosinophilic esophagitis

Role: Co-Investigator

Scleroderma Research Foundation Chung (PI) 5/1/2012 – 4/30/2018

Northern California Scleroderma Research Consortium

The goal of this study is to develop a scientific research consortium to accelerate collaborative research on scleroderma between UCSF and Stanford

Role: Collaborator

Scleroderma Foundation Chung (PI) 1/15/2015 – 1/14/2017

Molecular Characterization of Multi-Organ Involvement in Patients with Systemic Sclerosis

The goal of this study is to identify common and organ-specific dysregulated molecular pathways among multiple organ systems in systemic sclerosis patients.

Role: Collaborator

GI Division Pilot Award Fernandez-Becker (PI) 1/1/2014–12/31/2016

Co-Investigator (Co-PI Brad Palanski, PhD Candidate, Chaitan Khosla Lab).

Project Title: Detection of Gluten Derived Peptides in Human Urine

IBD Seed Grant Fernandez-Becker (Co-PI) 5/1/2015- 4/30/2016

Co-Investigator (Co-PI, Elizabeth Mellins, MD).

Project Title: Intestinal Organoids as model system to study intrinsic difference between intestinal epithelial cells from patients with celiac disease and controls.

6. Moss AC, Kim KJ, **Fernandez-Becker N**, Cury D, Cheifetz AS. Impact of concomitant Immunomodulator use on long-term outcomes in patients receiving scheduled maintenance infliximab. *Digestive Disease Science*. 2010; 55(5): 1413-20
7. Han A, Newell E, Glanville J, **Fernandez-Becker N**, Khosla C, Chien Y, Davis M. Dietary gluten triggers concomitant activation of CD4⁺ and CD8⁺ αβ T cells and γδ T cells in celiac disease. *PNAS, USA*. 2013; 10(6):13073-8.
8. Valenzuela A, Li S, Becker LS, **Fernandez-Becker NQ**, Khanna D, Nguyen L, Chung L. Intestinal pseudo-obstruction in patients with systemic sclerosis: an analysis of the Nationwide Inpatient Sample. *Rheumatology* 2016; 55(4):654-8.
9. Zikos, TA, Pan J, Limketkai, B, Banerjee D, **Fernandez-Becker N**. Efficacy of Video Capsule endoscopy in the Management of Suspected Small bowel bleeding in patients with continuous flow Left Ventricular Assist Devices. *Gastroenterology Res*. 2017 10(5):280-287
10. Shields, HM, **Fernandez-Becker, NQ**, Flier SN, Vaughn BP, Tukey MH, Pelletier SR, Horst DA. Volunteer patients and small groups contribute to abdominal examinations's success. *Adv Med Educ Pract*. 2017;8:721-729
11. Zikos, TA, Clarke JO, Triadafilopoulos G, Regalia KA, **Fernandez-Becker NQ**, Nandwani MC, Nguyen LA. A Positive Correlation between Gastric and Esophageal Dysmotility suggests common Causality. *Dig Dis Sci*. 2018
12. Triadafilopoulos G, Zikos T, Regalia K, Sonu I, **Fernandez-Becker NQ**, Nguyen L, Nandwani MCR, Clarke JO. Use of Esophageal pH Monitoring to Minimize Proton-Pump inhibitor Utilization in Patients with Gastroesophageal Reflux Symptoms. *Dig Dis Sci*. 2018 63(10):2673-2680
13. Wright, B, **Fernandez-Becker NQ**, Kambham, N, Purington, N, Tupa, D, Zhang, W, Rank, M, Hirohito K, Shim, K, Bunning, B, Doyle, A, Jacobsen E, Boyd, S, Tsai, M, Holden, M, Manohar, M, Galli, S, Nadeau, K, Chinthrajah RS. Baseline Gastrointestinal Eosinophilia is Common in Oral Immunotherapy Subjects with IgE Mediated Peanut Allergy. *Front. Immunol*. 2018 9;2624
14. Wosen JE, Iltad-Minnihan A, Co JY, Jiang W, Mukhopadhyay D, **Fernandez-Becker NQ**, Kuo CJ, Amieva MR, Mellins ED. Human Intestinal Enteroids Model MHC- II in the Gut Epithelium. *Front. Immunol*. 2019 10: 1970
15. Gottfried-Blackmore, Adler EP, **Fernandez-Becker N**, Clarke J, Habtezion A, Nguyen L. Open Label pilot study: Non-invasive vagal nerve stimulation improves symptoms and gastric emptying in patients with idiopathic gastroparesis. *Neurogastroenterol Motil*. 2020 Apr;32(4):e13769. doi: 10.1111/nmo.13769. Epub 2019 Dec 5. PMID: 31802596

16. Hoh, RA, Joshi SA, Lee JY, Martin BA, Varma S, Kwok S, Nielsen SCA, Nejad P, Haranguchi EM, Dixit PS, Shthanandan SV, Roskin KM, Zhang W, Tupa D, Bunning BJ, Manohar M, **Fernandez-Becker, NQ**, Khambam, N West RB, Hamilton RG, Tsai M, Galli SJ, Chinthrajah RS, Nadeau KC, Boyd SD. Origins and clonal convergence of gut-resident IgE+ B cells in human peanut allergy. *Sci Immunol.* 2020 5(45)
17. Zikos TA, Nguyen L, Kamal A, **Fernandez-Becker N**, Regalia K, Nandwani M, Sonu I, Garcia M, Okafor P, Neshatian L, Grewal D, Garcia P, Triadafilopoulos G, Clarke JO. Marijuana, Odansetron, and Promethazine are Perceived as Most Effective Treatments for Gastrointestinal Nausea. *Dig Dis Sci.* 2020 Mar 17. doi: 10.1007/s10620-020-06195-5. Online ahead of print. PMID: 32185665
18. Wright BL, **Fernandez-Becker NQ**, Kambham N, Purington N, Cao S, Tupa D, Zhang, W, Sindher SB, Rank MA, Kita H, Katzka DA, Shim KP, Bunning BJ, Doyle AD, Jacobsen EA, Tsai M, Boyd SD, Manohar M, Chinthrajah RS. Gastrointestinal Eosinophil Responses in a Longitudinal, Randomized Trial of Peanut Oral Immuno Therapy. *Clin Gastroenterol Hepatol* 2020 May 17: S1542-3565(20)30676-5
19. Triadafilopoulos G, Korzilius JW, Zikos T, Sonu I, **Fernandez-Becker NQ**, Nguyen L, Clarke JO. Ninety-Six Hour Wireless pHJ Study in Patients with GERD Shows that Restrictive Diet Reduces Esophageal Acid Exposure. *Dig Dis Sci.* 2020 Aug;65(8):2331-2344. doi: 10.1007/s10620-019-05940-9. Epub 2019 Nov 16.
20. Serling-Boyd, N, Chung M, Li SHufeng, Becker L, **Fernandez-Becker N**, Clarke J, Fiorentino Chung L. Gastric Antral Vascular Ectasia in Systemic Sclerosis: Association with Anti-RNA Polymerase III and Negative Anti-Nuclear Antibodies. *Semin Arthritis Rheum* 2020 Jul 6;50(5):938-942
21. Palanski B, Weng N, Zhang L, Hilmer A, Fall L, Swaminathan K, Jabri B, Sousa C, **Fernandez-Becker NQ**, Khosla C, Elias J. Identification of Chemically Defined Gluten Peptides in the Urine of Patients with Celiac Disease. *Nat Commun.* 2022 Feb 16;13(1):888. doi: 10.1038/s41467-022-28353-1.
22. Li J, Zaslavsky M, Su Y, Guo J, Sikora MJ, van Unen V, Christophersen A, Chiou S, Chen L, Ji X, McSween AM, Palanski BA, Mallajosyula VVA, Bracey NA Dhondalay GKR, Bhamidipati K, Pai J, Kipp LB, Dunn JE, Hauser SL, Oksenberg JR, Satpathy AT, Robinson WH, Steinmetz LM, Khosla C, Utz PJ, Sollid LM, Chien YH, Heath JR, **Fernandez-Becker NQ**, Nadeau KC, Saligrama N, Davis MM. Human KIR⁺ CD8⁺ T cells target pathogenic T cells in Celiac disease and are active in other autoimmune disorders and COVID-19. *Science.* 2022 Mar 8:eabi9591. doi: 10.1126/science.abi9591.
23. Zhang W, Dhondalay GK, Liu TA, Kaushik A, Hoh R, Kwok S, Kambham N, **Fernandez-Becker NQ**, Andorf S, Deesai M, Galli SJ, Boyd SD, Nadeau KC, Manohar M, DeKruyff RH, Chinthrajah RS. Gastrointestinal $\gamma\delta$ T cells reveal

differentially expressed transcripts and enriched pathways during peanut oral immunotherapy. *Allergy*. 2022 Feb 10. doi: 10.1111/all.15250.

24. Leiman DA, Kamal AN, Otaki F, Bredenoord AJ, Dellon ES, Falk GW, **Fernandez-Becker NQ**, Gonsalves N, Hirano I, Katzka DA, Peterson K, Yadlapati R, Kathpalia P. Quality Indicators for the Diagnosis and Management of Eosinophilic Esophagitis. *Am J Gastroenterol*. 2023 Jun 1;118(6):1091-1095. doi: 10.14309/ajg.0000000000002138. Epub 2022 Dec 23.
25. Jiang Y, Sonu I, Garcia P, **Fernandez-Becker NQ**, Kamal AN, Zikos TA, Singh S, Neshatian L, Triadafilopoulos G, Goodman SN, Clarke JO. J Clin Gastroenterol. The Impact of Intermittent Fasting on Patients With Suspected Gastroesophageal Reflux Disease. [J. Clin Gastroenterol](#). 2022 Nov 1. doi: 10.1097/MCG.0000000000001788. Online ahead of print. PMID: 36730832
26. Fass OZ, Regalia KA, Sweatt AJ, Nandwani MC, Zikos TA, **Fernandez-Becker NQ**, Nguyen LA, Sonu IS, Triadafilopoulos G, Clarke JO. The integrated relaxation pressure may not be an appropriate gold standard for deglutitive relaxation due to reliance on a single intragastric reference sensor. *Neurogastroenterol Motil*. 2023 Jun 25:e14635. doi: 10.1111/nmo.14635.
27. Zhou MJ, Zikos T, Goel K, Goel K, Gu A, Re C, Rodriguez DJF, Clarke JO, Garcia P, **Fernandez-Becker N**, Sonu I, Kamal A, Sinha SS. Development and Validation of a Machine Learning System to Identify Reflux Events in Esophageal 24-Hour pH/Impedance Studies. *Clin Transl Gastroenterol* 2023 Oct 1;14(10)*Clin Transl Gastroenterol* 2023 Oct 1;14(10)
28. Santos AJM, Van Unen V, Lin Z, Ha Nhi, Batish A, Chan JE, Cedano J, Chirieleison SM, Mu Q, Guh-Siesel A, Tomaske M, Zhang ET, Choic SS, Asbjørn C, Baghdasaryan A, Yost, KE, Karlsson K, Ha A, Li J, Dai H, Sellers ZM, Chang HY, Dunn JCY, Zhang BM, Mellins ED, Sollid LM, **Fernandez-Becker NQ**, Davis MM, Kuo CJ. A human autoimmune organoid model reveals IL-7 function in celiac disease. 2024 *Nature*.
29. Jove A, Lin C, Hwang JH, Balasubramanian V, **Fernandez-Becker NQ**, Huang RJ. Serum Gastrin Levels Are Associated With Prevalent Neuroendocrine Tumors in Autoimmune Metaplastic Atrophic Gastritis. *Am J Gastroenterol*. 2025 May 1;120(5):1140-1143

OTHER PEER-REVIEWED PUBLICATIONS:

30. Hang CT, Perumpail RB, Huang RJ, Fernandez-Pol S, **Fernandez-Becker NQ**. Colonic plasmacytomas: a rare complication of plasma cell leukemia. *Endoscopy* 2015; 47(S 01): E77-E78
31. Clarke JO, **Fernandez-Becker NQ**, Regalia KA, Triadafilopoulos G. Baclofen and Gastroesophageal reflux disease: Seeing the forest through the trees. *Clin Transl Gastroenterol*. 2018 9(3):137

32. Li, A, Cholankeril G, Berry GJ, MD, **Fernandez-Becker NQ**. An Unexpected Colonic Mass: An Amobema. *AM J Gastroenterol* 2018 Oct 17
33. Gubatan J, Triadafilopoulos G, **Fernandez-Becker NQ**. Double Threat: Interplay of Celiac Disease with Inflammatory Bowel Disease. *Dig Dis Sci*. 2019 Dec 11
34. Farber ON, Weingarden A, Lee C, Braxton DR, Bingham D, Scott G, **Fernandez-Becker N**, Goff D, Shelton A, Kin C. Not in the Same Vein: Inflammatory Bowel Disease, Malignancy and Enterocolic Lymphocytic Phlebitis. *Dig Dis Sci*. 2020 Jun 27. doi: 10.1007/s10620-020-06425-w. Online ahead of print. PMID: 32594463
35. Zhou W, Triadafilopoulos G, **Fernandez-Becker N**. Hiding in Plain Sight: Localized Ulcerative Jejunitis in a Patient with Celiac Disease. *Dig Dis Sci*. 2022 Sep 20. doi: 10.1007/s10620-022-07693-4.

INVITED REVIEW ARTICLES AND BOOK CHAPTERS:

1. **Fernandez-Becker NQ**, Moss AC. Improving delivery of aminosalicylates in ulcerative colitis: effect on patient outcomes. *Drugs*. 2008; 68(8):1089-103.
2. **Fernandez-Becker NQ**, Jacqueline Wolf. Pregnancy and Luminal GI diseases. *Practical Gastroenterology and Hepatology*, Lead Editor Nicholas Talley, MD, PhD. 2010.
3. **Fernandez-Becker, NQ**, Raja S, Scarpignato C, Lynch KL, Ahuja NK, Horsley-Silva JL. Eoe: Updates on Key Unanswered Questions. *Ann N Y Acad Sci*. 2020 Aug 6
4. Periyakoil VJ, **Fernandez-Becker NQ**, Streett S. Palliative Care Medicine in Patients with Advance Gastrointestinal and Hepatic Disease. *Sleisenger and Fordtran's Gastrointestinal and Liver Disease 11th Edition*. 2020. Mark Feldman & Lawrence S. Friedman & Lawrence J. Brandt. Elsevier Publisher
5. Clarke JO, Ahuja NK, **Fernandez-Becker NQ**, Gregersen H, Kamal AN, Khan A, Lynch KL, Vela MF. The Functional Lumen Imaging Probe in Gastrointestinal Disorders: the Past, the Present & the Future. *Ann NY Acad Sci*. 2020 Aug 19 *Ann NY Acad Sci*. 2020 Dec;1482(1):16-25. doi: 10.1111/nyas.14463. Epub 2020 Aug 19.
6. Rieder E, **Fernandez-Becker NQ**, Sarosiek J, Guillaume A, Azagury, DE, Clarke JO: Achalasia: physiology and diagnosis. *Ann NY Acad Sci*. 2020. *Ann NY Acad Sci*. 2020 Dec;1482(1):85-94. doi: 10.1111/nyas.14510. Epub 2020 Nov 2.

7. **Fernandez-Becker NQ.** Eosinophilic esophagitis: Incidence, Diagnosis, Management and Future Directions. *Gastroenterology Clinics of North America*, 2021-12-01, Volume 50, Issue 4, Pages 825-841

ABSTRACT PRESENTATIONS AT NATIONAL / INTERNATIONAL SCIENTIFIC

MEETINGS

Oral Presentations:

1. Palanski B, Hilmer A, Weng N, Zhang L, Fall L, Elias J, **Fernandez-Becker NQ**, Khosla C. Identification of Immunotoxic Peptides From Dietary Wheat in Human Urine. *Digestive Disease Week 2019*. San Diego, California.
2. Zhou MJ, Zikos T, Goel K, Goel K, Gu A, Rodriguez DJF, Clarke JO, Garcia P, **Fernandez-Becker NQ**, Sonu Irene, Kamal A, Sinha S. A Novel Machine Algorithm To Interpret Esophageal 24-HourPH/Impedance. *Digestive Disease Week 2022*. San Diego California.

Poster of Distinction:

1. Jove A, Lin C, Hwang JH, **Fernandez-Becker NQ**, Huang RJ. Clinical and Serologic Features of Autoimmune Metaplastic Atrophic Gastritis: Results of an Electronic Health Records Cohort. *Digestive Disease Week 2024*. Washington, D.C.

Poster Presentations:

1. **Fernandez, NQ**, Goltz JS, Stein DS. I κ B Kinase Target Motif Region of Cactus is Dispensable for its Regulation. 41st Annual Drosophila Research Conference. Pittsburgh, Pennsylvania
2. **Fernandez-Becker N**, Moss AC. In silico analysis of T-bet expression in peripheral blood mononuclear cells in patients with inflammatory bowel disease (IBD). *Digestive Disease Week 2008*. San Diego, California.
3. Moss AC, Kim KJ, **Fernandez-Becker N**, Cury D, Cheifetz AS. Long-term outcome in infliximab recipients are independent of concomitant immunomodulator use in patients with Crohn's disease. *Digestive Disease Week 2008*. San Diego, California
4. **Fernandez-Becker N**, Kim KJ, Cury D, Cheifetz AS, Moss AC. The natural history of infusion reactions in infliximab recipients. *Digestive Disease Week 2008*. San Diego, California.
5. Garrett Lawlor, Awais Ahmed, **Nielsen Fernandez-Becker**, Aiping Bai, Dusan Hanidziar, Adam Cheifetz, Simon Robson, Alan C Moss. Lymphotoxin-beta

expression predicts response to anti-TNF therapy in active Crohn's disease. Gastroenterology, Digestive Disease Conference 2011. Chicago, Illinois.

6. Shields H., **Fernandez-Becker N**, Flier S, Clarke P, Vaughn B, Tukey M, Kelsey P, O'Farrell P, Blanco P, Kapple S, Sepe P, Berzin T, Magge S, Ketwaroo A, Xavier-Depina F, Pelletier S, Horst D. Volunteer . Patients, Small Groups and Mandatory Faculty Development are Key Elements for Abdominal Examination's Teaching Excellence over a Five Year Period. Digestive Disease Conference. Chicago, Illinois.
7. Valenzuela A, Li S, Becker L, **Fernandez-Becker N** Khanna D, Nguyen L, Chung L. Intestinal pseudo-obstruction in patients with Systemic Sclerosis: an analysis of the Nationwide Inpatient Sample. American College of Rheumatology Annual Meeting. Boston, Massachusetts.
8. Pan J, Zikos T, Chang M, Limketkai B, Banerjee D, **Fernandez-Becker, NQ**. Outcomes of endoscopic procedures on patients with Left-Ventricular Assist Devices [LVADs]: experiences from a single-center retrospective case series Digestive Disease Week 2017. Chicago, Illinois.
9. Mehta BK ,Franks JM, Cai G, Toledo DM, Wood TA, Archambault KA, Kosarek NN, Kolstad KD, Stark M, Valenzuela A, Fiorentino D, **Fernandez-Becker N**, Becker L, Nguyen L, Clarke J, Boin F, Wolters P, Chung L, Whitfield ML. Multi-Organ RNA-Sequencing Of Patients With Systemic Sclerosis (SSc) Finds That Intrinsic Subsets Are Conserved Across Organ Systems. American College of Gastroenterology 2017 Annual Meeting. San Diego, California.
10. Zikos T, Nguyen L, **Fernandez-Becker N**, Regalia K, Nandwani M, Garcia M, Okafor P, Sonu I Clarke J. Patient reported anti-emetic efficacy in a tertiary academic practice: Which anti-nausea medications do our patients feel work best? Federation of Neurogastroenterology and Motility Conference 2018. Amsterdam, Netherlands.
11. Zikos T, Sonu I, Triadafilopoulos G, Regalia K, Nandwani M, Nguyen L, **Fernandez-Becker N**, Clarke J. A low proximal esophageal basal impedance does not predict the presence of extra-esophageal manifestations of gastrointestinal reflux disease. Federation of Neurogastroenterology and Motility Conference 2018. Amsterdam, Netherlands.
12. Triadafilopoulos G, Korzilius J, Zikos T, Kamal A, Regalia K, Sonu I, **Fernandez-Becker NQ**, Nguyen L, Clarke J. Prolonged (96 H) Wireless Ambulatory Esophageal Ph Study in Patients Presenting with GER Symptoms Under Different Dietary conditions: A Novel, Practical Concept to Minimize PPI Use. Digestive Disease Week 2019. San Diego, California.

13. Zikos T, Nguyen L, Kamal A, **Fernandez-Becker NQ**, Regalia K, Nandwani M, Sonu I, Garcia M, Okafor P, Neshatian L, Grewal D, Garcia P, Clarke J. Which Anti-Nausea Therapies Do Patients Believe Work Best? A Patient Reported Efficacy Study. Digestive Disease Week 2019. San Diego, California.
14. Gottfried A, Poon Adler E, **Fernandez-Becker N**, Clarke J, Habtezion A, Nguyen L. Transcutaneous Vagal Nerve Stimulation Improves Symptoms and Gastric Emptying in Patients with Idiopathic Gastroparesis. Digestive Disease Week 2019. San Diego, California.
15. Gottfried A, Namkoong H, Poon Adler E, **Fernandez-Becker N**, Clarke J, Habtezion A, Nguyen L. Immune Profiling of the Human Gastric Mucosa in Health and Gastroparesis. Digestive Disease Week 2019. San Diego, California
16. Bush J, Bingham D, **Fernandez-Becker NQ** When all Signs Point to Celiac- A Case of Non-Celiac Enteropathy. American College of Physicians Virtual Conference 11/7/2020
17. Kathpalia P, Kamal A, Otaki F, Bredenoord A, Dellon S, Falk GW, **Fernandez-Becker NQ**, Gonsalves Np, Hirano Ikuo, Katzka DA, Peterson KA, Yadlapati RY, Leiman DA. Quality Indicators for the Diagnosis and Management of Eosinophils Esophagitis: Results from a Delphi Process. Digestive Disease Week 2022. San Diego California.
18. Karhu E, Neshatian L, **Fernandez-Becker NQ**; Sonu I Gottfried-Blackmore A, Spencer S, Nguyen, L “Cromolyn is effective in reducing symptoms in patients with IBS, FD and GP. Patients with underlying atopy, including MCAS, are more likely to respond.” ACG 2023. Vancouver Canada
19. Hu K and **Fernandez-Becker NQ**, “A Case of mRNA Vaccine-Induced Autoimmunity”. ACG 2023. Vancouver Canada
20. Achalu S, Berry R, Bhargava M, Bredenoord AJ, Chang JW, Dellon ES, Falk GW, **Fernandez-Becker N**, Hirano I, Horsley Silva, JL, Leiman DA, Lynch KL Peterson K, Kamal AN. Esophageal Expert Development of a Disease-Specific Question Prompt List for Adults with Eosinophilic Esophagitis: A Modified Delphi Study. ACG 2023. Vancouver Canada

COMMUNITY SERVICE:

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| 12/ 2012 | Guest on KQED National Public Radio show Forum “Going Gluten-Free”. http://www.kqed.org/a/forum/R201212071000 |
| 12/2015 | Interviewed by PBS Newshour aired 12/28/15 segment titled “Is it really gluten free”. http://www.pbs.org/newshour/bb/is-it-really-gluten-free- you-could-soon-test-it-table-side/ |

07/2017	Exhibitor in Expo at the Annual Professional Soccer San Jose Earthquakes vs Los Angeles Galaxy at Stanford Stadium
11/2017	Exhibitor, Gluten Free Allergy Free Expo, San Mateo, California
10/2018	Invited Panel Discussant, First Generation Health Professionals at Dia de los Muertos Conference at Stanford
6/2020	Stanford Medicine Digestive Health Series. Eating right: Thrive Well with the Gluten Free Diet Webinar
1/11/22	East Palo Alto Academy "My Journey" Presentation and Mentorship Discussion with Students from East Palo Alto High School
7/18/22	Foothill College Anatomy and Physiology Class Guest Speaker: Celiac Disease and discussion of my personal journey to medicine.
4/2023	Wellness Grant Recipient to improve Ergonomics in Workplace
5/2023	Hosted career Day Palo Alto Academy