

# Selvaraj Muthusamy MBBS, PhD



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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.