
BIOGRAPHICAL SKETCH

NAME: GEETASHREE MUKHERJEE

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POSITION TITLE: Senior Consultant & Head , Histopathology

Tata Medical Center,, Kolkata,
14 Main Arterial Road (EW)
New Town, Rajarhat
Kolkata – 700160, India.

| INSTITUTION AND LOCATION | DEGREE (if applicable) | Completion Date MM/YYYY | FIELD OF STUDY |
|---|------------------------------|-------------------------------|---|
| Guntur Medical College, Guntur | MB;BS | 04/1978 | All major fields including Internal Medicine, Surgery & Gynecology Pathology |
| Rajendra Institute of Medical Sciences, Ranchi | MD | 09/1982 | |
| Jawaharlal Institute of Post Graduate Medical Education & Research (JIPMER), Pondicherry | Postdoctoral | 07/1984 | |

A. Domain Experience

I have, gained experience in **gross dissection, cut up and reporting** of a full range of surgical specimens and **frozen section material**. This includes experience in specialities such as **Tumor Pathology**, Dermatopathology, Bone, Haematopathology, Respiratory, Cardiothoracic, Breast, Soft Tissue, GI, Head and neck, Lymphoreticular, Gynae-Pathology, Paediatric Pathology, Urology etc.

I have been working in a specialized tertiary referral oncology centre (Kidwai Memorial Institute of Oncology) since 1985 in different capacities as mentioned below, and currently attached to Tata Medical Center (TMC), Kolkata. The department at TMC has a dedicated histopathology service for complicated and difficult diagnostic specimens, all major cancer resection specimens, diagnosis and sub-typing of lymphomas and expert opinions and reviews on various difficult malignancies. Reporting is done using all ancillary diagnostic tools including special stains, immunohistochemistry, cytogenetics and other molecular methods where applicable. Reports include complete diagnostic and prognostic details to an international standard. I also have teaching and administrative experience.

B. Teaching

25 years experience in teaching Pathology post graduates and technologists. Was a BNB pathology guide for 4 students and a Ph.D guide for 2 students in oncology under Rajeev Gandhi University of Health Sciences, Karnataka.

C. Positions and Honors

Positions and Employment

1. Assistant Prof. Pathology – 1984 October to 1985 March – Sri Venkateswara Medical College, Tirupati
2. Lecturer in Pathology -1985 March to 1986 September -, Kidwai Memorial Institute of Oncology, Bangalore.
3. Assistant Professor Pathology-1986 September to 2000 March - - Kidwai Memorial Institute of Oncology, Bangalore.
4. Professor of Pathology & Heading the Department-2000 March to 2014 September — Kidwai Memorial Institute of Oncology, Bangalore.
5. Senior Consultant and Head, Histopathology - December 2014 to present — Tata Medical Center, Kolkata.

D. Other Experience and Professional Memberships

Molecular Biology: National Centre for Biological Sciences, TIFR, Bangalore 1994

UICC – Fellow, Dept. of Pathology Mol. Biology 1999, University of Cambridge, UK.

UICC – Fellow, MRC Cancer Mol. Biology Centre 2009, University of Cambridge, UK.

Life Member of the following Organizations

1. UICC (Union International for Cancer Control, Geneva)
2. ISO (Indian Society of Oncology)
3. AGOI (Association of Gynaec-oncologists of India)
4. IACR (Indian Association for Cancer Research)
5. IMA (Indian Medical Association, Karnataka Branch)

COMMITTEES

1. Member of Oversight Committee of the Bio-bank at Tata Medical Center, Kolkata (2015 – present).
2. Member of Ethical Committee on Stem Cell Research, Indian Institute of Science, Bangalore.(2011 – 2014)
3. Member of Scientific Review Board for Projects under Kidwai Memorial Institute of Oncology, Bangalore.(2005 – 2014).
4. Member of PhD Committee, Rajiv Gandhi University of Health Sciences, Bangalore (2005 – 2008, 2011 – 2014).
6. Member of Institutional Ethical Committee, Neuroscience Dept. Indian Institute of Science, Bangalore (2013 – 2014)
7. Member of the Roche advisory board for quality control for Her2 testing in India (2013 – 2016)

REVIEWER

1. Journal of Bio sciences, 2. Indian Journal of Medical Research,3. Indian Journal of Cancer, 4. Indian Journal of Gynecological Cancer, 5. Scientific Reports, 6. Several others, including projects under DBT.

Honors

1. **Yamagiwa-Yoshida** Memorial UICC international award for 2009. Geneva, Switzerland. (Union for international cancer control).
2. **ICRETT fellowship** by the Union for international cancer control (UICC) ,1999.

Publications

Amrita Chaudhary, Swarnendu Bag and **Geetashree Mukherjee***. MALDI-MS Molecular Imaging for Cancer Metabolomics: An Emerging field for Research and Personalized Medicine. *European Journal of Pharmaceutics and Biopharmaceutics* (Under Review; Manuscript number: EJPB-D-20-00955).

1. Amrita Chaudhary, Swarnendu Bag, Neeraj Arora, Vivek S Radhakrishnan, Deepak Mishra and **Geetashree Mukherjee***. Hypoxic Transformation of Immune Cell Metabolism within the Microenvironment of Oral Cancers. "*Frontiers in Oral Health-Oral Cancers*". (2020); 1:585710. doi: 10.3389/froh.2020.585710.
2. **Geetashree Mukherjee**, Swarnendu Bag, Prasenjit Chakraborty, Debdeep Dey, Samrat Roy, Prateek Jain, Paromita Roy, Richie Soong, Suparna Dutt, Partha Pratim Majumder. Density of CD3+ and CD8+ cells in gingivo-buccal squamous cell carcinoma is associated with lymph node metastases and survival. *PLoS ONE* (2020) 15(11): e0242058. <https://doi.org/10.1371/journal.pone.0242058>.
3. Antara Biswas, **Geetashree Mukherjee**, Paturu Kondaiah and Kartiki V. Desai. Both EZH2 and JMJD6 regulate cell cycle genes in breast cancer. *BMC Cancer* (2020) 20:1159 <https://doi.org/10.1186/s12885-020-07531-8>.
4. Pragya Gupta , Kallol Saha a , Sushant Vinarkar , Saheli Banerjee , Sourav Sarma Choudhury , Mayur Parihar , Divya Midha , **Geetashree Mukherjee** c, Dayananda Lingegowda, Sanjoy Chatterjee , Moses Arunsingh S , Raj Shrimali , Sandip Ganguly , Deepak Dabkara, Bivas Biswas , Deepak K. Mishra , Neeraj Arora a *Next generation sequencing in lung cancer: An initial experience from India. *Current Problems in Cancer*. 44 (2020). doi: 10.1016/j.currprobcancer.2020.100562
5. P. Chakraborty, T. Karmakar, N. Arora & **G. Mukherjee**. Immune and genomic signatures in oral (head and neck) cancer. *Heliyon* 4 (2018) e00880. doi: 10.1016/j.heliyon.2018. e00880
6. J.Pollard, PA Burns, TA Hughes, Cho-Yen, JL Jones, **G Mukherjee**, GO Omoniyi Esan, NA Titloye, V Spiers, AM Shaaban. Differential expression of microRNAs in breast cancers from four different ethnicities. *Pathobiology*. DOI : 10.1159/000488456. May 23rd, 2018.
7. Antara Biswas, Abhijith Shettar, **Geetashree Mukherjee**, Paturu Kondaiah and Kartiki V. Desai. JMJD6 induces HOTAIR, an oncogenic lincRNA, by physically interacting with its proximal promoter. *Biochemical Journal* (2018) 475 355–371.
8. Sreenivas A, Mahesh M. K, Vinodkumar H.S, **Geetashree M**, Krishnamurthy H, Kshitish A, Uttam. D.B, Devi K. Uma, B Abhishekh, Sudhir K, Parchure A, Jayshree R.S. Oestrogen Receptor-abinds the *FOXP3* promoter and modulates regulatory T-cell function in human cervical cancer. *Scientific Reports* 7, Article number: 17289 (2017) 1 – 15.
9. Monalisa Das, Arun Renganathan, Shrinivas Nivrutti Dighe, Utsa Bhaduri, Abhijith Shettar, **Geetashree Mukherjee**, Paturu Kondaiah & Manchanahalli R. Satyanarayana Rao. DDX5/p68 associated lincRNA LOC284454 is differentially expressed in human cancers and modulates gene expression. *RNA Biology*, (2017) Vol. 0, No. 0, 1–17.
10. S.Damineni, SA Balaji, A Shettar, S Nayanala, N Kumar, B.S. Kruthika, K Subramanyam, M Vijayakumar, **G Mukherjee**, V Gupta, P Kondaiah. Expression of tripartite motif-containing protein 28 in primary breast carcinoma predicts metastasis and is involved in the stemness, chemoresistance, and tumor growth. *Tumor Biology* (2017), April, 1 – 17.
11. Mahesh KM, Sravanthi, Akhilesh, **Geetashree M**, Umadevi K, Kshitish A, Pramod K, Bafna UD, Jayshree RS. Role of Estrogen Receptor Alpha in human cervical cancer associated fibroblasts: a transcriptomic study. *Tumor Biology* (2016) April, 37 (4) 4409 -20.
12. **Geetashree M**, Lakshmaiah K.C, Vijayakumar M, Jyothi S.P, Deepthi T, Sridhar TS, Rekha V Kumar. Analysis of Clinico-Pathological Characteristics of Indian Breast Cancers shows Conservation of Specific Features in the Hormone Receptor Sub-Types. *J. Integr Oncol*, (2016), 5: 1, 1 – 5.
13. K Desai, MG Nair, JS Prabhu, A Vinod, A Korlimarla, S Rajarajan, R Aiyappa, RS Kaluve, A Alexander, PS Hari, **G Mukherjee**, RV Kumar, S Manjunath, M Correa, BS Srinath, S Patil, MSN Prasad, KS Gopinath, RN Rao, SM Violette, PH Weinreb, TS Sridhar. High expression of integrin β 6 in association with the Rho– Rac pathway identifies a poor prognostic subgroup within HER2 amplified breast cancers. *Cancer Medicine*. (2016) April 5, doi:10.1002/cam 4.756.

14. Mohsinn B, Surekha D, **Geetashree M** and Paturu K. Activin-A signaling promotes Epithelial Mesenchymal transition and metastatic growth of breast cancer. *NPJ Breast Cancer* (2015) 12th August.
15. Anurag N Paranjape, Sai A Balaji, Tamoghna Mandal, Esthelin V Krushik, Pradeep Nagaraj, **Geetashree Mukherjee**, Annapoorni Rangarajan. Bmi1 regulates self renewal and epithelial to mesenchymal transition in breast cancer cells through Nanog. *BMC Cancer* (2014); 14: 785.
16. SK Hindupur, SA Balaji, M Saxena, S Pandey, GS SRavan, N Heda, M Vijayakumar, **G Mukherjee**, D Dey, A Rangarajan. Identification of a novel AMPK-PEA15 axis in the anoikis-resistant growth of mammary cells. *Breast Cancer Res* (2014); 16(4): 420, August 6.
17. P Sehgal, N. Kumar, S. Patil, A. Bhattacharya, M. Vijayakumar, **G. Mukherjee** and P. Kondaiah. Regulation of pro-tumorigenic pathways by IGF2BP2 & its association along with Beta-catenin in breast cancer lymph node metastasis. *Mol Cancer*. (2013), June 16; 12:63.
18. Umaira Tabassum, Irene Rosita Patrick, **G. Mukherjee**, and K. Somasundaram. Risk score based on expression of AP2 alpha, CH13L1 and PBEF1 is a better predictor of prognosis in breast cancer. *Int. Journal of Scientific & Research Publications*. (2013); 3:5, May 2013.
19. Sreenivas A, **Geetashree M**, Krishnamurthy H, Sudhir K, Bafna U.D, Kswamy, Umadevi and Jayshree RS. Functional tumor infiltrating TH1 & TH2 effectors in large early stage cervical cancer are suppressed by Regulatory T cells. *International Jour. of Gynecological cancer*, (Aug 2012), 22 (7): 1130 – 1137.
20. A.N. Paranjape, T. Mandal, **G. Mukherjee**, MV Kumar, K Sengupta and A. Rangarajan. Introduction of SV40ER and hTERT into mammospheres generated breast cancer cells with stem cell properties. *Oncogene*, (2012) ,April 12; 31 (15): 1896 – 909.
21. U. Tabassum, O. Reddy and **G. Mukherjee**. Elevated serum haptoglobin is associated with clinical outcome in triple negative breast cancer patients. *Asian Pacific Journal of Cancer Prevention* (2012) 13 (q), 4541 – 4544.
22. P.N.Shakuntala, K. Uma Devi, K. Shobha, U.D.Bafna and **M. Geetashree**. Pure Large Cell Neuroendocrine Carcinoma of Ovary: A rare clinical entity & review of literature. *Case Reports in Oncological Medicine*, Vol (2012), article ID 120727, pgs 1 – 4.
23. Mahesh M, Sreenivas A, Surya R, **Geetashree M**, Omana J, Krishnamurthy H, Sudhir K, Bafna U.D, Uma Devi K and Jayshree R.S. Toll-like receptors 7,8 & 9 expression and function in primary human cervical cancer langerhans cells – Evidence of anergy. *Int J of Gynec Cancer*, (2012) ,00.00, 1 – 9.
24. B. Singh, R. Gautam, S. Kumar, V. kumar, U. Nangthamba, D. Nandi, **G. Mukherjee**, V. Santhosh, K.S. Sundaram and S. Umapathy. Application of vibrational microspectroscopy to biology and medicine. *Current Science*, Vol. 102, issue 02, (Jan 2012), 153-367.
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26. Singh T, Satheesh CT, Appaji L, Aruna Kumari BS, Padma M, Kumar MV and **G. Mukherjee**, Hepatoblastoma: Experience from a single center. *Indian Journal of Cancer* (2010), Volume 47, Issue -3, July-September, 314-316.
27. S Srivastava, B Ramdass, S Nagarajan, M Rehman, **G Mukherjee** and S Krishna. Notch 1 regulates the functional contribution of RhoC to cervical carcinoma progression. *British Journal of Cancer* (2010), 102, 196-205.
28. K Vaidyanathan, S Lakhota, HM Ravishankar, U Tabassum, **G Mukherjee** and K Somasundaram. BRCA1 & BRCA2 germ line mutation analysis among Indian women from South India: identification of four novel mutations & high frequency occurrence of 185del AG mutation. *J. Biosci* (Sept. 2009) 34(3), 415 – 422.
29. D Dey, M Saxena, NA Paranjpe, V Krishnan, R Giraddi, M Vijayakumar, **G Mukherjee** and A Rangarajan. Phenotypic & Functional Characterization of Human Mammary Stem / Progenitor Cells in Long Term Culture. *PLoS ONE* (2009), Vol 4, Issue 4, e5329, 1 – 12.
30. C Obul Reddy, PP Bapsy, V S S Attili and **G Mukherjee**. Breast cancer in young women – A study from South India. *Australasian Journal of Cancer*. (2009), No:1,Vol 8, 243 – 248.
31. Anita Flynn and **G. Mukherjee**. Calcified amorphous tumor of the hearth. *Journal of Indian Association of Pathologists and Microbiologists*. (2009) V 52 : 3, July-Sept .

32. R James, K Thriveni, G Ramaswamy, L Krishnamoorthy, **G Mukherjee**, V Deshmane and P Bapsy. Evaluation of Immunohistochemistry and Enzyme Linked Immunosorbent Assay for Her-2/Neu Expression in Breast carcinoma. *Indian Jour of Clinical Biochemistry*. (2008), 23 (4), 345 -351.
33. Sreenivas A, Sudhir K, **Mukherjee G**, Bafna UD, Uma D and Jayshree R. Regulatory T cells in a spectrum of HPV induced cervical lesions: cervicitis, cervical intraepithelial neoplasms and squamous cell carcinoma. *Amer J Reprod Immunol* (2008),60: 55 – 60.
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35. CS Premalata, DS Madhumathi, V Lakshmi Devi, R Pradeep, L Appaji and **G Mukherjee**. Gum hypertrophy – an unusual presenting feature in a case of precursor T-cell acute lymphoblastic leukemia. *Turk J Hematol*. (2008), 25, 201-204.
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37. DS Madhumathi, CS Premalata, V Lakshmi Devi, L Appaji, BS Aruna Kumari, M Padma and **G. Mukherjee**. Bone marrow involvement at presentation in pediatric non-haematological small round cell tumours. *Indian J Pathol Microbiol* (2007),50,4: 886 – 889.
38. B Muralidhar, L D Goldstein, G Ng, D M Winder, R D Palmer, E L Gooding, N L Barbosa Morais, **G Mukherjee**, N P Thorne, I Roberts, M R Pett and N Coleman. Global microRNA profiles in cervical squamous cell carcinoma depend on Drosha expression levels. *Journal of Pathology*. (2007),212, 4, 368 – 377.
39. G Ng, D Winder, B Muralidhar, E Gooding, I Roberts, M Pett, **G Mukherjee**, J Huang and N Coleman. Gain and overexpression of the oncostatin M receptor occur frequently in cervical squamous cell carcinoma and are associated with adverse clinical outcome. *Journal of Pathology*. (2007),212, 3, 325 – 334.
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42. Prasanna Kumari, **G. Mukherjee**, CR Rao, Gayathri Devi, S. Biswas, L. Appaji, B.S. Aruna Kumari, M. Padma, P.P. Bapsy and T.S. Sundareshan. Cytogenetic Study of Non-Hodgkin's Lymphoma from South India: Histologic and geographic correlations. *Cancer Genetics and Cytogenetics* (2003) 140, 14-19.
43. Rekha V. Kumar, **Geetashree Mukherjee** and Ashok M. Shenoy. Follicular dendritic cell tumor - a case report. *Indian J Pathol Microbiol* (2003) 46 (3): 451-453.
44. A. M. Udayakumar, T.S. Sundareshan, L. Appaji, S. Biswas and **G. Mukherjee**. Rhabdomyosarcoma: cytogenetics of five cases using fine-needle aspiration samples and review of the literature. *Annales de Genetique* (2002) 45, 33-37.
45. A. M. Udaya kumar, T.S. Sundareshan, **G. Mukherjee**, S. Biswas, K.R. Rajan and P.S. Prabhakaran. Submandibular synovial sarcoma with t(X;18) and synovial sarcoma of the toe with additional cytogenetic abnormalities: presentation of two cases and review of the literature. *Cancer Genetics and Cytogenetics* (2002) 134, 151-155.
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47. R.V.Kumar, **Mukherjee G**; Vijay K. Ahuja ; E. Vallikad and D. Hazarika. Aggressive Angiomyxoma: *Indian Jour. Pathol. Microbiol.*, (1997) 40 (3) 389-391.
48. B. Daniel; A. Rangarajan, **Mukherjee G**; E. Vallikad and S. Krishna. The link between integration and expression of human papillo-mavirus type 16 genomes and cellular changes in the evolution of cervical intraepithelial neoplastic lesions . *Journal of General Virology* (1997),78: 1095-1101.
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Book: Principles & Practice of Colposcopy by B. Shakuntala Baliga, 3rd edition – 2018. Reference made in chapter 22, pages 329-330.

Ongoing Research Support

Ongoing Research Support at Tata Medical Center

Excavating the relationship between genomic alterations and tumor immune microenvironment in oral squamous cell carcinoma – gingivo buccal (OSCC-GB) to inform immunotherapy (GIFT Study). Project under Systems Medicine Cluster (SyMeC), funded by DBT, Govt. of India. (IRB Ref No: EC/GOVT/23/17). P.I from TMC- Dr. Geetashree Mukherjee

Association of tumor-associated immune cell markers with lymph node metastasis in gingivo-buccal oral carcinoma (GBOC) and their relationships to genomic drivers of metastasis: a retrospective study on formalin fixed paraffin embedded (FFPE) tissue. (IML study) (IRB Ref No: EC/TMC/69/16). A collaborative study with NIBMG, Kalyani. P.I: Dr. Geetashree Mukherjee

Using differential RNA expression in serum exosomes as a tool to understand breast cancer recurrence (BREXO study) (IRB Ref No: EC/PHARMA/34/17). A collaborative study with NIBMG, Kalyani and University of Chicago. P.I : Dr. Geetashree Mukherjee

Gene signatures predictive of pathological response to neo-adjuvant chemotherapy in women with locally advanced triple negative breast cancer (GS study) (IRB Ref No: EC/TMC/50/15). This study is in collaboration with NIBMG, Kalyani. PI: Dr. Geetashree Mukherjee