

Selvaraj Muthusamy MBBS, PhD



Assistant Professor of Pathology
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Department of Pathology
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Education

Postgraduate Medical Training

Resident in Anatomic and Clinical Pathology - Saint Louis University School of Medicine
Fellow in Molecular Genetic Pathology - University of Utah/ ARUP laboratories
Fellow in Renal Pathology - University of Washington - Seattle

Medical Education

Coimbatore Medical College, Coimbatore, India

Graduate Education

Doctor of Philosophy
Department of Biology and Biochemistry
University of Houston

Licenses & Certifications

Medical Licenses

Missouri, Utah, Washington, and Virginia

Board Certifications

American Board of Pathology - Molecular Genetic Pathology
American Board of Pathology - Anatomic and Clinical Pathology

Professional Organizations

Association of Molecular Pathology (AMP)

Digital Pathology Association (DPA)

United States and Canadian Academy of Pathology (USCAP)

American Society for Clinical Pathology (ASCP)

American Society of Nephrology (ASN)

Renal Pathology Society (RPS)

Publications

Peer Reviewed Publications

Muthusamy, S., Andersson, S., Kim, H.J., Butler, R., Waage, L., Bergerheim, U. & Gustafsson, J.A. (2011), "Estrogen receptor beta and 17 beta-hydroxysteroid dehydrogenase type 6, a growth regulatory pathway that is lost in prostate cancer", Proceedings of the National Academy of Sciences of the United States of America, vol. 108, no. 50, pp. 20090-20094.

Lidberg KA, **Muthusamy S**, Adil M, Mahadeo A, Yang J, Patel RS, Wang L, Bammler TK, Reichel J, Yeung CK, Himmelfarb J, Kelly EJ, Akilesh S. Serum Protein Exposure Activates a Core Regulatory Program Driving Human Proximal Tubule Injury. J Am Soc Nephrol. 2022 May;33(5):949-965. doi: 10.1681/ASN.2021060751. Epub 2022 Feb 23. PMID: 35197326; PMCID: PMC9063895.

Gupta S, Folpe AL, Torres-Mora J, Reuter VE, Zuckerman JE, Falk N, Stanton ML, **Muthusamy S**, Smith SC, Sharma V, Sethi S, Herrera-Hernandez L, Jimenez RE, Cheville JC. Immunohistochemical expression of renin and GATA3 help distinguish juxtaglomerular cell tumors from renal glomus tumors. Hum Pathol. 2022 Oct;128:110-123. doi: 10.1016/j.humpath.2022.07.016. Epub 2022 Aug 1. PMID: 35926808.

Haug S, **Muthusamy S**, Li Y, Stewart G, Li X, Treppner M, Köttgen A, Akilesh S. Multi-omic analysis of human kidney tissue identified medulla-specific gene expression patterns. Kidney Int. 2024 Feb;105(2):293-311. doi: 10.1016/j.kint.2023.10.024; PMID: 37995909; PMCID: PMC10843743.

Muthusamy, S., & Smith, S. C. Contemporary Diagnostic Reporting for Prostatic Adenocarcinoma: Morphologic Aspects, Molecular Correlates, and Management Perspectives. Advances in Anatomic Pathology, 31(3), 188-201. doi: 10.1097/PAP.0000000000000444; PMID: 38525660.