

Guang-Yu Yang, MD, PhD



Professor and Chair
Department of Pathology
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Education

Undergraduate/Graduate

1983 MD China Medical University, Shenyang, Liaoning, China

1986 MS in Tumor Pathology, Cancer Institute, China Medical University, Shenyang, Liaoning, China

1992 Ph.D in Molecular Pathology, Cancer Institute, China Medical University, Shenyang, Liaoning, China

Postdoctoral Research Training

1994 Postdoctoral Fellow in Pathology, University of Maryland School of Medicine, Baltimore, MD

1995 Postdoctoral Associate, Susan Lehman Cullman Laboratory for Cancer Research, Department of Chemical Biology, Rutgers University, Piscataway, NJ

1997 Research Associate, Susan Lehman Cullman Laboratory for Cancer Research, Department of Chemical Biology, Rutgers University, Piscataway, NJ

Resident/Fellowship Training

2004 Anatomic and Clinical Pathology Residency training, New York University Medical Center, NYC

2005 GI/Liver Pathology Fellowship, Johns Hopkins University School of Medicine, Johns Hopkins Medical Institute/Hospital, Baltimore, MD

Licenses & Certifications

Medical License

State of Illinois

State of Virginia

Board Certifications

Anatomic and Clinical Pathology, American Board of Pathology

Selected Awards & Honors

2025 CAPA distinguished Pathologist award from Chinese American Pathologist Association at USCAP Annual meeting/23rd CAPA Annual Meeting

2016 The First inaugural Harold Eisenberg Research Scholar, The Robert H. Lurie Comprehensive Cancer Center at Northwestern University, Chicago IL.

2012 Joseph C. Calandra Professor in Pathology and Toxicology, Northwestern University, Chicago IL.

Recent Grants & Funding

Grants and Contracts

Active

R01-NIH/NIDDK DK137885

PI: G Yang 2/1/2024 - 1/31/2028

Title: Role of epoxy fatty acids - soluble epoxide hydrolase axis in intestinal mucosal barrier defense

NIH/NCI Contract Clinical Trial

NCPC NWU20-02-02 PI: G Yang 3/1/2021 - 1/30/2026

Title: Targeting Dominant-Negative Missense Mutant p53 by Atorvastatin for Reducing the Risk of Longstanding Ulcerative Colitis-Associated Cancer – Two-Arm, Randomized and Placebo-Controlled Phase II clinical trial

\$541,052/total

NIH U54AI117804, Agreement with Cincinnati Children's Hospital,

PI: M Rothenberg

Subcontract PI: G Yang 8/15/14 - 8/31/2025 (NCE) \$10.805 salary

Title: Consortium of Eosinophilic Gastrointestinal Disease Researchers

NMH/Digestive Health Foundation

PI: G. Yang 07/01/22 - 6/30/25 (NCE) \$50,000 direct cost/year

Title: Pathogenesis of Achalasia.

P01DK117824

NIH/NIDDK PI: Pandolfino 07/01/18 - 06/30/25 (NCE) 0.24 calendar months

Title: Disordered Tissue Biomechanics as a Driver of Esophageal Disease

Completed

R01 (R01DK107767) NIH/NCI

PI: G Yang 4/5/16 - 3/31/2021 (NCE)

\$321,772 direct costs/year 1.44 calendar months

Title: ω -3 derived epoxy fatty acids and sEH in pancreatitis-induced carcinogenesis

R01 (CA172431) NIH/NCI PI: G Yang 7/1/13 - 10/31/19 (NCE)

\$220,865 direct costs/year 0.96 calendar months

Title: Inhibition of pancreatic carcinogenesis via targeting c-Raf and sEH

R01(CA164041) NIH/NCI PI: G Yang 08/09/12-12/31/18 (NCE)

\$214,223 direct costs/year 1.44 calendar months

Title: Aldo-keto reductase family 1 member B10 AKR1B10 in pancreatic carcinogenesis

Editorial Advisory Boards

2000 - present:

Editorial Board member, International Journal of Clinical and Experimental Pathology

Editorial Board member, Journal of Clinical and Translational Pathology

Editorial Board member, American Journal of Translational Research

Editorial Board member, World Journal of Gastrointestinal Pathophysiology (WJGP)

Editorial Board member, World Journal of Gastroenterology (WJG)

Editorial Board member, Chinese Journal of Practical Internal Medicine

Editorial Board member, ISRN Gastroenterology

Editorial Board member: Cell Pathology (ISSN: 2300-4266)

Professional Service (outside)

Current activities

Member of NCI Gastrointestinal Steering Committee: Rectal-Anal Task Force

Member of Consortium of Eosinophilic Gastrointestinal Disease Researchers

Recent Invited Presentations

2024 ASCP annual meeting, Chicago, USA, Short Course, entitled: "Eosinophilic gastrointestinal disease beyond the esophagus: consensus nomenclature and new international guidelines" Course co-director

2023 USCAP annual meeting, New Orleans, USA, Short Course, entitled "Challenge and diagnosis in pancreas needle core biopsy" Course co-director

2023 ASCP annual meeting, Long Beach, CA, USA, Short Course, entitled "Diagnostic Challenges in Lower Gastrointestinal Tract Ulcer: Morphological Pattern Recognition and Histopathological Approach" Course co-director

2022 USCAP annual meeting, Los Angeles, USA, Short Course, entitled "Challenge and diagnosis in pancreas needle core biopsy" Course co-director

2021 Speaker, College of American Pathology (CAP) annual meeting, Chicago, Medscape Event/Symposium, entitled "Setting the Bar on EGIDs Diagnosis"

2017 Organizing Committee Member - The International Symposium on the Application of IP6 and Inositol in Health and Other Fields, "Inhibition of colitis-induced carcinogenesis by inositol compounds", Xi'an, China

2017 The 5th Annual Hormel Institute International Cancer Research, "Chemoprevention of Colitis-induced carcinogenesis via Targeting Soluble epoxide hydrolase", Austin, MN.

2017 Experimental Biology Meeting at Chicago Speaker at ASIP symposium session of Cancer Chemoprevention and Biomarker development, "Chemoprevention of inflammation-induced carcinogenesis via targeting soluble epoxide hydrolase and aldoketo-reductase 1B10 (AKR1B10)", Chicago, IL.

2017 Yale University, Department of Pathology, Grant Rounds Talk: "Role of Mevalonate Metabolic Pathway in Mutant Kras/p53-driven pancreatic carcinogenesis", New Haven, CT.

Selected Publications

Peer Reviewed Papers

Lyu H, Chen X, Cheng Y, Zhang T, Wang P, Wong JH, Wang J, Stasiak L, Sun L, **Yang G**, Wang L, Yue F. Pioneer factor GATA6 promotes colorectal cancer through 3D genome regulation. Science Advances. 2025 Feb 7;11(6):eads4985. PMID: 39919174

Jennifer Y Ju, David J Escobar , Yue Xue, Adam L Booth , Jessica Nguyen, **Guang-Yu Yang**: Small bowel pyloric metaplasia is associated with lower rates of earlier recurrence of Crohn's disease after resection. Hum Pathol., 2024 Sep;151:105629. PMID: 39029533

Amanda Meindl, M. Sambasiva Rao and **Guang-Yu Yang**. Unique Morphologic Features of a Case of Hermansky- Pudlak Syndrome in the Colon: Extensive Mucosal Lipofuscin Pigmented Histiocytes and Crohn's-like Mucosal Granulomatous Colitis. Journal of Clinical and Translational Pathology 2024 vol. 4(4):172–177. DOI: 10.14218/JCTP.2024.00038

Chornenkyy Y, Fink MC, Felicelli C, Stowell SR, Ramsey GE, **Yang GY**. Characterising the challenges of managing difficult red blood cell alloantibodies in liver transplant recipients. J Clin Pathol. 2024 May 15:jcp-2024-209399. Online ahead of print. PMID: 38749663

Abe,K; Maunze,B; Lopez,PA; Xu,J; Muhammad,N; **Yang,GY**; Katz,D; Liu,Y; Lauberth,SM: Downstream-of-gene (DoG) transcripts contribute to an imbalance in the cancer cell transcriptome. Science advances. 2024 Jul; 2375-2548. PMID: 38959318

Bu HF, Subramanian S, Chou PM, Liu F, Sun L, Geng H, Wang X, Liao J, Du C, Hu J, Tan SC, Nathan N, **Yang GY**, Tan XD. A novel mouse model of hepatocyte-specific apoptosis-induced myeloid cell-dominant sterile liver injury and repair response. Am J Physiol Gastrointest Liver Physiol. 2024 Oct 1;327(4):G499-G512. PMID: 39104322

Bu HF, Subramanian S, Chou PM, Liu F, Sun L, Geng H, Wang X, Liao J, Du C, Hu J, Tan SC, Nathan N, **Yang GY**, Tan XD. A novel mouse model of hepatocyte-specific apoptosis-induced myeloid cell-dominant sterile liver injury and repair response. Am J Physiol Gastrointest Liver Physiol. 2024 Oct 1;327(4):G499-G512. PMID: 39104322

Arva NC, Bernieh A, Lopez-Nunez O, Pletneva M, **Yang GY**, Collins MH.
Histopathology of Eosinophilic Gastrointestinal Diseases Beyond Eosinophilic
Esophagitis. Immunol Allergy Clin North Am. 2024 May;44(2):369-381. Epub 2024
Feb 14. PMID: 38575230

Collins MH, Arva NC, Bernieh A, Lopez-Nunez O, Pletneva M, **Yang GY**.
Histopathology of Eosinophilic Esophagitis. Immunol Allergy Clin North Am. 2024
May;44(2):205-221. Epub 2024 Jan 16. PMID: 38575219

Obeng RC, Escobar DJ, Vadasz B, Zheng W, Ju JY, Booth AL, **Yang GY**, Al Diffalha
S, Dhall D, Westerhoff M, Xue Y. Histologic Features of Liver Injury Associated
With SARS-CoV-2 Messenger RNA Vaccines. Arch Pathol Lab Med. 2024 Sep 9.
Online ahead of print. PMID: 39246098