

Curriculum Vitae

Ravikanth Maddipati, MD

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Address: UT Southwestern Medical Center,
Internal Medicine, Digestive and Liver Diseases
5323 Harry Hines Blvd
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Education:

2001	BSE	University of Michigan (Computer and Electrical Engineering)
2002	MSE	University of Michigan (Biomedical Engineering)
2008	MD	Boston University School of Medicine (Medicine)

Postgraduate Training and Fellowship Appointments:

2008-2010	Resident in Internal medicine (American Board of Internal Medicine- Physician Scientist Pathway), Massachusetts General Hospital
2010-2014	Fellow in Gastroenterology, University of Pennsylvania

Hospital and/or Administrative Appointments:

2014-2019	Instructor in Medicine, University of Pennsylvania
2019-present	Assistant Professor, UT Southwestern

Specialty Certification:

2013	American Board of Internal Medicine Certification in Internal Medicine
2014	American Board of Internal Medicine Certification in Gastroenterology

Licensure:

2010-2019	Commonwealth of Pennsylvania
2019-present	Texas

Awards, Honors and Membership in Honorary Societies:

2001	Magna Cum Laude Graduate, University of Michigan-College of Engineering
2002	Biomedical Engineering Department Research Grant for academic excellence
2003	Medical Student Research Program Research Fellowship, Boston University School of Medicine
2005	Elected member of the Association of Pathology Chairs Honor Society
2005-2006	Joseph Collins Foundation Medical Scholarship, Boston University School of Medicine
2006-2007	HHMI-NIH Medical Research Scholar, Howard Hughes Medical Institute

2007	Abstract Award Winner, National Institute of Arthritis and Musculoskeletal and Skin Diseases (NAIMS) at the National Institutes of Health (NIH)
2007-2008	Rafuse Medical Scholarship, Boston University School of Medicine
2008	Magna Cum Laude, Boston University School of Medicine
2008	Elected member of the Alpha Omega Alpha Medical Society
2008-2010	ABIM Physician-Scientist Pathway, Department of Medicine, Massachusetts General Hospital.
2013	Frank Brooks Excellence in Research Award for Gastroenterology Fellows, University of Pennsylvania
2019-Present	CPRIT Scholar, UT Southwestern Medical Center

Memberships in Professional and Scientific Societies and Other Professional Activities:

National:

2010-Present	American Association for the Study of Liver Diseases
2010-Present	American Gastroenterological Association - Chair for Abstract session on Cancer Stem Cells and Circulating Tumor Cells for American Gastroenterology Association and Digestive Diseases Week, Washington D.C. 2018 - Chair for Abstract session on Gastrointestinal Oncology: Cancer Stem Cells and Circulating Tumor Cells for American Gastroenterology Association and Digestive Diseases Week. Chicago, IL 2017
2010-Present	American Society of Gastrointestinal Endoscopy
2014-Present	American Association of Cancer Research
2015-Present	American Pancreas Association - Abstract Reviewer for the Annual Meeting of the American Pancreatic Association.

Editorial Activities

Ad Hoc Reviewer

2017-Present	Gastroenterology
2018-Present	Cancer Biology and Therapy
2019-Present	Cancer Investigation

Academic and Institutional Committees:

2014-Present	Gastroenterology Fellowship Program Admissions Committee
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Major Academic and Clinical Teaching Responsibilities:

2010-Present	Teaching of Gastroenterology Fellows, Internal Medicine Residents and Medical Students in clinic and on hospital rounds
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2014-Present	Supervision and mentorship of current and previous laboratory members including: (1) Max Wengyn, BS, Research Specialist A, 2018-Present (2) Robert Norgard, PhD candidate, University of Pennsylvania, Cellular and Molecular Biology, 2015-Present (3) Gajaan Sittambalam, University of Pennsylvania Undergraduate Research Student, 2015-2018 (4) Taylor Black, MSc, Research Specialist A, 2016-2017 (5) Amine Sahmoud, University of Pennsylvania Undergraduate Research Student, 2014-2016
2014	"Diagnosis and Management of Hepatitis B Virus Infections." Lecture given at Internal Medicine Resident Lecture Series
2017-Present	Lecturer, Pancreas biology, Gastroenterology Pathophysiology Course, Perelman School of Medicine
2018	Preceptor, Cellular and Molecular Biology (CAMB) 701, Tumor Microenvironment, Perelman School of Medicine

Lectures by Invitation:

Jun, 2015	"Origins of clonal heterogeneity in metastatic pancreatic cancer.", 16th Annual NIH Center for Molecular Studies in Digestive and Liver Disease, Philadelphia, PA
Nov, 2015	"Impact of tumor heterogeneity on metastatic progression in pancreatic cancer.", Cell Press, Lablinks symposium, Philadelphia PA
Nov, 2015	"Pancreatic Cancer metastasis harbor evidence of polyclonality.", American Pancreas Association, San Diego CA
Oct, 2016	"Modeling Clonal Evolution in Pancreatic Cancer", American Pancreas Association, Boston MA
Jan, 2017	"Clonal Evolution in pancreatic cancer: a colorful tale." Washington University, St. Louis MO
Jan, 2018	"Delineating mechanisms of pancreatic tumor metastasis." Columbia University, New York, NY
April, 2018	"The origins of metastasis in pancreatic cancer." Yale University, New Haven, CT
Sept, 2018	"Mechanisms underlying clonal evolution and heterogeneity in pancreatic cancer." University of Michigan, Ann Arbor, MI
Oct, 2018	"Mechanisms of tumor metastasis." University of Texas Southwester, Dallas, TX

Grants:Current:

The role of progenitor cells in pancreatic acinar renewal and pre-malignant progression, NIH/NIDDK K08 Career Development Award, NIH/NIDDK, 1K08-DK109492, 3/2017-11/2021 (Ravikanth Maddipati, PI), (Role in grant: PI)

Mechanisms of clonal evolution and metastatic progression in pancreatic cancer, CPRIT-Scholar, Cancer Prevention & Research Institute of Texas, RR190029, 8/2019-7/2024 (Ravikanth Maddipati, PI), (Role in grant: PI)

Mechanisms underlying metastatic heterogeneity in pancreatic cancer, Disease-Oriented Clinical Scholars (DOCS) award, UT Southwestern, 8/2019-7/2024 (Ravikanth Maddipati, PI), (Role in grant: PI)

Past:

Delineating mechanisms of Myc-dependent metastatic progression in pancreatic cancer, American Gastroenterological Association (AGA)-Caroline Craig Augustyn & Damian Augustyn Award in Digestive Cancer, 7/2018-6/2018 (Ravikanth Maddipati, PI), (Role in grant: PI)

Cellular Basis of Pancreatic Acinar Regeneration, Center for Molecular Studies in Digestive and Liver diseases, Abramson Cancer Center, University of Pennsylvania/NIH-NIDDK/NCI, 6/2016-6/2017 (Ravikanth Maddipati, PI), (Role in grant: PI)

Progenitor cells in pancreatic pre-neoplasia and malignant progression, Center for Molecular Studies in Digestive and Liver diseases, University of Pennsylvania/NIH-NIDDK, 6/2015-6/2016 (Ravikanth Maddipati, PI), (Role in grant: PI)

The Origin of Clonal Heterogeneity in Metastatic Pancreatic Cancer, Paul Calabresi Career Development Award (Institutional K12), Abramson Cancer Center, University of Pennsylvania, K12-CA076931, 7/2014-8/2016 (Ravikanth Maddipati, PI), (Role in grant: PI)

Training Program in Gastrointestinal Sciences, T32 Training grant, NIH/NIDDK, 5T32DK007066, 7/2011-6/2014 (Anil Rustgi, PI), (Role in grant: Fellow/Trainee)

Bibliography (*Co-first author, †Co-corresponding author):

Research Publications, peer reviewed (print or other media):

1. Vu, T.Q., **Maddipati, R.**, Blute, T.A., Nehilla, B.J., Nusblat, L., Desai, T.A.: Peptide-conjugated quantum dots activate neuronal receptors and initiate downstream signaling of neurite growth. Nano letters 5(4): 603-7, Apr 2005.
2. Simon, A., Park, H., **Maddipati, R.**, Lobito, A.A., Bulua, A.C., Jackson, A.J., Chae, J.J., Ettinger, R., de Koning, H.D., Cruz, A.C., Kastner, D.L., Komarow, H., Siegel, R.M.: Concerted action of wild-type and mutant TNF receptors enhances inflammation in TNF receptor 1-associated periodic fever syndrome. Proceedings of the National Academy of Sciences of the United States of America 107(21): 9801-6, May 2010. PMID: PMC2906866
3. Bulua, A.C., Simon, A., **Maddipati, R.**, Pelletier, M., Park, H., Kim, K., Sack, M.N., Kastner, D.L., Siegel, R.M.: Mitochondrial reactive oxygen species promote production of proinflammatory cytokines and are elevated in TNFR1-associated periodic syndrome (TRAPS). The Journal of experimental medicine 208(3): 519-33, Mar 2011. PMID: PMC3058571

4. Yanger, K., Zong, Y., Maggs, L.R., Shapira, S.N., **Maddipati, R.**, Aiello N.M., Thung, S.N., Wells, R.G., Greenbaum, L.E., Stanger, B.Z.: Robust cellular reprogramming occurs spontaneously during liver regeneration. Genes & development 27(7): 719-24, Apr 2013. PMID: PMC3639413
5. Gao, T., Zhou, D., Yang, C., Singh, T., Penzo-Méndez, A., **Maddipati, R.**, Tzatsos, A., Bardeesy, N., Avruch, J., Stanger, B.Z: Hippo signaling regulates differentiation and maintenance in the exocrine pancreas. Gastroenterology 144(7): 1543-53, 1553.e1, Jun 2013. PMID: PMC3665616
6. **Maddipati, R.** and Stanger B.Z: Pancreatic Cancer Metastases Harbor Evidence of Polyclonality. Cancer Discovery 5(10): 1086-97, Oct 2015. PMID: 26209539
7. Aiello, N.M*, **Maddipati, R***, Norgard, R*, Balli, D., Li, J., Yaun, S., Yamazoe, T., Black, T., Sahmoud, A., Furth, E.E., Bar-Sagi, D., Stanger, B.Z.: Tumor Subtype influences epithelial plasticity and mode of cell migration. Developmental Cell 45: 681-695, June 2018. Notes: *Co-first authors. PMID: PMC6014628
8. Reichert M, Bakir B, Moreira L, Pitarresi JR, Feldmann K, Simon L, Suzuki K, **Maddipati R**, Rhim AD, Schlitter AM, Kriegsmann M, Weichert W, Wirth M, Schuck K, Schneider 4, Saur D, Reynolds AB, Klein-Szanto AJ, Pehlivanoglu B, Memis B, Adsay NV, Rustgi AK.: Regulation of Epithelial Plasticity Determines Metastatic Organotropism in Pancreatic Cancer. Developmental Cell 45(6): 696-711, June 2018. PMID: PMC6011231
9. Raman P*†, **Maddipati R***†, Lin KH, Tozeren A. Pancreatic cancer survival analysis defines a signature that predicts outcome. PlosOne. 2018;13(8):e0201751. Notes: *Co-first authors, †Co-corresponding authors.

Abstracts:

1. Vu, T.Q., **Maddipati, R.**, Blute, T.A., Nehilla, N.J., Nusblat, L., Desai, T.A. : Ligand-conjugated quantum dots for targeted drug delivery to nerve cells. Proceedings of the special topic conference on Microtechnologies, IEEE in Engineering in Biology and Medicine 2005 Notes: Abstract presentation in Hawaii.
2. **Maddipati, R.**, Simon, A., Park, H., Lobito, A., Komarow, H., Kastner, D., Siegel, R.: Misfolding and Endoplasmic Reticulum retention of mutant TNF-R1 receptors lead to ligand-independent signaling and hyper-responsiveness to inflammatory stimuli in the TNF-Receptor Associated Periodic Syndrome (TRAPS). 11th International TNF Conference 2007 Notes: Poster Presentation in Asilomar, CA.
3. **Maddipati, R.**, Simon, A., Park, H., Lobito, A., Komarow, H., Kastner, D., Siegel, R.: Endoplasmic Reticulum retention of mutant TNF-R1 receptors lead to ligand-independent signaling and hyper-responsiveness to inflammatory stimuli in the TNF-Receptor Associated Periodic Syndrome (TRAPS). National Institutes of Arthritis, Musculoskeletal, & Skin Diseases IRP 2007 Notes: Poster Presentation in Bethesda, MD.

4. **Maddipati, R.,** Stanger, B.Z.: Pancreatic Cancer metastasis harbor evidence of polyclonality. American Pancreas Association, National Meeting, San Diego CA 2015.
5. **Maddipati, R.,** and Stanger, B.Z. : Polyclonal Origin for Pancreatic Cancer Metastasis. Annual American Association for Cancer Research (AACR) meeting 2015 Notes: Poster Presentation in Philadelphia, PA.
6. **Maddipati, R.,** Stanger, B.Z.: Modeling Clonal Evolution in Pancreatic Cancer. American Pancreas Association, Boston MA 2016.

Editorials, Reviews, Chapters, including participation in committee reports (print or other media):

1. **Maddipati, R:** Circulating tumor cells, how close are we? AGA perspectives March 2016.
2. **Maddipati, R** and Katz, J.P: KLF4 Initiates Acinar Cell Reprogramming and Is Essential for the Early Stages of Pancreatic Carcinogenesis. Cancer cell 29(3): 247-8, Mar 2016.

Books:

1. **Maddipati, R.,** Stanger, B.Z.: Liver and Pancreas: Mechanisms of Development and Size Control. Stem Cells: From Basic Research to Therapy. Calegari, F., and Waskow, C. P (eds.). Science publishers, 1, 2014.