

Ruijie Zeng

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Education

2020.08-	Guangdong Provincial People's Hospital/ Guangdong Academy of Medical Sciences	Resident physician
	Supervisor: Professor Weihong Sha	
2016.09-2017.06	Faculty of Medicine, The Chinese University of Hong Kong (CUHK)	Exchange student
2015.09-	Shantou University Medical College	MBBS
	(Joint supervision project with CUHK; bachelor-master integration project)	Master student
	Supervisor: Professor Enmin Li & Professor Liyan Xu	

Selected Publications (#equal contribution)

- 1 **Zeng RJ**[#], Sha WH[#], Wang JH[#], Zhuo ZW, Wu HH, Leung FW, Chen H. Evaluation of proton pump inhibitors and risks of gastric cancer. *Gut*. 2021 Nov. **(Q1, 2020 IF=23.509)**
- 2 **Zeng RJ**, Sha WH, Leung FW, Chen H. Proton pump inhibitors and Biliary Tract Cancer Risk: Causality or Reverse Causality? *Hepatology*. 2021 Aug 5 **(Q1, 2020 IF=17.422)**
- 3 **Zeng RJ**[#], Wu H[#], Qiu X[#], Zhuo Z, Sha W, Chen H. Predicting survival and immune microenvironment in colorectal cancer: a STAT signaling-related signature. *QJM*. 2022 Jan 3 **(Q2, 2020 IF=3.210)**
- 4 **Zeng RJ**[#], Zheng CW[#], Chen WX, Xu LY, Li EM. Rho GTPases in cancer radiotherapy and metastasis. *Cancer Metastasis Rev*. 2020 Dec;39(4):1245-1262. **(Q1, 2020 IF=9.260)**
- 5 **Zeng RJ**[#], Cheng Y[#], Luo D[#], Wang J[#], Yang J, Jiang L, Zhuo Z, Guo K, Wu H, Leung FW, Sha W, Chen H. Comprehensive analysis of proton pump inhibitors and risk of digestive tract cancers. *Eur J Cancer*. 2021 Sep 1;156:190-201. **(Q1, 2020 IF=9.162)**
- 6 **Zeng RJ**[#], Wang JH[#], Zhuo ZW, Luo YJ, Sha WH, Chen H. Stem cells and exosomes: promising candidates for necrotizing enterocolitis therapy. *Stem Cell Res Ther*. 2021 Jun 5;12(1):323. **(Q1, 2020 IF=6.834)**
- 7 **Zeng RJ**[#], Zheng CW[#], Gu JE, Zhang HX, Xie L, Xu LY, Li EM. RAC1 inhibition reverses cisplatin resistance in esophageal squamous cell carcinoma and induces downregulation of glycolytic enzymes. *Mol Oncol*. 2019 Sep;13(9):2010-2030. **(Q1, 2020 IF=6.603, Cited by 30)**
- 8 **Zeng RJ**[#], Huang SJ[#], Qiu XQ[#], Zhuo ZW, Wu HH, Jiang L, Sha WH, Chen H. Predicting the Prognosis of Esophageal Adenocarcinoma by a Pyroptosis-Related Gene Signature. *Front Pharmacol*. 2021 **(Q1, 2020 IF=5.810)**
- 9 **Zeng RJ**[#], Zhuo Z[#], Luo Y, Sha W, Chen H. Rho GTPase signaling in rheumatic diseases. *iScience*. 2021 Dec 14;25(1):103620. **(Q1, 2020 IF=5.458)**

- 10 **Zeng RJ**, Lin CQ, Lin ZH, Chen H, Lu WY, Lin CM, Li HH. Approaches to cutaneous wound healing: basics and future directions. *Cell Tissue Res*. 2018 Nov;374(2):217-232. **(Q1, 2020 IF=5.242, Cited by 56)**
- 11 **Zeng RJ**[#], Xie WJ[#], Zheng CW[#], Chen WX, Wang SM, Li Z, Cheng CB, Zou HY, Xu LY, Li EM. Role of Rho guanine nucleotide exchange factors in non-small cell lung cancer. *Bioengineered*. 2021 Dec;12(2):11169-11187 **(Q2, 2020 IF=3.269)**
- 12 **Zeng RJ**[#], Wang J[#], Jiang R[#], Yang J[#], Wu H, Zhuo Z, Yang Q, Li J, Leung F, Sha W, Chen H. Inflammatory Bowel Disease and Neurodegenerative Disorders: Integrated Evidence from Mendelian Randomization, Shared Genetic Architecture and Transcriptomics. *MedRxiv*. 2022 May (under review in *BMC Med*)
- 13 **Zeng RJ**[#], Jiang R[#], Wang J[#], Yang J, Wu H, Zhuo Z, Yang Q, Li J, Liao S, Tse H, Leung F, Sha W, Chen H. Investigating Causal Relationships between Inflammatory Bowel Disease and Autism Spectrum Disorder: A Bidirectional Two-sample Mendelian Randomization Study. *MedRxiv*. 2022 June (under review in *Inflamm Bowel Dis*)
- 14 Zheng CW[#], **Zeng RJ**[#], Xu LY, Li EM. Rho GTPases: Promising candidates for overcoming chemotherapeutic resistance. *Cancer Lett*. 2020 Apr 10;475:65-78. **(Q1, 2020 IF=8.642)**
- 15 Chen H[#], Wang J[#], **Zeng RJ**[#], Luo Y, Guo K, Wu H, Yang Q, Jiang R, Sha W, Zhuo Z. Development and Validation of a Novel Mitophagy-Related Gene Prognostic Signature for Hepatocellular Carcinoma Based on Immunoscore Classification of Tumor. *J Oncol*. 2021 Oct 25;2021:5070099. **(Q2, 2020 IF= 4.375)**
- 16 Zheng Y, Guo K, **Zeng RJ**, Chen Z, Liu W, Zhang X, Liang W, Liu J, Chen H, Sha W. Prognosis of rectal neuroendocrine tumors after endoscopic resection: a single-center retrospective study. *J Gastrointest Oncol*. 2021 Dec;12(6):2763-2774. **(Q2, 2020 IF=2.892)**
- 17 Zhuo Z, Wang J, Luo Y, **Zeng RJ**, Zhang C, Zhou W, Guo K, Wu H, Sha W, Chen H. Targeted extracellular vesicle delivery systems employing superparamagnetic iron oxide nanoparticles. *Acta Biomater*. 2021 Jul 18:S1742-7061(21)00465-7. **(Q1, 2020 IF=8.940)**
- 18 Cheng CB, Seen D, Zheng CW, **Zeng RJ**, Li EM. Role of Small GTPase RhoA in DNA Damage Response. *Biomolecules*. 2021 Feb 3;11(2):212. **(Q1, 2020 IF=4.872)**
- 19 Zhang C, Cheng Y, Luo D, Wang J, Liu J, Luo Y, Zhou W, Zhuo Z, Guo K, **Zeng RJ**, Yang J, Sha W, Chen H. Association between cardiovascular risk factors and colorectal cancer: A systematic review and meta-analysis of prospective cohort studies. *EClinicalMedicine*. 2021 Mar 18;34:100794.

Conference

- 1 **Zeng RJ**, Leung F, Sha WH, Chen H. An Unfounded Concern - Proton Pump Inhibitors and Risk of Digestive Tract Cancers: A Systemic Review and Meta-Analysis. ACG 2021 **(Presidential Poster Awards, Top 10% worldwide)**.
- 2 **Zeng RJ**, Zheng CW, Gu JE, Xu LY, Li EM. RAC1 inhibitors reverse the chemoresistance of esophageal cancer. The 13th National Conference on Undergraduate Innovation and Entrepreneurship. **(Outstanding Paper Awards, 2 selected nationwide in medicine)**
- 3 **Zeng RJ**, Zheng CW, Chen WX, Xu LY, Li EM. Overcoming cisplatin resistance of esophageal squamous cell carcinoma by targeting RAC1-regulated Warburg effect. Proceedings: AACR Annual Meeting 2019.

Scholarships

2021	China National Scholarship by Ministry of Education (Ranking 1st in the major)
2021	First-Class Scholarship in Shantou University Medical College (Ranking 1st in the major)
2020	Stanford University Exchange Project Scholarship in Shantou University Medical College (Date to be confirmed due to COVID-19)
2020	Outstanding Student Scholarship of United States Medical Licensing Examination (USMLE) in Shantou University Medical College (USMLE Step 1 Passed: 232)
2018	First-Class Scholarship in Shantou University Medical College (Ranking 1st in the major)
2018	Dr. Siu Hon Leung Scholarship in Shantou University Medical College
2016	CUHK Exchange Project Scholarship in Shantou University Medical College
2015-2019	Full Scholarship in Shantou University Medical College

Awards

2021	Presidential Poster Awards , ACG 2021
2020	2nd prize of The 6 th National Competition for Undergraduate on Innovation Research and Experimental Design in Basic Medical Sciences
2020	Outstanding Paper Awards of The 13 th National Conference on Undergraduate Innovation and Entrepreneurship (2 selected nationwide in medicine)
2020	Honorary Award of Graduate Students in Shantou University Medical College
2019	1st prize of National Five-minute Scientific Research Speech Contest
2018	1st prize of oral presentation in 5 th SUMC Research Day

Experience

Leadership and Research Experience

2022	Clinical Research Group in Guangdong Provincial People's Hospital - Develop research schedules and provide instructions to the juniors	Team Leader
2021	National Competition for Undergraduate on Innovation Research and Experimental Design in Basic Medical Sciences - Activators of Rac1 and esophageal cancer - 2nd prize in national competition	Team Leader
2019	Key project for the Cultivation of Guangdong College Students' Scientific and Technological Innovation ('Climbing Program') - Rac1 and chemoresistance of esophageal cancer - Graded excellent in final research project report	Team Leader
2017	Disease-related Genes Cloning and Functional Research Course - Rac1 and esophageal squamous cell carcinoma - Graded excellent in final research project report	Team Leader

2017	National Undergraduate Training Program for Innovation	Team Leader
	- Wound healing and repair	
	- Graded excellent in final research project report	
2015	Scientific Reasoning in Medicine (SRM) Course	Team Leader
	- Air pollution and intelligence	
	- 1st prize in research proposal presentation and final report	

Clinical Experience

2022	Guangdong Provincial People's Hospital	Resident
	- Rotations in departments of pneumology, radiology, and emergency	
2021	- Rotations in departments of nephrology, geriatrics, endocrinology, neurology, hematology, and rheumatology	
	- Medical Practitioners Qualification Certificate in China	
2020	- Rotations in departments of cardiology, gastroenterology and hepatology	
2019	The First Affiliated Hospital of Shantou University Medical College	Internship
	- Internal medicine, surgery, gynecology, pediatrics	
2017	The Cancer Hospital of Shantou University Medical College	Pre-Internship
	- Department of surgical oncology	

Journal Reviews

2021	Journal of Visualized Experiments (JOVE)	Guest Editor
2021	Stem Cell Research & Therapy	Invited Reviewer

Volunteer

2018	Hospice Service Team of Shantou University Medical College	Member
	- Provide support to the people suffering from end-stage malignancies and their families	
2018	Creative Works of Love for Deaf-mute Children	Volunteer
	- Create and donate artworks to the deaf-mute children	
2017	Shantou International Marathon	Volunteer
	- Provide medical support to the participants	

Patents

Experimental wound protection device of rats (First inventor)	209548141U
Hand-operated simple pipette tip loader (Second inventor)	211026386U