

Rajeswari Jayakumar, MD



Assistant Professor of Pathology
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Education

MBBS - Chengalpattu Medical College, India

MD Laboratory Medicine - ALL India Institute of Medical Sciences, India

AP/CP Residency - SUNY Downstate Medical Center, N.Y.

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

September 2022 ASCP 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

- 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, N.Y.
- 2023 Benign lymphadenopathies, Department of pathology, SUNY Downstate Medical Center, N.Y.
- 2023 Immunophenotyping in Acute Myeloid Leukemia, Blood Academy
- 2023 Flow cytometry board review, Ace My Path
- 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, N.Y.
- 2019 Bunch of Uncommons, Department of Hematopathology, Roswell Park Comprehensive Cancer Center, N.Y.

Selected Publications

Peer Reviewed Papers

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. Basic Principles of Flow Cytometry, Gating Strategy and Flow Cytometry Interpretation. *Ace My Path Flow Cytometry*. First Edition. Mar 2022.

Jayakumar R. Myeloid maturation. *Ace My Path Flow Cytometry*. First Edition. Mar 2022.

Jayakumar R. Myeloid Neoplasm. Ace My Path Flow Cytometry. First Edition. Mar 2022.

Jayakumar R. T-cell maturation. Ace My Path Flow Cytometry. First Edition. Mar 2022.

Jayakumar R. T-cell Neoplasm. Ace My Path Flow Cytometry. First Edition. Mar 2022.

Jayakumar R. Acute Leukemias of Ambiguous Lineage. 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

Posters/Abstracts

Talibi S, Gonzalez AF, **Jayakumar R.** Clinicopathologic Spectrum of *U2AF1* Mutations in Myeloid Neoplasms- a Single Institute Experience. CAP 2022.

Creel SJ, Karuppiyah A, **Jayakumar R.,** Jones LS. Protein, protein everywhere and not a lot of clot. SCA 2022.

Biscardi A, Schuman T, **Jayakumar R.,** Reiter E. Solitary Extramedullary Plasmacytoma of the Paranasal Sinuses and Nasopharynx: A Case Series. Virginia Society of Otolaryngology- Head Neck Surgery (VSO-HNS) 2022.

Hall M, Khattar P, **Jayakumar R.** CD123 Immunostaining in Splenic Littoral Cell Angiomas, USCAP 2022.

Talibi S, Gonzalez AF, **Jayakumar R.** A Clinicopathologic Study of *JAK2* and *ASXL1* Mutated Myeloproliferative Neoplasms, USCAP 2022.

Liaquat S, Lai G, Patel S, **Jayakumar R.** Rare case of CD3⁻ T cell Larger Granular Lymphocytic Leukemia; a Diagnostic Pitfall. CAP 2021.