

## CURRICULUM VITAE

**Sinchita Roy-Chowdhuri, M.D., Ph.D.**

**Address:** The University of Texas M.D. Anderson Cancer Center  
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**Current Position:** Professor  
Department of Anatomical Pathology, The University of Texas  
M.D. Anderson Cancer Center

**Profile summary:** Board certified Cytopathologist and Molecular Genetic  
Pathologist, with a research focus on the application of molecular  
diagnostics in cytology samples

### ACADEMIC APPOINTMENTS

9 / 2023 - current Professor, The University of Texas M.D. Anderson Cancer Center,  
Department of Anatomical Pathology

9 / 2023 - current Professor, The University of Texas M.D. Anderson Cancer Center,  
Department of Translational Molecular Pathology (*Joint Appointment*)

4 / 2019 - current Associate Professor, The University of Texas M.D. Anderson Cancer  
Center, Department of Translational Molecular Pathology (*Joint  
Appointment*)

9 / 2018 - current Associate Professor, The University of Texas M.D. Anderson Cancer  
Center, Department of Anatomical Pathology

8 / 2012 – 8/2018      Assistant Professor, The University of Texas M.D. Anderson Cancer Center, Department of Anatomical Pathology

8 / 2012 - current      Adjunct Faculty, The University of Texas School of Health Professions, Cytotechnology School

#### **ADMINISTRATIVE POSITIONS**

10 / 2019 - current      Solid Tumor Director, Genomic Test Development Laboratory (GTDL)

8 / 2019 - current      Director, Solid Tumors, Molecular Diagnostic Laboratory, The University of Texas M.D. Anderson Cancer Center

5 / 2015 - current      Director, Molecular Cytopathology, The University of Texas M.D. Anderson Cancer Center

#### **BOARD CERTIFICATION**

- Molecular Genetic Pathology, American Board of Pathology (10/2013-present)
- Cytopathology, American Board of Pathology (10/2011-present)
- Anatomic Pathology, American Board of Pathology (08/2010-present)

#### **EDUCATION**

Ph.D., Biological Sciences (07/2005), University of Illinois at Chicago, Illinois

M.D., (Bachelor of Medicine and Bachelor of Surgery) (09/1998) University of Calcutta, India

#### **POST GRADUATE TRAINING**

Fellowship, Molecular Genetics Pathology (July 2011-June 2012)  
Memorial Sloan-Kettering Cancer Center, New York, NY

Fellowship, Cytopathology (July 2010-June 2011)  
National Cancer Institute, NIH, Bethesda, MD

Residency, Anatomic Pathology (July 2007-June 2010)  
National Cancer Institute, NIH, Bethesda, MD

Postdoctoral Research (September 2005- June 2007)

National Cancer Institute, NIH, Bethesda, MD

#### **MEDICAL LICENSURE**

- Texas (Unrestricted: active)
- New York (Unrestricted: inactive)
- Virginia (Unrestricted: inactive)
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#### **PROFESSIONAL SOCIETY MEMBERSHIP**

- United States and Canadian Academy of Pathology
- American Society of Cytopathology
- Association for Molecular Pathology
- Pulmonary Pathology Society
- College of American Pathologists
- International Association for the Study of Lung Cancer
- Houston Society of Clinical Pathologists

#### **EDITORIAL/REVIEWER**

- Associate Editor, Cancer Cytopathology (January 2019-present)
- Associate Editor, Archives of Pathology & Laboratory Medicine, Molecular Cytopathology Section (November 2015-present)
- Editorial Board Member, Cytopathology (March 2021-present)
- Editorial Board Member, Journal of Molecular Pathology (August 2020-present)
- Editorial Board Member, Cancer Cytopathology (December 2016-December 2018)
- Editorial Board Member, Social Media Section Editor, Journal of American Society of Cytopathology (May 2017- December 2018)
- Editorial Board Member, Archives of Pathology & Laboratory Medicine, Cytopathology Section Editor (August 2015-November 2015)
- Ad hoc reviewer, Diagnostic Cytopathology
- Ad hoc reviewer, Journal of Molecular Diagnostics

## NATIONAL COMMITTEES

- American Society of Cytopathology (ASC), **Executive Board**, Member (November 2021-present)
- College of American Pathologists (CAP), Digital Content Committee, Member (January 2024-present)
- American Society of Cytopathology (ASC), Research and Current Concept Committee, **Vice-Chair** (November 2020-2024)
- Association for Molecular Pathology (AMP), Solid Tumor Subdivision Program Committee Representative (November 2020-2022)
- United States and Canadian Academy of Pathology, Subcommittee for Unique Live Course Offerings (SULCO), Member, 2020-present
- United States and Canadian Academy of Pathology, Membership Committee, Member (July 2018-2020)
- Pulmonary Pathology Society (PPS), Executive Council Member (June 2017-present)
- College of American Pathologists (CAP), Cytopathology Committee, Member (January 2017-2022)
- American Society of Cytopathology (ASC) and Association for Molecular Pathology (AMP), Bidirectional Liaison (January 2017-present)
- American Society of Cytopathology (ASC), Product Innovation Committee, **Chair** (November 2017-November 2019)
- American Society of Cytopathology (ASC), Social Media Committee, Member (November 2016-2018)
- Texas Society of Pathologists (TSP), Education Council Member (February 2016-2019)
- Pulmonary Pathology Society (PPS), Digital Content Committee, **Chair** (March 2016-June 2019) and Member (July 2019-present)
- Pulmonary Pathology Society (PPS), Program Committee, Member (March 2016-2018)

- American Society of Clinical Pathology (ASCP), Annual Meeting Scientific Program Committee, Molecular Pathology Sub-committee Member (January 2016-present)
- American Society of Cytopathology (ASC), Website Committee, Member (November 2015-November 2017)
- Pulmonary Pathology Society (PPS), Membership Committee, Member (August 2015-2018)

#### **NATIONAL TASKFORCE COMMITTEES**

- American Society of Cytopathology (ASC) Taskforce for “Optimizing Cytology and Small Biopsy Specimen Processing for Ancillary Studies”, **Chair** (November 2023-present)
- College of American Pathologists (CAP)/ International Association for the Study of Lung Cancer (IASLC)/ Association for Molecular Pathology (AMP) Guideline for “Molecular Testing Guideline for Selection of Lung Cancer Patients for Tyrosine Kinase Inhibitors”, **Chair** (October 2021-present)
- American Society of Clinical Pathology (ASCP) Steering Committee on NSCLC Biomarker Testing (October 2021- present)
- Association for Molecular Pathology (AMP) representative to Association of Community Cancer Centers for “Operational Pathways in Lung Cancer” Evolving Biomarkers project, Advisory Committee Member (July 2021-present)
- College of American Pathologists (CAP) Guideline for “Appropriate Collection and Handling of Thoracic Specimens for Ancillary Studies”, **Chair** (July 2016-May 2020)
- College of American Pathologists (CAP) Guideline for “MMR and MSI Testing in Patients being Considered for Checkpoint Inhibitor Therapy”, Advisory Panel Member (May 2018-present)
- College of American Pathologists (CAP) Guideline for “Principles of Analytic Validation of Immunohistochemical Assays”, Expert Panel Member (September 2018-present)

- Papanicolaou Society of Cytopathology (PSC), Recommendations for Ancillary Testing for Pulmonary Cytology Specimens, Committee Member (February 2016)
- American Society of Cytopathology and Papanicolaou Society of Cytopathology (ASC/PSC) Joint Task Force for the Review of the Current-Future Role of Cytologic and Small Biopsy Specimen, Member (April 2015)
- Association for Molecular Pathology (AMP) NSCLC Content Committee for “Advancing Patient Care in NSCLC: Breaking Down Barriers”, Member (April 2018)

#### **INSTITUTIONAL COMMITTEES/LEADERSHIP POSITIONS**

- Division of Pathology and Laboratory Medicine, Strategic Industry Ventures (SIV) Advisory Committee, Member (December 2020-present)
- Division of Pathology and Laboratory Medicine, Strategic Operational Priorities Committee, Member (September 2020-present)
- Molecular Testing Evaluation Committee, Member (January 2020-present)
- ECOG-ACRIN Central Biorepository and Pathology Facility (CBPF), Co-Investigator (November 2019-present)
- Clinical Genomics Council, **Chair** (November 2019-present)
- Professional Education Committee, formerly CME Advisory Committee, Member (July 2018-2023)
- Focus on Junior Faculty Committee, Member (October 2016-November 2017)
- Cytopathology Fellowship Clinical Competency Committee, Member (2016-present)
- Molecular Genetic Pathology Fellowship Program Selection Committee, Member (2015-present)
- Cytopathology Fellowship Program Evaluation Committee, Member (2014-present)
- Cytopathology Fellowship Program Selection Committee, Member (2013-present)
- The Clinical Genomics Biorepository (TCGB) and Cytology Tissue Collection and Processing Working Group, Member (November 2013)

## GRANTS

- NCI-MATCH EAY131, NCI-MATCH Clinical Trial (Leidos Biomedical Research, Inc), Principal Investigator, 2020-2024
- NCI-Pediatric MATCH, NCI-MATCH Clinical Trial (Leidos Biomedical Research, Inc), Principal Investigator, 2020-2024
- ECOG-ACRIN Biorepositories to Support NCTN, Co-Principal Investigator, 2020-2026
- The University of Texas MD Anderson Cancer Center SPORE in Melanoma, Co-Principal Investigator, 2019-2024
- Mentored Trainee Research Award, 2022: "OptiMap: Precision Tumor Mapping Algorithm for Solid Tumor Molecular Testing" 2022-2023
- Mentored Trainee Research Award, 2019: "Evaluating NICD1 Immunostaining in Cytology Specimens to Identify Adenoid Cystic Carcinoma Patients with Activating NOTCH1 Mutations" 2019-2020
- Mentored Trainee Research Award, 2018: "Evaluating MSI/MMR Status using Cytology Specimens to Determine Eligibility for Immunotherapy" 2018-2019
- Mentored Trainee Research Award, 2018: "Evaluating RNA from Cytology Supernatants for Clinically Relevant RNA Fusion Assays" 2018-2019
- US Medical Research Acq Activity, "Discover Novel Therapeutic Strategies of Peritoneal Carcinomatosis", Co-Investigator, 2017-2020
- Mentored Trainee Research Award, 2017: "Evaluating PD-L1 immunoperoxidase staining on cell-transferred cytology cell blocks as a surrogate for conventional formalin-fixed paraffin embedded tissue" 2017-2018
- Principal Investigator, "Mutational Profiling of Centrifuged Supernatant Fluid from Fine Needle Aspiration of Lung Carcinomas", MDACC Department of Pathology Junior Faculty Grant 2017-2018
- Principal Investigator, Mutation Testing in Cytology Specimens: "Molecular Adequacy and Minimal Cellularity Requirement with Comparison to Small Needle Biopsies", MDACC Department of Pathology Junior Faculty Grant 2014-2015

## **HONORS AND AWARDS**

- Faculty Excellence Award, Community Outreach, August 2023
- Multi-Year Appointment Award, September 2022-August 2025
- 2018 PowerList *The Pathologist* magazine
- Shirley Stein Scientific Endowment Research Award, 2017
- Pulmonary Pathology Society President's Innovation Award, 2017

## **TEACHING EXPERIENCE**

Adjunct faculty, Cytotechnology school, UT School of Health Professions, Houston, TX (August 2012-present)

- Responsible for teaching the ASC Molecular biology course to Cytotechnology students

Clinical trainee program, UT MD Anderson Cancer Center, Houston, TX (August 2012-present)

- Responsible for teaching and mentoring clinical fellows in cytopathology (6 ACGME cytopathology fellows) and molecular genetic pathology (3 ACGME molecular fellows)

Mentor, UT School of Health Professions, Houston, TX

- Graduate students in Molecular Genetics on their research thesis

Clinical Instructor, National Cancer Institute, NIH, Bethesda, MD (July 2010-June 2011)

- Responsible for resident teaching and weekly conference in Cytopathology

Mentor, University of Illinois at Chicago, Chicago, IL (May 2003-July 2005)

- Supervised undergraduate research for a senior year project

Instructor, University of Illinois at Chicago, Chicago, IL (August 2000-April 2002)

- Taught and supervised undergraduate genetics class and laboratory

## **INVITED PRESENTATIONS**

- Invited Speaker, "The WHO Reporting System for Lung Cytopathology: An Overview and Practical Applications", 10th National Congress of Cytopathology, Istanbul, Turkey, April 2024
- Invited Speaker, "Biomarker Testing in Cytological Specimens: Considerations for Specimen Handling and Assay Selection", 10th National Congress of Cytopathology, Istanbul, Turkey, April 2024

- Invited Speaker, Papanicolaou Society for Cytopathology Companion Society Meeting, "Cytologic Tissue Samples of Soft Tissue Lesions: Diagnosis, Classification and Ancillary Studies," United States and Canadian Academy of Pathology Annual Meeting, Baltimore, MD, March 2024
- Faculty, "A Primer in Precision Pathology: Digital and Computational Pathology, Omics and Spatial Profiling," United States and Canadian Academy of Pathology Annual Meeting, Baltimore, MD, March 2024
- Grand Rounds Speaker, "The Future of Minimally Invasive Diagnostics by Integrating Cytology and Molecular," The University of New Mexico, Albuquerque, NM, February 2024
- Faculty, "Respiratory Tract, EBUS, Molecular", The Methodist Hospital Cytopathology and Small Biopsy Updates, Houston TX, February 2024
- Invited Speaker, "Mutation and Fusion analysis by NGS in Cytology samples of lung Carcinoma", 11th Annual Conference of the Molecular Pathology Association of India (MPAI) "MPAICON 2024, New Delhi, India
- Faculty, "Biomarker Testing in Non-Small Cell Lung Cancer: The Past, The Present, and The Future", XII Molecular Cytopathology Meeting, Naples, Italy, December 2023
- Moderator and co-Director, XII Molecular Cytopathology Meeting, Naples, Italy, December 2023
- Moderator, Head and Neck Cytology, The 2023 SIAPEC and ASC Joint Cytopathology Workshop, Palermo, Italy, December 2023
- Moderator, Pulmonary Cytology, The 2023 SIAPEC and ASC Joint Cytopathology Workshop, Palermo, Italy, December 2023
- Invited Speaker, "Cutting Edge Methodologies in Molecular Diagnostic Testing in Newly Diagnosed Lung Cancer", International Association for the Study of Lung Cancer North America Conference, Chicago, IL, December 2023
- Faculty, "The WHO Reporting System for Lung Cytopathology", American Society of Cytopathology Annual Meeting, Austin, TX, November 2023
- Faculty, "Next Generation Immunohistochemistry in Cytology Practice: Soft Tissue and Bone", American Society of Cytopathology Annual Meeting, Austin, TX, November 2023
- Invited Speaker, "Molecular Cytopathology: Naples on Tour: Integrating Molecular Diagnostics into a Comprehensive Cytopathology Diagnosis", American Society of Cytopathology Annual Meeting, Austin, TX, November 2023
- Faculty, "Enhancing Results of Small Biopsy and Cytology Thoracic Specimens: Case-based Approach for Improving Outcomes based on CAP Guidelines and Practice", American Society of Cytopathology Annual Meeting, Austin, TX, November 2023

- Faculty, “Lung Cancer: Exploring the Multidisciplinary Team Approach by Interventional Pulmonology, Molecular Cytopathology and Thoracic Cytopathology”, American Society of Cytopathology Annual Meeting, Austin, TX, November 2023
- Faculty, “The Application of Cytopathology in Translational Research: Innovative Techniques and Technologies “, American Society of Cytopathology Annual Meeting, Austin, TX, November 2023
- Grand Rounds Speaker, “The Art and Science of Doing More With Less: Unleashing the Power of Molecular Cytopathology”, Fox Chase Cancer Center, Philadelphia, PA, October 2023
- Faculty Speaker, “Next Generation Sequencing for Personalized Lung Cancer Treatment”, Indonesia Pathology ECHO Session webinar, October 2023
- Invited Speaker, “Biomarker Testing in Small Specimens: Small Biopsy versus Fine Needle Aspiration”, Cancer Biomarker Conference VI, Chicago IL, September 2023
- Faculty, “Pulmonary Pathology”, Osler Board Review, August 2023
- Faculty, “Urine Cytology”, Osler Board Review, August 2023
- Invited Speaker, “Molecular Pathology in NSCLC,” Pulmonary Pathology Web series, August 2023
- Invited Speaker, “The Future of Minimally Invasive Diagnostics by Integrating Cytology and Molecular,” International Academy of Cytology Webinar, June 2023
- Invited Speaker, “The Future of Minimally Invasive Diagnostics by Integrating Cytology and Molecular,” University of Texas Health Science Center, Houston, TX, June 2023
- Invited Speaker, “The Future of Minimally Invasive Diagnostics by Integrating Cytology and Molecular,” Weill Cornell Medical College Grand Rounds, New York, NY, April 2023
- Invited Speaker, “Molecular Cytopathology”, 29th Annual Seminar in Pittsburgh, Pittsburgh, PA, April 2023
- Invited Speaker, " The WHO System for Reporting Lung Cytopathology," United States and Canadian Academy of Pathology Annual Meeting, New Orleans, LA, March 2023
- Invited Speaker, “The Future of Minimally Invasive Diagnostics by Integrating Cytology and Molecular,” Brigham and Women’s Hospital Pathology Trainees Choice Grand Rounds, Boston, MA, January 2023
- Invited Speaker, “Evolution of Molecular Pathology in Non-Small Cell Lung Cancer”, XI Molecular Cytopathology Meeting," Naples, Italy, December 2022
- Invited Speaker, State of the Art Symposium, “Molecular Cytopathology: Where are we Headed”, Joint Meeting International Congress of Cytology and American Society of Cytopathology, Baltimore, MD, November 2022

- Faculty, Case Based Slide Seminar, " Practical Application of the 2022 WHO System for Reporting Lung Cytopathology," American Society of Cytopathology Annual Meeting, Baltimore, MD, November 2022
- Faculty, "Enhancing Results of Small Biopsy and Cytology Thoracic Specimens", Joint Meeting International Congress of Cytology and American Society of Cytopathology, Baltimore, MD, November 2022
- Faculty, "How to Manage Your Time by Not Doing Everything," American Society of Cytopathology Annual Meeting, Baltimore, MD, November 2022
- Faculty, "Updates on the Use of Cytology and Small Biopsy Specimens for Lung Cancer Diagnosis and Biomarker Testing", College of American Pathologists Annual Meeting, New Orleans, LA, October 2022
- Faculty, "Challenges in Diagnosis and Biomarker Testing of Lung Cancer Using Cytology and Small Biopsy Specimens", College of American Pathologists Annual Meeting, New Orleans, LA, October 2022
- Invited speaker, National Lung Cancer Roundtable Biomarker Summit, "Metrics for Success on Timing of Ordering, Quantity, and Turnaround Time", Chicago, IL, October 2022
- Faculty "Lung Cytopathology-Ancillary Testing", European Congress of Pathology, Basel, Switzerland, September 2022
- Invited speaker, "Fine Needle Aspiration versus Small Biopsy Samples: Adequacy of Minimally Invasive Sampling Techniques for Diagnostic and Predictive Biomarker Testing," Houston Society of Clinical Pathologists, September 2022 (Houston, TX)
- Invited speaker, "Optimizing the cytology sample for molecular analysis - is cytology really better?" 33rd Brazilian Congress of Pathology and 26th Brazilian Congress of Cytopathology, August 2022, (Foz do Iguaçu/ Paraná, Brazil)
- Invited speaker, "Diagnostic approach to pulmonary lesions in cytology- Why FNA?", 33rd Brazilian Congress of Pathology and 26th Brazilian Congress of Cytopathology, August 2022, (Foz do Iguaçu/ Paraná, Brazil)
- Faculty, "Fine Needle Aspiration versus Small Biopsy Samples: Adequacy of Minimally Invasive Sampling Techniques for Diagnostic and Predictive Biomarker Testing," Advanced Cytopathology Education (web-based virtual meeting), April 2022
- Faculty, USCAP Short Course, "Non-small Cell Lung Carcinoma Biomarker Testing: What Every Practicing Pathologist Needs to Know Now," United States and Canadian Academy of Pathology Annual Meeting March 2022 (Los Angeles, CA)
- Panelist, "Limited Diagnostic Material: How to Triage Appropriately," ADASP Annual Meeting at USCAP 2022, March 2022 (Los Angeles, CA)

- Invited speaker, "Basic Molecular Testing Methodologies and Choosing the Correct Molecular Assay," United States and Canadian Academy of Pathology Annual Meeting, March 2022 (Los Angeles, CA)
- Faculty, "RNA Fusion Assays Using Next-Generation Sequencing, X Molecular Cytopathology Meeting," December 2021 (Naples, Italy)
- Faculty, "Fine Needle Aspiration versus Small Biopsy Samples: Adequacy of Minimally Invasive Sampling Techniques for Diagnostic and Predictive Biomarker Testing", ASCP Africa Calls Webinar, November 2021
- Invited speaker, "Diagnostic Cytology Seminar", American Society of Cytopathology Annual Meeting, November 2021 (Las Vegas, NV)
- Faculty, "How to Manage Your Time by Not Doing Everything", American Society of Cytopathology Annual Meeting, November 2021 (Las Vegas, NV)
- Moderator, "Principles of Analytic Validation of Immunohistochemical Assays: Guideline Update from the College of American Pathologists", American Society of Cytopathology Annual Meeting, November 2021 (Las Vegas, NV)
- Faculty, "Fine Needle Aspiration versus Small Biopsy Samples: Adequacy of Minimally Invasive Sampling Techniques for Diagnostic and Predictive Biomarker Testing", American Society for Clinical Pathology Annual Meeting, October 2021 (Boston, MA)
- Invited speaker, "Perspective on Molecular Testing in Solid Tumors: Can it Replace Histopathology Diagnosis?", KAPCON 2021, Karnataka Chapter Indian Association of Pathologists and Microbiologists Annual Meeting, October 2021 (web-based virtual meeting)
- Faculty, "Small but Mighty! From Diagnosis to Biomarker Testing of Thoracic Small Specimens", College of American Pathologists Annual Meeting, September 2021 (Chicago, IL)
- Faculty, "Best Practices in Advanced NSCLC Specimen Management", American Society for Clinical Pathology Webinar, June 2021
- Faculty, "Small Specimens Great Outcomes: New CAP Guideline on Collection and Handling of Thoracic Small Biopsy and Cytology Specimens for Ancillary Studies", Ohio Society of Pathologists, Spring Meeting (Web-based virtual meeting due to COVID-19), May 2021
- Faculty, "The College of American Pathologists Guideline, Collection and Handling of Thoracic Small Biopsy and Cytology Specimens for Ancillary Studies: Impact on the Practice of Cytopathology", American Society of Cytopathology e-conference webinar, May 2021

- Invited speaker, “ERBB2 (HER2) in Colorectal Cancer, Recent findings, Laboratory considerations, and Clinical Implications” Association for Molecular Pathology webinar series on Emerging Targets, April 21
- Invited speaker, “Biomarker Testing for Lung Cancer Using Cytology Specimens”, Turkish Society of Cytology 9th National Cytopathology Congress (Web-based virtual meeting due to COVID-19), March 2021
- Faculty USCAP Short Course, “Non-small Cell Lung Carcinoma Biomarker Testing: What Every Practicing Pathologist Needs to Know Now”, United States and Canadian Academy of Pathology Annual Meeting, March 2021 (web-based virtual meeting)
- Invited speaker, “Predictive Molecular Pathology: The MD Anderson Perspectives”, VIII Molecular Cytopathology Meeting, December 2020 (web-based virtual meeting)
- Moderator and Co-organizer, IX Molecular Cytopathology Meeting, December 2020 (web-based virtual meeting)
- Grand Rounds speaker, “Current and Future Applications for Liquid Biopsy using FNA Supernatants”, MD Anderson Department of Pathology, November 2020
- Faculty, “Tissue Stewardship: Maximizing the Information That Can Be Provided by Small Specimens: Best Practices for Tissue Allocation”, Association for Molecular Pathology Annual Meeting, November 2020 (web-based virtual meeting)
- Faculty, “From Pattern Recognition To Biomarkers Vis-à-vis To Tumor Diagnosis: The Many Peas In A Pod, American Society of Cytopathology Annual Meeting, November 2020 (web-based virtual meeting)
- Faculty, “Pathologists perspective on lung cancer genomics”, The World Congress of Bronchology and Interventional Pulmonology, November 2020 (web-based virtual meeting)
- Faculty, “Small Specimens Great Outcomes: New CAP Guideline on Collection and Handling of Thoracic Small Biopsy and Cytology Specimens for Ancillary Studies, College of American Pathologists Annual Meeting, October 2020 (web-based virtual meeting)
- Invited speaker, “The Role of Molecular Diagnostics in Clinical Practice”, Rivaara Laboratories, Webinar Series, October 2020 (web-based)
- Invited speaker, “Molecular Pathology in Solid Tumors: Basic Principles and How it Affects My Practice”, KAPCON 2020, Karnataka Chapter Indian Association of Pathologists and Microbiologists Annual Meeting, October 2020 (web-based virtual meeting)
- Invited speaker, ““Small but Powerful: The Promising Role of Small Specimens for Biomarker Testing”, Astrazeneca Pathology Grand Rounds, October 2020 (web-based)

- Invited panelist, “Thoracic Oncology Summit: Bridging the Gaps Limiting Molecular Testing and Treatments in Broad Clinical Practice”, August 2020 (web-based virtual meeting)
- Invited speaker, “Cytology and Management of Small Biopsies in Lung Cancer”, 8th Annual Houston Methodist Cancer Symposium, August 2020 (web-based virtual meeting)
- Faculty CAP Virtual Lecture Series, “You Want Me to Send What, Where? Practical Tips for Molecular Testing in Clinical Practice”, May 2020 (web-based virtual meeting)
- Grand Rounds Speaker, “Small but Powerful: The Promising Role of Small Specimens for Biomarker Testing”, The University of North Carolina, April 2020 (Virtual Grand Rounds)
- Invited speaker, “Molecular Cytopathology in an Era of Precision Medicine: Doing More with Less”, American Society for Cytotechnology, April 2020 (web-based)
- Faculty USCAP Short Course, “Non-small Cell Lung Carcinoma Biomarker Testing: What Every Practicing Pathologist Needs to Know Now”, United States and Canadian Academy of Pathology Annual Meeting, March 2020 (Los Angeles, CA)
- Invited speaker, “Centrifuged Supernatant from FNA as a source for Clinical Next Generation Sequencing”, VIII Molecular Cytopathology Meeting, December 2019 (Napoli, Italy)
- Invited speaker, “Predictive Molecular Pathology: The MD Anderson Perspectives”, VIII Molecular Cytopathology Meeting, December 2019 (Napoli, Italy)
- Faculty, “Molecular Diagnostic Cytopathology: A Practical Primer for the Practicing Pathologist”, American Society of Cytopathology Annual Meeting, November 2019 (Salt Lake City, UT)
- Faculty, “From Pattern Recognition To Biomarkers Vis-à-vis To Tumor Diagnosis: The Many Peas In A Pod”, American Society of Cytopathology Annual Meeting, November 2019 (Salt Lake City, UT)
- Faculty, “Molecular Diagnostics of Lung Cancer and Small Tissue Triage”, Seminar in Anatomic Pathology, Geisinger Medical Center, October 2019 (Danville, PA)
- Invited speaker, “Update in Biomarker Testing in Cytology Specimens”, Cancer Biomarker Conference IV, October 2019 (Saddlebrook, NJ)
- Faculty, “Small Specimens Great Outcomes: New CAP Guideline on Collection and Handling of Thoracic Small Biopsy and Cytology Specimens for Ancillary Studies”, College of American Pathologists Annual Meeting, September 2019 (Orlando, FL)
- Workshop Presentation, “Molecular Diagnostics in Cytopathology”, College of American Pathologists Annual Meeting, September 2019 (Orlando, FL)

- Grand Rounds speaker, "Molecular Diagnostics in Cytopathology" Mayo Clinic, August 2019 (Rochester, MN)
- Invited speaker, "Immunohistochemistry for Diagnostic and Predictive Biomarkers on Cytology Specimens", Pulmonary Pathology Society Biennial Meeting, June 2019 (Dubrovnik, Croatia)
- Invited speaker, "Molecular Diagnostics in Cytopathology: Opportunities, Limitations, and Pitfalls", University of California San Francisco, June 2019 (San Francisco, CA)
- Invited speaker, "Triage and Management of Cytological Specimens for Biomarker Testing", Molecular Symposium, International Congress of Cytology, May 2019 (Sydney, Australia)
- Faculty, "Update of Molecular Testing of Pulmonary Cytology Samples", Lung Symposium, International Congress of Cytology, May 2019 (Sydney, Australia)
- Faculty, "Small Specimens with Great Outcomes: Enhancing results of thoracic small biopsy and cytology specimens from triage to molecular testing using the new CAP guidelines", International Congress of Cytology, May 2019 (Sydney, Australia)
- Invited speaker, "Biomarker Testing in Lung Carcinoma", Papanicolaou Society of Cytopathology Companion Meeting at United States and Canadian Academy of Pathology Annual Meeting, March 2019 (National Harbor, MD)
- Invited speaker, "When Molecular is Cumbersome in Lung, Cytomorphology is There", International Academy of Cytology Companion Meeting at United States and Canadian Academy of Pathology Annual Meeting, March 2019 (National Harbor, MD)
- Invited speaker, "Pre-analytic Variables that Impact Molecular Testing", Association for Molecular Pathology Companion Meeting at United States and Canadian Academy of Pathology Annual Meeting, March 2019 (National Harbor, MD)
- Faculty USCAP Short Course, "Molecular Diagnostics in Cytopathology: Opportunities, Limitations, and Pitfalls", United States and Canadian Academy of Pathology Annual Meeting, March 2019 (National Harbor, MD)
- Invited speaker, "The Road to Biomarker Testing in Lung Carcinoma: The CAP Guideline on Collection and Handling of Thoracic Small Biopsy and Cytology Specimens for Ancillary Studies", Houston Methodist Hospital, March 2019 (Houston TX)
- Invited speaker, "Optimizing Biomarker Testing in Lung Carcinoma: The CAP Guideline on Collection and Handling of Thoracic Small Biopsy and Cytology Specimens for Ancillary Studies", Texas Society of Pathologists Annual Meeting, January 2019 (Bastrop TX)

- Invited speaker, "Best Practices in Test Ordering", Association for Molecular Pathology webinar series "Advancing Patient Care in NSCLC: Breaking Down Barriers", December 2018
- Invited speaker, "Collection and Handling of Thoracic Small Biopsy and Cytology Specimens for Ancillary Studies: Guideline from the College of American Pathologists", VII Molecular Cytopathology Meeting, November 2018 (Napoli, Italy)
- Invited speaker, "Salvaging the Supernatant: Next Generation Cytopathology for Solid Tumor Mutation Profiling", VII Molecular Cytopathology Meeting, November 2018 (Napoli, Italy)
- Faculty, "21st Century Cytopathology: Utilizing Social Media for Professional and Academic Success (JASC)", American Society of Cytopathology, November 2018 (Washington DC)
- Workshop Presentation, "Collection and Handling of Thoracic Small Biopsy and Cytology Specimens for Ancillary Studies - Guideline from the College of American Pathologists", American Society of Cytopathology, November 2018 (Washington DC)
- Cytopathology Platform Presentations, Moderator, American Society of Cytopathology, November 2018 (Washington DC)
- Invited speaker, "Biomarker Testing in Lung Cancer", The University of Texas Houston, Molecular Conference Series, October 2018 (Houston, TX)
- Grand Rounds speaker, Houston Methodist Hospital, "Molecular Diagnostics in Cytopathology: Opportunities, Limitations, and Pitfalls", October 2018 (Houston, TX)
- "Pulmonary Pathology Slide Seminar" Moderator International Academy of Pathology Annual Meeting, October 2018 (Dead Sea, Jordan)
- Invited speaker, "Next generation sequencing: basic principles and cytological sample requirements", European Congress of Pathology, September 2018 (Bilbao, Spain)
- Invited speaker, "Current Approach to Using Cytology Specimens for Biomarker Testing", Third Cancer Biomarker Conference, September 2018 (Houston, TX)
- Program Director (local), Cancer Biomarkers Conference III, September 2018 (Houston, TX).
- Invited speaker, "Molecular Diagnostics in Cytopathology: Opportunities, Limitations, and Pitfalls", American Society of Cytopathology, September 2018, 2018-2019 Cyto e-conference webinar series
- Moderator, "Best Practices in Small Specimen Management for Laboratory Professionals", Association for Molecular Pathology webinar series "Advancing Patient Care in NSCLC: Breaking Down Barriers", August 2018
- Faculty Lung Cytology Workshop, "Practical approach to molecular diagnostics on cytology specimens" European Congress of Cytology, June 2018 (Madrid, Spain)

- Invited speaker, "Preanalytical factors influencing molecular study of limited volume", Molecular Cytopathology Symposium, European Congress of Cytology, June 2018 (Madrid, Spain)
- Invited speaker, "Guidelines for collection of thoracic biopsy and cytological samples. Handling for molecular testing", Respiratory Cytology Symposium, European Congress of Cytology, June 2018 (Madrid, Spain)
- Chair and Moderator, Respiratory Cytology Symposium, European Congress of Cytology, June 2018 (Madrid, Spain)
- Faculty USCAP Short Course, "Molecular Diagnostics in Cytopathology: Opportunities, Limitations, and Pitfalls", United States and Canadian Academy of Pathology Annual Meeting, March 2018 (Vancouver, Canada)
- Invited speaker, "Specimen Management of Cytology and Small Biopsies for Molecular Testing", Cytopathology and Small Biopsy Update in Texas Medical Center, February 2018 (Houston, TX)
- Invited speaker, "Clinical Applications of Next Generation Sequencing", Texas Society of Pathologists (TSP) Annual Meeting, January 2018 (Houston, TX)
- Invited speaker, "Molecular Diagnostics in Cytopathology", United States and Canadian Academy of Pathology (USCAP) Diagnostic Cytopathology Course, January 2018 (Charleston, SC)
- Invited speaker, "Molecular Diagnostics in Cytopathology", Cytopathology Conference, October 2017 (Beijing, China)
- "Molecular Pathology of Pancreatic Neoplasms" Moderator AMP Annual Meeting, November 2017
- Institutional Grand Rounds, Advances in Oncology Series, September 2017
- Moderator PPS Biennial Meeting, June 2017
- Invited speaker, "Preanalytic Variables in Cytology: Lessons Learned From Next-Generation Sequencing", Pulmonary Pathology Society Companion Meeting at United States and Canadian Academy of Pathology Annual Meeting, March 2017 (San Antonio, TX)
- Faculty USCAP Short Course, "Molecular Diagnostics in Cytopathology: Opportunities, Limitations, and Pitfalls", United States and Canadian Academy of Pathology Annual Meeting, March 2017 (San Antonio, TX)
- Invited speaker, "Application of Next Generation Sequencing to Diagnostic Pathology", CME Pathology Conference, February 2017 (Goa, India)
- Faculty Panel Luncheon Workshop Session, "Molecular Diagnostics in Cytopathology: Opportunities, Limitations, and Pitfalls", American Society of Cytopathology Annual Meeting, November 2016 (New Orleans, LA).

- Faculty Panel Luncheon Workshop Session, "Preanalytic Issues in Molecular Cytopathology", American Society of Cytopathology Annual Meeting, November 2016 (New Orleans, LA).
- Grand Rounds speaker, The University of Texas Medical Branch, "Next generation sequencing in cytology specimens", October 2016 (Galveston, TX)
- Invited speaker, "Molecular Cytopathology", Molecular Cytopathology Conference, October 2016 (Napoli, Italy)
- Invited speaker, "Application of Next Generation Sequencing to Diagnostic Pathology", Lecture at the University of Naples Federico II, October 2016 (Napoli, Italy)
- Invited speaker, "Next generation sequencing in cytology specimens", Joint European Society of Pathology/International Academy of Pathology World Pathology Conference, September 2016 (Cologne, Germany)
- Invited speaker, "Pre-analytic Specimen Collection and Handling", Cancer Biomarkers Conference, September 2016 (Houston, TX).
- Faculty workshop presentation, "Practical Guide to Selecting Tissue for Molecular Diagnostics: A Case-based Approach and Live Microscope Tutorial", American Society for Clinical Pathology Annual Meeting, September 2016 (Las Vegas, NV).
- Faculty workshop presentation, "Molecular Testing in Non-gynecological Cytology", International Congress of Cytology, May 2016 (Yokohama, Japan).
- Invited speaker, "Molecular Diagnostics in Cytopathology: Next Generation Sequencing of Cytologic Specimens", MD Anderson Diagnostic Pathology Course, January 2016 (Houston, TX).
- Invited speaker, "Next Generation Sequencing of Cytologic Specimens: Opportunities, Limitations, and Pitfalls", International Academy of Cytology webinar series, January 2016 (webinar).
- Grand Rounds speaker, Citywide Clinical Pathology Conference, "Clinical Applications of Next-Generation Sequencing", December 2015 (Houston, TX).
- Faculty workshop presentation, "You Want Me To Send What To Where? What the Pathologist Needs to Know in Selecting Material for Molecular Analysis", American Society for Clinical Pathology Annual Meeting, October 2015 (Long Beach, CA).
- "Molecular Diagnostics of Solid Tumors", Molecular Pathology Association of India, Annual Conference, February 2015 (Kolkata, India).
- Faculty workshop presentation, "You Want Me To Send What To Where? What the Pathologist Needs to Know in Selecting Material for Molecular Analysis", American Society for Clinical Pathology Annual Meeting, October 2014 (Tampa, FL).
- "Molecular Diagnostics in Cytopathology", National Institutes of Health Department of Pathology Lecture Series, November 2014 (Bethesda, MD).

- Co-director of workshop presentation, “Molecular Biology Basics”, International Congress of Cytology, May 2013 (Paris, France).
- Keynote speaker, Symposium on Current Trends in Personalized Medicine, April 2013 (Kolkata, India).
- Indian Association of Pathologists, West Bengal chapter monthly meeting, April 2013 (Kolkata, India)
- Grand Rounds speaker, RK Mission Vivekananda Institute of Medical Sciences, Dept. of ENT and Head and Neck Surgery, April 2013 (Kolkata, India)

## PUBLICATIONS

1. Zheng L, Chen H, Zhao J, **Roy-Chowdhuri S**, Kamat AM, Alhalabi O, Gao J, Siefker-Radtke A, Hansel DE, Czerniak B, Guo CC. Plasmacytoid urothelial carcinoma of the urinary bladder-A clinicopathological and molecular analysis of 52 cases. *Hum Pathol*. 2024 Apr 26;148:1-6. doi: 10.1016/j.humpath.2024.04.012.
2. Chen-Yost HI, Bammert C, Hao W, Heymann JJ, Lin DM, Marotti J, Waraksa-Deutsch T, Huang M, Krishnamurti U, Lin O, Ly A, Moatamed N, Pantanowitz L, **Roy-Chowdhuri S**. Changing digital and telecytology practices post COVID-19 comparing ASC survey results from 2016 to 2023. *J Am Soc Cytopathol*. 2024 Feb 22:S2213-2945(24)00014-0. doi: 10.1016/j.jasc.2024.02.004.
3. Passaro A, Al Bakir M, Hamilton EG, Diehn M, André F, **Roy-Chowdhuri S**, Mountzios G, Wistuba I, Swanton C, Peters S. Cancer biomarkers: Emerging trends and clinical implications for personalized treatment. *Cell*. 2024 Mar 28;187(7):1617-1635. doi: 10.1016/j.cell.2024.02.041.
4. **Roy-Chowdhuri S**. The updated College of American Pathologists principles of analytic validation of immunohistochemical assays: A step forward for cytopathology. *Cancer Cytopathol*. 2024 Mar 27. doi: 10.1002/cncy.22818
5. Laberiano-Fernandez C, Gan Q, Wang SM, Tamegnon A, Wistuba I, Yoon E, **Roy-Chowdhuri S**, Parra ER. Exploratory pilot study to characterize the immune landscapes of malignant pleural effusions and their corresponding primary tumors from patients with breast carcinoma and lung adenocarcinoma. *J Am Soc Cytopathol*. 2024 Feb 29:S2213-2945(24)00019-X. doi: 10.1016/j.jasc.2024.02.005.
6. Salah HT, Yang RK, **Roy-Chowdhuri S**, Ross MI, Aung PP, Rothrock AT, Torres-Cabala CA, Curry JL, Prieto VG, Nagarajan P, Cho WC. Spitz melanocytic neoplasms with MLPH::ALK fusions: Report of two cases with previously unreported features and literature review. *J Cutan Pathol*. 2024 Mar 5. doi: 10.1111/cup.14605

7. Goldsmith JD, Troxell ML, **Roy-Chowdhuri S**, Colasacco CF, Edgerton ME, Fitzgibbons PL, Fulton R, Haas T, Kandalaft PL, Kalicanin T, Lacchetti C, Loykasek P, Thomas NE, Swanson PE, Bellizzi AM. Principles of Analytic Validation of Immunohistochemical Assays: Guideline Update. Arch Pathol Lab Med. 2024 Feb 23. doi: 10.5858/arpa.2023-0483-CP.
8. Badgwell B, Estrella J, **Roy-Chowdhuri S**, Ikoma N, Blum Murphy M, Ajani J, Mansfield P. Updated Analysis of a Phase 2 Trial of Cytoreduction, Gastrectomy, and Hyperthermic Intraperitoneal Perfusion with Chemotherapy for Patients with Peritoneal Carcinoma from Gastric Cancer. Ann Surg Oncol. 2024 Jan 29. doi: 10.1245/s10434-024-14953-2
9. Zheng L, Luthra R, Alvarez HA, San Lucas FA, Duose DY, Wistuba II, Fuller GN, Ballester LY, **Roy-Chowdhuri S**, Sweeney KJ, Rashid A, Yang RK, Chen W, Liu A, Wu Y, Albarracin C, Patel KP, Routbort MJ, Sahin AA, Ding Q, Chen H. Intragenic EGFR::EGFR.E1E8 Fusion (EGFRvIII) in 4331 Solid Tumors. Cancers (Basel). 2023 Dec 19;16(1):6. doi: 10.3390/cancers16010006.
10. Arjuna S, Shah M, Dono A, Nunez-Rubiano L, Pichardo-Rojas PS, Zhu JJ, Riascos RF, Luthra R, **Roy-Chowdhuri S**, Duose D, Wang DH, Lang FF, Esquenazi Y, Ballester LY. Rapid detection of mutations in CSF-cfDNA with the Genexus Integrated Sequencer. J Neurooncol. 2023 Dec 30. doi: 10.1007/s11060-023-04487-0.
11. Kerr KM, Bubendorf L, Lopez-Rios F, Khalil F, **Roy-Chowdhuri S**, Joubert P, Hartmann A, Guerini-Rocco E, Yatabe Y, Hofman P, Cooper WA, Dacic S. Optimizing tissue stewardship in non-small cell lung cancer to support molecular characterization and treatment selection: statement from a working group of thoracic pathologists. Histopathology. 2024 Feb;84(3):429-439. doi: 10.1111/his.15078.
12. Diks J, Tang Z, Altan M, Anderson S, Chen H, Rashid A, Yang RK, Routbort MJ, Patel KP, Toruner GA, Medeiros LJ, Tang G, Luthra R, **Roy-Chowdhuri S**. Detection of clinically actionable gene fusions by next-generation sequencing-based RNA sequencing of non-small cell lung cancer cytology specimens: A single-center experience with comparison to fluorescence in situ hybridization. Cancer Cytopathol. 2023 Sep 25. doi: 10.1002/cncy.22766.
13. Wang K, Du R, **Roy-Chowdhuri S**, Li ZT, Hong L, Vokes N, Elamin YY, Hume CB, Skoulidis F, Gay CM, Blumenschein G, Fossella FV, Tsao A, Zhang J, Karachaliou N, O'Brate A, Gann CN, Lewis J, Rinsurongkawong W, Lee JJ, Gibbons DL, Vaporciyan AA, Heymach JV, Altan M, Le X. Brief Report: Clinical Response, Toxicity, and Resistance Mechanisms to Osimertinib Plus MET Inhibitors in Patients With EGFR-Mutant MET-Amplified NSCLC. JTO Clin Res Rep. 2023 Jun 1;4(8):100533. doi: 10.1016/j.jtocrr.2023.100533.
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21. Gan Q, **Roy-Chowdhuri S**. Specimen Considerations in Molecular Oncology Testing. *Clin Lab Med.* 2022 Sep;42(3):367-383. doi: 10.1016/j.cll.2022.04.002.

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24. Zaleski MP, Chen H, **Roy-Chowdhuri S**, Patel KP, Luthra R, Routbort MJ, Kamat AM, Gao J, Siefker-Radtke A, Czerniak B, Guo CC. Distinct Gene Mutations Are Associated With Clinicopathologic Features in Urachal Carcinoma. *Am J Clin Pathol*. 2022 Apr 25:aqac039. doi: 10.1093/ajcp/aqac039.
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26. Parsons DW, Janeway KA, Patton DR, Winter CL, Coffey B, Williams PM, **Roy-Chowdhuri S**, Tsongalis GJ, Routbort M, Ramirez NC, Saguilig L, Piao J, Alonzo TA, Berg SL, Fox E, Hawkins DS, Abrams JS, Mooney M, Takebe N, Tricoli JV, Seibel NL; NCI-COG Pediatric MATCH Team. Actionable Tumor Alterations and Treatment Protocol Enrollment of Pediatric and Young Adult Patients With Refractory Cancers in the National Cancer Institute-Children's Oncology Group Pediatric MATCH Trial. *J Clin Oncol*. 2022 Mar 30:JCO2102838. doi: 10.1200/JCO.21.02838.
27. Vigliar E, Lozano MD, **Roy-Chowdhuri S**. Editorial: Advances in Molecular Cytopathology. *Front Med (Lausanne)*. 2022 Feb 11;9:851949. doi: 10.3389/fmed.2022.851949.
28. Vigliar E, Pisapia P, Dello Iacovo F, Alcaraz-Mateos E, Alì G, Ali SZ, Baloch ZW, Bellevicine C, Bongiovanni M, Botsun P, Bruzzese D, Bubendorf L, Büttner R, Canberk S, Capitano A, Casadio C, Cazacu E, Cochand-Priollet B, D'Amuri A, Davis K, Eloy C, Engels M, Fadda G, Fontanini G, Fulciniti F, Hofman P, Iaccarino A, Ieni A, Jiang XS, Kakudo K, Kern I, Kholova I, Linton McDermott KM, Liu C, Lobo A, Lozano MD, Malapelle U, Maleki Z, Michelow P, Mikula MW, Musayev J, Özgün G, Oznur M, Peiró Marqués FM, Poller D, Pyzlak M, Robinson B, Rossi ED, **Roy-Chowdhuri S**, Saieg M, Savic Prince S, Schmitt FC, Seguí Iváñez FJ, Štoos-Veić T, Sulaieva O, Sweeney BJ, Tuccari G, van Velthuysen ML, VanderLaan PA, Vielh P, Viola P, Voorham QJM, Weynand B, Zeppa P, Faquin WC, Pitman MB, Troncione G. COVID-19 pandemic impact on cytopathology practice in the

post-lockdown period: An international, multicenter study. *Cancer Cytopathol.* 2022 May;130(5):344-351. doi: 10.1002/cncy.22547.

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