

Rajeswari Jayakumar, MD



Director of Flow Cytometry
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Education

2002 - 2008 MBBS - Chengalpattu Medical College, India

2009 - 2012 MD Laboratory Medicine - All India Institute of Medical Sciences, India

2015 - 2019 AP/CP Residency - SUNY Downstate Medical Center, NY

2019 - 2020 Hematopathology Fellowship - John Hopkins University School of Medicine

Licenses & Certifications

2020 American Board of Pathology - Hematopathology

2019 American Board of Pathology - Anatomic and Clinical pathology

Awards

2026 Virginia Top Docs Pathology, Virginia Business Magazine, Richmond, Virginia

2026 American Society for Clinical Pathology Best poster award in Case Studies category

2025 AP/CP Saul Kay Teaching Award, VCU Pathology Department

2022 American Society for Clinical Pathology - 40 Under Forty

Editorial Advisory Boards

Diagnostic Pathology: Section Editor for Hematopathology

Professional Service (outside)

2023 - present Education committee, International Clinical Cytometry Society

2024 - present Video Subcommittee, International Clinical Cytometry Society

2023 - present Outreach Committee, International Clinical Cytometry Society

Recent Invited Presentations

2026 Acute Myeloid Leukemia – The WHO5 and ICC perspectives, Department of Pathology, SUNY Downstate Medical Center, NY

2025 Flow cytometry in Acute leukemias, Department of Pathology, The University of Tennessee Health Sciences Center

2024 Flow cytometry in acute myeloid leukemia with recurrent genetic abnormalities, Department of pathology and Oncology, Veteran Affairs Hospital, Richmond, VA

2024 Flow cytometry in Acute leukemias, Department of pathology, SUNY Downstate Medical Center, NY

2023 Benign lymphadenopathies, Department of pathology, SUNY Downstate Medical Center, NY

2023 Immunophenotyping in Acute Myeloid Leukemia, Blood Academy, Virtual

2023 Flow cytometry board review, Ace My Path, Virtual

2023 Review of Anemias, Ace My Path

2021 Flow Cytometry Course for hematopathologists, Ace My Path (Available for free in YouTube)

2021 Flow Cytometry in the Diagnosis of Acute Leukemia, Department of pathology, SUNY Downstate Medical Center, NY

Selected Publications

Peer Reviewed Papers

Sirotnikov S, **Jayakumar R**, Park S, Cheng J. Histiocytic Sarcoma Arising from Pediatric Rosai Dorfman Disease: Two Novel Cases and Literature Review *Pediatr Dev Pathol*. 2026 Jan 30;10935266251413973.

Wirk B, **Jayakumar R**, Lim J. Phosphatidylinositol 3-Kinase Inhibition and Allogeneic Stem Cell Transplantation Can Overcome Chemotherapy Resistance in Refractory Burkitt Lymphoma. *J Hematol*. 2025 Mar;14(2):94-99. doi: 10.14740/jh2043. Epub 2025 Mar 18.

Anderson, M, **Jayakumar, R** (2024). Recent Advances in the Molecular Pathogenesis and Diagnosis of Chronic Myelomonocytic Leukemia. *Advances in Molecular Pathology*. 7. 10.1016/j.yamp.2024.07.001.

Mukhopadhyay T, Shekhar S, Chopra P, Patil P, **Jayakumar R**, Sehgal T, Meena S, Ningombam A, Shah V, Kumar P, Datta S, Mathur P, Subramanian A, Sinha S, Mukhopadhyay A. Medical postgraduate (MD) program in Laboratory Medicine in India: The Past, Present and Future. *Journal of Family Medicine and Primary Care: May 2022 - Volume 11 - Issue 5 - p 1633-1641* doi: 10.4103/jfmpc.jfmpc_1334_21.

Jayakumar R. Common Targeted Therapies in Acute Leukemia Requiring Modification of Practice in Hematopathology. *J 21st century pathology*; 2021,1(1).

Lanjewar S, **Jayakumar R**, Axiotis CA. Loss of Placental P-Glycoprotein May Be a Common Pathophysiologic Pathway for First Trimester Spontaneous Miscarriages. *Pediatric and Developmental Pathology* 2019, 22(5), 456–460.

Pereda M, Issac J, Zhang Y, **Jayakumar R**, Gupta, R, Miller S. Massive Splenic Infarction in a Child with Sickle Cell Disease on Chronic Transfusion Therapy- Case Report and Review of Literature, *J Pediatr Hematol Oncol* 2019;41:e79–e82.

Jayakumar R, Lanjewar S, Axiotis CA. Loss of PTEN and Increased pAKT Expression Distinguishes Aggressive Low Grade Neuroendocrine Tumors. *Ann Clin Lab Sci*. 2018 Sep;48(5):565-572.

Jayakumar R, Cassai N, Laskar D , Khurram N, LaDoulis C, Wieczorek R, Pincus MR. Can Whole Slide Imaging Replace Conventional Microscopic Evaluation? A Comparative Study over a Spectrum of Cases. DOI: 10.24983/scitemed.jacp.2018.00060.

Jayakumar R, Basu PP, Huang T, Axiotis CA. Post Irradiation Leiomyosarcoma of Rectum Presenting as a Polyp: A Case Report and Review of the Literature. *Int J Surg Pathol*. 2016 Apr; 24(2):163-169.

Book Chapters and Monographs

Jayakumar R., Shirai C and Deeb G. What Are CD11b And CD11c and What Are Their Utility in The Clinical Flow Cytometry Assessment for Hematologic Neoplasms? Ask an expert column in ICCS. Mar 2024.

Jayakumar R., Wake L. Large B Cell Lymphoma with *IRF4* rearrangement. Precision Molecular Pathology of Aggressive B-Cell Lymphomas. Feb 2024.

Jayakumar R. T-cell lymphoma. Ace The Boards Neoplastic Hematopathology. Second Edition. March 2024.

Jayakumar R. Multiple Chapters in Ace My Path Flow Cytometry. First Edition. Mar 2022.

Editor of the book, Ace My Path Flow Cytometry, Published March 2022.

Editor of the book, Ace My Path Flow Cytometry Course Cases, published Oct 2021.

Media

March 2022 Path pod episode