Current Position

2018 - Present Senior Scientist and DBT - Ramalingaswami Fellow.

Center for Translational Cancer Research: Prashanti Cancer Care Mission and IISER Pune.

Lab web page: https://www.tmemklab.com

Grants Received

2024 2023 – 2026	TheraCUES GeoMx® DSP Grant for spatial profiling of tumor samples. 6L. DST-SERB [CRG/2022/001218] as a co-PI. Collaborative grant with Dr Shamik Sen, IIT Mumbai. INR 75L. "Probing the contribution of Mucin-1 to therapeutic resistance and metastasis in breast cancer".
2023 – 2025	CSR Funded by a pharma company Athenahealth for INR 35L with Dr Kundan Sengupta, IISER Pune on "Developing proof of concept for low-cost Breast Cancer Diagnostic Tests using indigenous resources for affordable access across India."
2022 – 2024	DST-SERB [CRG/2021/001404] as a PI. Collaborative grant with Prof. LS Shashidhara. INR 86L "Investigation of regulation of YAP driven tumorigenesis by promoter-proximal pausing".
2021 - 2023	DBT [BT/PR41038/BRB/10/1940/2020] as a PI. Collaborative grant with Prof. LS Shashidhara. INR 90L "YAP function in growth factor receptor signalling in mammary epithelial cells during growth control and tumorigenesis".
2018 – 2023	DBT-Ramalingaswami Fellowship, as a PI [BT/RLF/Re-entry/15/2015] INR 121 lakh. "To investigate the role of Hippo Signaling to predict metastatic potential and survival in breast cancer patients from Indian Subcontinent." – Ongoing.
2014 – 2017	B2B NUHS, In collaboration with Prof. Yoshiaki Ito and A/Prof. Lee Soo Chin. (Conceived &wrote the grant) SGD \$100,000. "To investigate the role of YAP and develop prognostic signature to predict metastatic potential and survival in triple-negative breast cancer patients." – Completed.

Areas of Expertise

Translational Research: Identifying clinically relevant gaps and designing experiments to address those gaps.

Cancer Biology: Investigate underlying cancer progression and metastasis mechanisms using cell lines, mouse models, and patient samples, with a special focus on the role of TME.

Cancer Signaling: Expertise in immune cell infiltration, Hippo-YAP, TGF-β, and Angiogenic signaling in cancer biology.

Soft-Skills

Cross-Continent exposure: Have worked in the US, Singapore, and in India with the successful administration of grants. **Effective mentoring:** Have trained students who have successfully ventured into their scientific journeys in India and abroad. I strongly support and provide agency to lead and strive upto their potential.

Effective Leadership: Have initiated and taken through successful establishments of programs and projects through self-motivation, clear and effective communication, time management, resilience, consistency, adaptability, and lifelong learning.

Academic Qualifications

2003 – 2008	PhD in Cell Biology and Molecular genetics. (GPA: 4.00) University of Maryland, College Park. USA.
	Three first author publications in international journals.
2000 – 2002	Master's in science. University of Pune, India
	Gold Medal for scoring highest overall grade with 1st rank in the university.
1997 – 2000	Bachelor's in science. V. G. Vaze College, University of Mumbai, India Highest
	overall grade with 3rd rank in the university.

Research Experience

Madhura Kulkarni

2014 – 2019	Adjunct Research Fellow. Cancer Science Institute. National University of Singapore To investigate the role of YAP and develop a YAP-based prognostic signature to predict metastatic potential and survival in triple negative breast cancer patients. In collaboration with Prof. Yoshiaki Ito and A/Prof. Lee Soo Chin.
2014 – 2017	Senior Research Fellow. LKC School of Medicine, NTU, Singapore Role of TGF1 β signaling in angiogenesis in cancer and other diseases. PI: Prof. Wanjin Hong and A/Prof. X. Wang
2011 – 2014	Research Fellow. Cancer Science Institute. National University of Singapore Hippo signaling and RUNX interplay in breast cancer recurrence. PI: Prof. Yoshiaki Ito
2009 – 2010	Postdoctoral Fellow. Harvard Medical School, Cell Biology Department and Massachusetts General Hospital, Cancer Center. Pl: Dr. Anders Näär. Constitutor requirements for NE 18B Cone Begulations in Immuno Cells and Concer Brogression.
2003 – 2008	Co-activator requirements for NF- kB Gene Regulations in Immune Cells and Cancer Progression. Graduate Research Assistant at Department of Cell Biology and Molecular genetics. University of Maryland, College Park and CARB-UMBI, USA Transcription and ubiquitination mediated regulation of sperm development in C. elegans.
2002 – 2003	Advisor: Dr. Harold Smith (CARB); Co-advisor: Dr. Stephen Mount (UMCP) Junior Research Fellow at Tata Institute of Fundamental Research, Mumbai. India Regulation of dynein, motor protein complex involved in intracellular transport, by dynein-light chain subunit studied in <i>Drosophila melanogaster</i> . Supervisor: Dr. Krishanu Ray

Membership in scientific societies

2024 - Current:	Immuno-Oncolog	y Society	y of India – Life Member	
-----------------	----------------	-----------	--------------------------	--

2023 - Current: Indian Association of Cancer Research - Life Member ID 1239.

2022 - Current: Scientific Member of Indian Cancer Genome Atlas, ICGA

2022 - Current: Organizational Member - International Society for Biological and Environmental Repositors ID 68261120

2021 - Current: Early Career Member EACR - European Association for Cancer Research ID 30768

2020 - Current: Full Early Career Member ASCO - American Society of Clinical Oncology, ID 7106055

2019 - Current: Faculty Member for AACR - American Association for Cancer Research, ID 1033963

Member of scientific consortia

2021- Current: Member of Scientific Advisory Board for Indian Cancer Genome Atlas (ICGA) www.icga.in

Member of Editorial Boards of Peer Reviewed Journals

2024 – Current: Associate Editor on the Editorial Board of Gene Reports (IF 1.0)

2023 – Current: Review Editor on the Editorial Board of <u>Frontiers in Cell and Developmental Biology</u> (IF 6.0) for specialty section: Cell Death and Survival.

Reviewed Manuscripts for journals (impact factor)

<u>BJC reports</u> (9.0), <u>Oncogene</u> (8.0), <u>International Journal of Cancer</u> (7.0), <u>BMC Cancer</u> (4.4), <u>Breast Cancer</u> (4.0), <u>Cancer Treatment and Research Communications</u> (3.0), <u>Discover Oncology</u> (2.2), <u>Scientific Reports</u> (3.8) etc...

Fellowships and Awards

2023	Selected for an inaugural pilot mentoring program with EACR to connect with a global network of
	scientists in the cancer field. Mentor: Dr Milena Cavic, Institute for Oncology and Radiology of Serbia.
2022	Part of the inaugural WomenLift Health 2022 cohort - India Leadership Journey funded by Melinda
	Gates Foundation
2021	Nominated as an ambassador for India for the European Association for Cancer Research (EACR)
2019	International Travel Support from DST-SERB
2017	Ramalingaswami 're-entry' fellowship from DBT, India.

Madhura Kulkarni

200 200	04 – 2008 Graduate Research Assistantship. CARB, UMBI 03 – 2004 Graduate Scholarship, CBMG, UMCP 02 – 2003 Junior Research Fellowship, TIFR, Mumbai.
200	MSc Botany examination at University of Pune, India.
200	$And selected amongst \textbf{top 2}\% \ students from this National level test conducted by Government \ of India and the selected amongst \textbf{top 2}\% \ students from this National level test conducted by Government \ of India and the selected amongst \textbf{top 2}\% \ students from this National level test conducted by Government \ of India and the selected amongst \textbf{top 2}\% \ students from this National level test conducted by Government \ of India and the selected amongst \textbf{top 2}\% \ students from this National level test \ of India and \textbf{top 2}\% \ students from the selected amongst \ \textbf{top 2}\% \ students \ from the selected \ students \ st$
200 199	• • • • • • • • • • • • • • • • • • • •
Ma	nuscripts in Submission * Corresponding author
	Madhumita Chalkadar, Madhumathy G Nair, Jyothi S Prabhu, TS Sridhar, Devaki Kelkar, Madhura Kulkarni , LS Shashidhara. "PTPN11/SHP2 negatively regulates growth in breast epithelial cells: implications on tumorigenesis." bioRxiv. 2020.07.30.228445; doi: https://doi.org/10.1101/2020.07.30.228445 Shruti Bhardiya, Sigma Pradhan, Gomathi V, LS Shashidhara and Madhura Kulkarni* . "Synergistic effect of YAP and HER2 growth factor receptor signalling in mammary epithelial cell line." Pooja Vaid, Pranali Kanase, Shweta Kadu, Diksha Yadav, Devaki Kelkar, Chaitanyanand Koppiker, L S Shashidhara and Madhura Kulkarni* . "Triple-negative breast cancer tumor microenvironment profiled for immune infiltrates
	stratified for treatment response."
	Pooja Vaid, Madhura Kulkarni "RNA quality assessment of ten-year-old FFPE tumor samples and its utility in transcriptomics analysis."
	transcriptomics analysis."

Peer-reviewed Publications #22

- *h*-index: 15, citations 863 2024 Amlan Barai, Niyati Piplani, Gomathi V, Mayank M Ghogale, Sushil Kumar, Madhura Kulkarni, Shamik Sen*. "Bulky glycocalyx drives cancer invasiveness by modulating substrate-specific adhesion." Accepted in PNAS Nexus. July
- 2023 C B Koppiker, Devaki A Kelkar, Madhura Kulkarni, Shweta Kadu, Mughda Pai, Upendra Dhar, Chetan Deshmukh, Beenu Varghese, Vaishali Zamre, Nutan Jumle, Nutan Gangurde, Anjali Joshi, Rohini Unde, Rituja Banale, Namrata Namewar, Pooja Vaid, Laleh Busheri, George Thomas, Smeeta Nare, Jerome Pereira, Sunil Badve. Frontiers in Oncology, section Surgical Oncology. Manuscript ID: 1176609 Impact factor 6.0
- 2023 Sneha Joshi*, Rupa Mishra*, Madhura Kulkarni*, Devaki A. Kelkar*, Keerthi Harikrishnan*, Pooja Vaid, Gomathi V, Jisha John, Anand Deshpande, Sunil Badve, Chintamani, Ravi Mehrotra, L.S. Shashidhara, Ashutosh Kothari, and Chaitanyanand Koppiker. J Proceedings of the 3rd Indian Cancer Genome Atlas Conference 2022: Biobanking to Omics: Collecting the Global Experience. CO Global Oncol 00:e2200176. *Equal contribution Impact factor 4.3
- 2022 Pooja Vaid, Aditi Khatpe, Rutvi Shah, Ruhi Reddy, Devaki Kelkar, Anirudha Puntambekar, Chaitanyanand Koppiker, LS Shashidhara, Madhura Kulkarni* "Evaluation of Tumor Infiltrating Lymphocytes (TILs) as a prognostic and predictive marker in Indian breast cancer" Diagnostic Pathology. 17 (1), 1-15. Impact factor 2.9
- 2022 Gomathi V, Devaki A. Kelkar, Susmita Mandal, Mohit Kumar Jolly, Madhura Kulkarni*. Analysis of Yes-associated protein-1 (YAP1) target gene-signature to predict a progressive subset of breast cancer. Journal of Clinical Medicine on 29th March 2022. Impact factor 4.2
- 2022 Junichi Matsuo, Naing Naing Mon, Daisuke Douchi, Akihiro Yamamura, Madhura Kulkarni, Dede Liana Heng,

- Sabirah Chen, Ying Li, Henry Yang, May Yin Lee, Wai Leong Tam, Motomi Osato, Linda Shyue Huey Chuang, Yoshiaki Ito. A Runx1-enhancer element eR1 identified lineage-restricted mammary luminal stem cells. *Stem Cells*, Volume 40, Issue 1, January 2022, Pages 112–122. Impact factor **5.6**
- 2021 Busheri L, Dixit S, Nare S, Alhat R, Thomas G, Jagtap M, Navgire R, Shinde P, Banale R, Unde R, Reddy R, Shaikh S, Konnur A, Namewar N, Bapat A, Patil A, Johari R, Kushwaha R, Kumari W, Varghese B, Deshpande P, Deshmukh C, Kelkar DA, Shashidhara LS, Koppiker CB, **Kulkarni M***. Breast cancer biobank from a single institutional cohort in an urban setting in India: Tumor characteristics and survival outcomes. **Cancer Treat Res Commun**. 2021 Jun 1;28:100409. Doi: 10.1016/j.ctarc.2021.100409. Impact factor **1.5**
- 2021 Laleh Busheri, Smeeta Nare, Rituja Banale, Ashwini Bapat, Moushumi Nagarkar, Deepali Vetale, Rebecca Joseph, Swapnil Suryawanshi, Rashmi Alhat, George Thomas, Ruth Navgire, Danish Ansari, Rohini Unde, Shahin Shaikh, Nutan Gangurde, Santosh Dixit, Beenu Varghese, Chetan Deshmukh, Devaki A. Kelkar, **Madhura Kulkarni***, Chaitanyanand B Koppiker. "Cancer Patient Management During COVID-9 Pandemic: An Audit of a Single Surgeon Unit in a COVID-hotspot." **South Asian Journal of Cancer** 10(01):39-41, Impact factor **0.33**
- 2021 Nandini A. Sahasrabuddhe, Aruna Korlimarla, **Madhura Kulkarni**, Vinay Kusuma, Jyothi S. Prabhu, Santosh Dixit, Chetan Deshmukh, T. S. Sridhar, Aditya Phatak, C B Koppiker. "NGS-based profiling of key cancer genes in Indian TNBC patients reinforces molecular heterogeneity of TNBCs." January 2021 Indian Journal of Cancer, DOI: 10.4103/ijc.IJC_432_20 Impact factor **0.22**
- 2020 Apurv Kulkarni, Devaki A Kelkar, L S Shashidhara, C B Koppiker, **Madhura Kulkarni***. Meta-analysis of prevalence and clinical features at presentation of TNBC in Indian Cohort. **JCO Glob Oncol** 2020 Jul;6:1052-1062 Impact factor **4.3**
- 2020**Madhura Kulkarni**, Nurfarhanah Bte Syed Sulaiman, Supriya Srivastava, Tuan Zea Tan, Thomas Choudary Putti, Xiaomeng Wang, Wanjin Hong, Soo Chin Lee and Yoshiaki Ito. Abstract B02: Elevated YAP expression associates with EMT, stemness, and angiogenic properties of TNBC cell lines and recurrence in TNBC patients. *Mol Cancer Res* 2020;**18**: B02–B02. doi:10.1158/1557-3125.hippo19-b02
- 2019 Chenghao Liu, Seok Ting Lim, Melissa Teo, Michelle Siying Tan, **Madhura Kulkarni**, Amy Li, Cristobal G. dos Remedios, Nguan Soon Tan, Walter Wahli, Michael Alan Ferenczi, Weihua Song, Wanjin Hong, Xiaomeng Wang. Collaborative regulation of LRG1 by TGFβ1 and PPARβ/δ modulates chronic pressure-overload-induced cardiac fibrosis. **Circulation: Heart Failure**, 2019;12(12):e005962 Impact factor **5.3**
- 2018 Qianqian He, Bijin Au, **Madhura Kulkarni**, Yang Shen, Kah J. Lim, Jiamila Maimaiti, Cheng Kit Wong, Giulia Rancati, Indrajit Sinha, Zhiyan Fu, Xiaomeng Wang, John E. Connolly and Karen C. Crasta. Chromosomal instability-induced senescence potentiates cell non-autonomous tumorigenic effects. **Oncogenesis**, Aug 15; 7(8); 62 Impact factor **4.7**
- 2018 Rekha Jakhar, Monique N.H. Luijten, Alex X.F. Wong, Bing Cheng, Suat Neo, Bijin Au, **Madhura Kulkarni**, Kah J. Lim, Jiamila Maimaiti, Han C. Chong, Elaine H. Lim, Tee B. K. Tan, Kong W. Ong, Yirong Sim, Jill S. L. Wong, James B.K. Khoo, Juliana T.S. Ho, Ke Guo1, Boon T. Chua, Indrajit Sinha, Xiaomeng Wang John E. Connolly, Jayantha Gunaratne and Karen C. Crasta. Autophagy governs pro-tumourigenic effects of mitotic slippage-1 induced senescence. **Molecular Cancer Research**, Nov;16(11):1625-1640 Impact factor **6.2**
- 2018 **Madhura Kulkarni,** Tuan Zea Tan, Nurfarhanah Sulaiman, John Lamar, Prashali Bansal, Jianzhou Cui, Yiting Qiao, Yoshiaki Ito. RUNX1 and RUNX3 protect against YAP-mediated EMT, stem-ness and shorter survival outcomes in breast cancer. **Oncotarget**. 2018;9:14175-14192. Impact factor **5.2**
- 2018 Vaidehi Krishnan, Yu Lin Chong, Tuan Zea Tan, **Madhura Kulkarni**, Muhammad Bakhait Bin Rahmat, Lavina Sierra Tay, Haresh Sankar, Doorgesh Jokhun, Amudha Ganesan, Linda Shyue Huey Chuang, Dominic Voon, G V Shivashankar, Jean Paul Thiery, and Yoshiaki Ito. TGF-β promotes genomic instability upon RUNX3 deficiency. **Cancer Research** 2018 Jan 1;78(1):88-102 Impact factor **9.3**
- 2017 Gandhi Theerthagiri, **Madhura Kulkani**, Ho Sze Yuan, Adrian Boey, Edmond Wei Min Chua, Veluchamy
 A. Barathi, Tom J. Carney, Xiaomeng Wang and Wanjin Hong. Cavin-2 regulates the activity and stability of eNOS in angiogenesis. **J Bio Chem** Oct 27;292(43):17760-17776. Impact factor **4.6**
- 2012 **Madhura Kulkarni,** Shakes DC, Guevel K, Smith Harold E. SPE-44 implements sperm cell fate. **PLoS Genetics**. 2012 Apr;8(4):e1002678. Impact Factor **9.2**
- 2011 Peter Mulligan, Fajun Yang, Luisa Di Stefano, Jun-Yuan Ji, Jian Ouyang, Joy L Nishikawa, Qun Wang, **Madhura Kulkarni**, S. Hani Najafi-Shoushtari, Raul Mostoslavsky, Steven P Gygi, Grace Gill, Nicholas J Dyson, Anders M Näär. A SIRT1-LSD1 Co-repressor Complex Regulates Notch Target Gene Expression and Development. **Molecular Cell.** 2011 Jun 10;42(5):689-99. Impact Factor **14.2**
- 2011 Alexander G. Milbradt, **Madhura Kulkarni***, Tingfang Yi*, Koh Takeuchi, Zhen-Yu J. Sun, Rafael Luna, Philipp Madhura Kulkarni

- Selenko, Anders M. Näär and Gerhard Wagner. Structure of the VP16 Transactivator Target in ARC/Mediator. **Nat Struct Mol Biol.** 2011 Apr;18 (4):410-5. Impact Factor **12.7**
- 2009 **Madhura Kulkarni**¹, Antonio Del-Castillo¹, and Harold Smith. Regulation of sperm gene expression by the GATA factor ELT-1. **Dev. Biol.** 2009 July 8;doi:10.1016/j.ydbio.2009.06.044. (¹Shared Lead author) Impact Factor **4.1**
- 2008 **Madhura Kulkarni** and Harold Smith. E1 Ubiquitin-Activating Enzyme UBA-1 plays multiple roles throughout *C. elegans* development. **PLoS Genetics**. 2008 July 18;4(7):e1000131. Impact factor **9.2**
- 2004 Anindya Ghosh-Roy, **Madhura Kulkarni**, Vikash Kumar, Seema Shirolikar, and Krishanu Ray. Cytoplasmic Dynein—Dynactin complex is required for spermatid growth but not axoneme assembly in *Drosophila*. **Mol. Biol. Cell.** 2004 Vol. 15, Issue 5, 2470-2483. Impact factor **5.7**
- 2001 **Madhura Kulkarni**, S. Dighe, A. Sawant, P. Oswal, K. Sahsrabuddhe, A. Patwardhan Institutions: Biodiversity Hotspots in Urban Areas. 2001 (An extended abstract published in the proceedings of International Conference on Tropical Ecosystems at Bangalore, India.)

Book Chapters

2023 Indocyanine Green (ICG) Dye: An Essential Element in the Breast Cancer Management Tool Kit. Chapter 9, in Sentinel Node Biopsy in Breast Cancer; Springer Nature, ISBN:978-81-322-3992-5. C B Koppiker, **Madhura Kulkarni**, Devaki Kelkar, Sneha Joshi.

Invited Lectures and Talks

- 2024 Invited speaker at "Regional Symposium 2024" with the theme "Symphony of Biology, Data, Digital Systems, and Automation." May 31, 2024 at Tata Memorial Hospital, Mumbai, India, Organised by BBIF.
- 2024 Invited lecture and interaction with the scientists at Hawaii Cancer Centre, at Hawaii on "Translational Breast Cancer Research" on 20th May.
- 2024 Invited speaker at "Accelerating Biology 2024: Precision Medicine" Feb 5-Mar 7, organized by C-DAC Pune.
- 2024 Invited interlocutor for a webinar, "Academia Clinician Partnership," organized by IndiaBiosciences. Jan19th.
- 2023 Invited speaker at 2nd Biobanking Masterclass at Rajiv Gandhi Cancer Institute. November 28-29.
- 2023 Talk at the 9th International Conference on Hippo Signaling in Singapore. November 1-3
- 2023 Invited speaker at 4th ICGA conference at IISER Pune October 5-8.
- 2023 Speaker as part of 2020 India Cohort at WomenLift Health India's Lift Off event in Dehradun, March 14-17.
- 2023 Invited speaker at "Accelerating Biology 2023 Discovery to Delivery" during Feb 28-Mar 2, organized by C-DAC Pune
- 2023 Invited speaker at "Workshop on Data Science in Healthcare for Education and Research", organized by Symbiosis Statistical Institute with Massachusetts General Hospital, on Feb 12.
- Nominated lecturer for teaching Cell and Molecular Biology to Onco-Clinicians under 12 week course 'Research Training Program for Clinicians and Residents' (RT-PCR) 5th Jan 2023
- Nominated as a resource person to speak at the 3rd ICGA-Conference 2022, 13th-14th January, 2022 organized by ICGA and Prashanti Cancer Care Mission Pune.
- Invited guest lecture for Cancer Biology course at NCCS Pune on "Signaling pathways and therapeutics" January 4th, 2022.
- 2021 Invited as a resource person to contribute to a tumor board as a part of an eLearning resource for medical graduates organized by ASCO.
- 2021 Invited guest lecture for Cancer Biology course at NCCS Pune on "Signaling pathways and therapeutics" January 27th, 2021.
- Invited talk "Analysis of Cancer Signatures" at Conference organized by Women in Data Science (WiDS) Pune Feb 29th, 2020. https://www.youtube.com/watch?v=_9XCCvyNt8A
- 2019 Invited guest lecture "Cancer Biology: Signaling pathways and therapeutics" at NCCS Pune. Nov. 15th, 2019
- 2019 Invited talk on "Molecular heterogeneity in TNBC in an Indian Cohort" at 1st TCGA-themed conference and workshop on multi-omics studies in Cancer'. Organized by CTCR: Prashanti Cancer Care Mission at IISER Pune, September 21-25th 2019.
- 2019 Invited speaker at 1st International Conference on Molecular Medicine, 'from bench to bedside', organized by Amity University Gurgaon, August 28-29, 2019.

- 2019 Invited talk "Practical Applications in Breast Cancer Management" at Workshop on Molecular Oncology of Breast Cancer for Surgeons, organized by Prashanti Cancer Care Mission at IISER Pune. Feb 16-18, 2019
- 2019 Invitation as a speaker for 3rd PAN-IIT Biotech conference on Cancer Precision Medicine and Personalized Therapeutics, at IIT- Chennai India. Jan 31– Feb 2 2019

Conferences, Workshops, and courses organized.

- 2023 Lead Member of the organizing team for 4th ICGA conference organised by ICGA October 5-8.
- 2023 Core member in designing and executing a basic molecular biology course for onco-clinicians "Research & Training Program for Clinicians and Residents" (RT-PCR). Module 1, Jan April
- 2023 Breast Oncoplasty Workshop organized by Prashanti Cancer Care Mission at Corinthians Pune India on 3-5 Feb.
- 2022 Breast Oncoplasty Workshop organized by Prashanti Cancer Care Mission at IISER Pune India on 3-5 June.
- Lead Member of the organizing team and resource person for 3rd ICGA virtual conference organised by ICGA and Prashanti Cancer Care Mission, Jan 13-14.
- Member of the organizing team and resource person for Mutiomics studies in Cancer in collaboration with The Cancer Genome Atlas (TCGA) organized by CTCR: Prashanti Cancer Care Mission at IISER Pune. Dec 3-5 2020.
- 2020 Organizer for Virtual lectures and Workshop on Breast Oncoplasty, organized by Prashanti Cancer Care Mission via Zoom. May 2020 and November 2020.
- 2019 Organizer for Workshop on Breast Oncoplasty, organized by Prashanti Cancer Care Mission at Jehangir Hospital, Pune India on 9-10 November 2019
- 2019 Member of the organizing team and resource person for Multi-Omics Studies in Cancer Learnings from The Cancer Genome Atlas (TCGA) organized by CTCR: Prashanti Cancer Care Mission at IISER Pune. Sept 21-25, 2019
- 2019 Organizer for Workshop on Molecular Oncology of Breast Cancer for Surgeons organized by Prashanti Cancer Care Mission at IISER Pune. February 16-18, 2019
- 2018 Organizing Committee for the research track at 4th Indo-British Advanced Master Class in Oncoplastic Breast Surgery & Breast Cancer Symposium at IISER Pune. August 17-19, 2018.
- 2017 Organizer for iCiAsT 2017, International conference at LKC-School of Medicine, Singapore
- 2016 Organizer for two day talk series at LKC-School of Medicine, NTU Singapore

Conferences and Workshops attended.

- 2023 SABC, San Antonio Breast Cancer Symposium. USA. Selected for poster presentation, December 5-8.
- 2023 9th International Conference on Hippo Signaling in Singapore. November 1-3
- 2022 Women Leading Change in Health And Science In India, Conference organised by Women Lift Health and BIRAC DBT. Dec 6th 2022. New Delhi. India
- 2022 **Selected** for **poster presentation** on "TILs in TNBC" at 5th International Cancer Research Symposium. 2 4 November, Lyon, France.
- 2022 **Selected** for **poster presentation** on "Molecular profiling of TNBC in an Indian Cohort" at Cancer Congress, EACR June 19-23rd, Seville, Spain.
- 2022 **Selected** for **poster presentation** on 'Setting up a fresh frozen biobank' by ISBER, 16-20 May, Atlanta USA.
- 2021 "Virtual Conference on Bioinformatics in Cancer" organized by EACR, May 18-19 2021
- 2021 **Selected** for **poster presentation** at AACR Special Conference on The Evolving Tumor Microenvironment in Cancer Progression. Virtual Conference 11-12 January 2021
- 2020 Hippo Signaling 2020 Virtual Meeting organized by A*STAR Singapore and Monash University, Australia. 18-19 November 2020
- 2020 AACR Frontiers in Cancer Science 2020 Virtual Conference, Organised by NUS, Singapore 2-6 November 2020
- 2019 Selected to present a poster at **AACR** Special Conference on The Hippo Pathway: Signaling, Cancer, and Beyond, being held from May 8-11, 2019 at the Marriott Marquis San Diego Marina in San Diego, California. Supported by **DST-SERB travel grant**.
- 2019 Selected to attend as a Young Investigator and present a poster at Young Investigator's meeting YIM 2019 at Guwahati, India. March 6-11, 2019.
- 2019 **Selected** for **poster presentation** at National Conference on Cellular and Molecular Basis of Cancer, University Pune. Feb 7-9, 2019.
- 2019 Selected for poster presentation at 7th International Conference on Molecular Signaling ICMS-2019 University

Madhura Kulkarni

- Pune. Jan 23-25, 2019.
- 2018 **Madhura Kulkarni**, Tan Tuan Zea, Supriya Srivastava, Thomas Choudhary Putti, Lee Soo Chin, Yoshiaki Ito. Hippo Signaling in Breast Cancer Progression. Poster presented at International meeting organized by InSDB at IIT Kanpur. December 5-11, 2018
- 2018 Contribution to the lecture series by the Nobel laureate Professor Sydney Brenner on the history of Molecular Biology got published as a book: "In the Spirit of Science" on 7th Nov 2018 in Singapore.
- 2018 **Selected** for **Oral presentation** at 14th INDO- AUSTRALIAN BIOTECHNOLOGY CONFERENCE at ACTREC, India. October 22-23, 2018. **Madhura Kulkarni**, Tan Tuan Zea, Supriya Srivastava, Thomas Choudhary Putti, Lee Soo Chin, Yoshiaki Ito. Hippo Signaling in Breast Cancer Progression.
- 2018 **Madhura Kulkarni**, Tan Tuan Zea, Supriya Srivastava, Thomas Choudhary Putti, Lee Soo Chin, Yoshiaki Ito. Hippo Signaling in Breast Cancer Progression. Poster presented at 4th INDO-BRITISH BREAST CANCER SYMPOSIUM at IISER, Pune. August 17-19, 2018.
- 2017 Invited contributor and an attendee for 'Sydney Brenner on the history of Molecular Biology' lecture series at PARALIMES, Singapore. Converted into a book
- 2017 **Drug Discovery workshop** on "How to conduct Translational R&D theory and practice" organized by ETC, Singapore.
- 2017 Shortlisted for a **talk** at LKC School of Medicine, retreat, Singapore. **Madhura Kulkarni**, Nurul Azizah Binte Johri, Michelle Tan Siying, Xiaomeng Wang. LRG1 regulates EC- SMC interaction via TGFβ-mediated expression of miR143 and miR145.
- 2017 NCIS Annual Research Meeting, 2017, Singapore. **Madhura Kulkarni**, Nurfarhanah Bte Syed Sulaiman, Tan Tuan Zea, Xiaomeng Wang, Wanjin Hong, Lee Soo Chin, Yoshiaki Ito. High YAP expression associates with angiogenic and metastatic properties of triple negative breast cancer.
- 2017 **Research in Excellence Award** at iCiAsT 2017 international conference, Singapore. **Madhura Kulkarni**, Nurul Azizah Binte Johri, Michelle Tan Siying, Xiaomeng Wang. LRG1 regulates EC- SMC interaction via TGFβ-mediated expression of miR143 and miR145.
- 2016 **Madhura Kulkarni**, Nurfarhanah Bte Syed Sulaiman, Lee Soo Chin, Yoshiaki Ito. Elevated YAP expression is required for EMT, stem-ness and angiogenic properties of triple negative breast cancer cell lines. NCIS Annual Research Meeting (NCAM), 2016, Singapore.
- 2015 **Best Poster Award.** NCIS Annual Research Meeting (NCAM), 2015, Singapore. **Madhura Kulkarni**, Tan Tuan Zea, Supriya Srivastava, Henry Yang, Thomas Choudary Putti, Lee Soo Chin, Yoshiaki Ito. YAP based prognostic signature to predict metastatic potential of triple negative breast cancer.
- 2015 EMBO Gold medalist symposium. 2015, Singapore. **Madhura Kulkarni**, Nurul Azizah Binte Johri, Sze Yuan Ho, Kai Hong Chew, Xiaomeng Wang. LRG1, a novel therapeutic target for diabetes associated vascular complications.
- 2013 **Outstanding Poster Award**. Frontiers in Cancer Science. Singapore. **Madhura Kulkarni**, Qiao Yitting, Yoshiaki Ito. RUNX proteins limit oncogenic potential of YAP through PY-WW interaction.
- 2013 **Poster Award** at Keystone Symposium. The Hippo Tumor Suppressor Network: From Organ Size Control to Stem Cells and Cancer, Monterey, CA. **Madhura Kulkarni**, Qiao Yitting, Yoshiaki Ito. Interplay of YAP and RUNX3 in modulating transformation phenotypes.
- 2011 Madhura Kulkarni and Yoshiaki Ito. Hallmarks and Horizons of Cancer, EPFL, Switzerland.
- 2007 **Madhura Kulkarni** and Harold Smith. Role of ubiquitin-activating enzyme (E1) in *Caenorhabditis elegans* development. Poster presented at ASCB 47th annual meeting. Washington DC.
- 2007 **Madhura Kulkarni** and Harold Smith. Multiple roles for ubiquitination in C. elegans. Poster presented at 16th International *C. elegans* meeting. UCLA.
- 2006 Krishanu Ray, Chagede R, **Madhura Kulkarni** and Anindya Ghosh-Roy. DLC1 is required for fusomes assembly in male germ line cysts of *Drosophila*. Poster at British Society for Cell Biology at York, UK
- 2005 **Madhura Kulkarni** and Harold Smith. Phenotypic characterization of *spe-32* (*uba-1*) in *Caenorhabditis elegans*. Poster presented at 15th International *C. elegans* meeting. UCLA.

Posters presented by students.

2023 Gomathi V, Dimple Adiwal, Aditi Khatpe, Pooja Vaid, Devaki Kelkar, Rutvi Shah, Rohini Unde, Anirudha Puntambekar, L. S. Shashidhara, Chaitanyanand Koppiker and **Madhura Kulkarni*** "YAP as a prognostic Markers for Triple-negative Breast Cancer in Indian Cohort." 12-16 Jan.42nd IACR Conference at ATCREC Mumbai 2023

- 2023 Shruti Bhardiya, Sigma Pradhan, Gomathi V, LS Shashidhara and Madhura Kulkarni. "Synergistic effect of YAP and HER2 growth factor receptor signalling in mammary epithelial cell line." 12-16 Jan. 42nd IACR Conference at ATCREC Mumbai 2023
- 2023 Pooja Vaid, Pranali Kanase, Shweta Kadu, Diksha Yadav, Devaki Kelkar, Chaitanyanand Koppiker, L S Shashidhara and Madhura Kulkarni. "Triple-negative breast cancer tumor microenvironment profiled for immune infiltrates stratified for treatment response." 12-16 Jan. 42nd IACR Conference at ATCREC Mumbai 2023
- 2022 Laleh Busheri, Pranali Kanase, Diksha Yadav, Shweta Kadu, Jisha John, Danish Ansari, Rituja Banale, Rashmi Alhat, George Thomas, Ruth Navgire, Smeeta Nare, Chetan Deshmukh, Devaki A. Kelkar, Madhura Kulkarni and Chaitanyanand B. Koppiker. A Prospective Breast Cancer Biobank: From a Single Institutional Cohort, Organised by ISBER, at Atlanta USA, 16-20 May 2022
- 2020 Pooja Vaid, Attended Virtual Conference 2nd Immuno-Oncology India **Congress** 2020, Organised by TMC Kolkata. October 30-November 1 2020.
- 2019 Pooja Vaid, Aditi Khatpe, Rutvi Shah, Ruhi Reddy, Devaki Kelkar, Anirudha Puntambekar, Chaitanyanand Koppiker, LS Shashidhara, **Madhura Kulkarni**. Evaluation of Tumor Infiltrating Lymphocytes (TILs) as a prognostic and predictive marker in Indian breast cancer. Presented at 1st TCGA-themed conference and workshop on Multiomics studies in Cancer'. Organized by CTCR: Prashanti Cancer Care Mission at IISER Pune, September 21-25 2019.
- 2019 Dimple Adiwal, Aditi Khatpe, Pooja Vaid, Devaki Kelka², Rutvi Shah, Rohini Unde, Anirudha Puntambekar, L. S. Shashidhara, Chaitanyanand Koppiker and Madhura Kulkarni. Prognostic Markers for Triple-negative Breast Cancer in Indian Cohort. Best Poster Award at 1st TCGA-themed conference and workshop on Multi-omics studies in Cancer' at IISER Pune, September 21-25 2019.
- 2019 Dimple Adiwal, Aditi Khatpe, Pooja Vaid, Devaki Kelka², Rutvi Shah, Rohini Unde, Anirudha Puntambekar, L. S. Shashidhara, Chaitanyanand Koppiker and **Madhura Kulkarni**. Prognostic Markers for Triple-negative Breast Cancer in Indian Cohort. Presented at 1st International Conference on Molecular Medicine, 'from bench to bedside', organized by Amity University Gurgaon, August 28-29 2019.
- 2019 Pooja Vaid, Aditi Khatpe, Rutvi Khatpe, Ruhi Reddy, Anirudha Puntambekar, Devaki Kelkar, LS Shashidhara, Chaitanyanand Koppiker and Madhura Kulkarni. Correlation of Tumor infiltrating Lymphocytes (TILs) with NACT response in breast cancer in India. Presented at 1st Immuno-Oncology India Congress 2019, ACTREC 15-17 March 2019.
- 2018 Rutvi Shah, Aditi Khatpe, Pooja Vaid, **Madhura Kulkarni**. Identifying Novel Prognostic markers for Breast Cancers. Posterpresented at International meeting organized by InSDB at IIT Kanpur. December 5-11, 2018

Students Supervised and their trajectory

2024	Four final Year MS students and four interns from IISER Pune, one intern from DY Patil, Pune
2023	Five Master interns from IISER Pune
2022	Two Master interns from IISER Pune
2021	Three Masters Student from University of Ahmedabad, IISER Pune and MSU Baroda for year internship.
2020-2024.	One PhD student from Ashoka University under so-supervision with Prof. L S Shashidhara. Graduated.
2020	Three Master Students from Amity University Noida, Banaras Hindu University and Baroda University.
2019-2020	Three Master students from IISER Pune and IISER Kolkata, Amity University, Noida.
2019	Two interns from BS-MS course at Baroda University, for two months each.
2018	One Masters Interns from Ahmedabad University for one year, at CTCR: IISER Pune and PCCM
2018	Two Project students at CTCR: IISER Pune and PCCM
2017	URECA undergrad students from School of Biological School, NTU. Melissa Teo.
2015-2016	LKC-Medicine medical student, Charmaine for research project term
2015-2017	LKC-Medicine graduate student Rui Ning
2014-2015	URECA undergrad students from NTU and High school students from MoE school, Singapore.
2013	Research intern from BITS Pilani, India, Prashali Bansal, at CSI.
2011-2013	Graduate student at Cancer Science Institute, Yiting Qiao.
2013-2014	Final year project of Ngee Ann Polytechnic, Lim Yu Han Charell and Nai Wen Xin Charell, at CSI.
2012-2013	Final year project of NTU undergraduate student, Bakhait Muhammad, at CSI.
2009	High school intern from local public school, at MGH Boston.
	·

REFERENCES:

Dr Harold Smith

Head, Genomics Core

The National Institute of Diabetes and Digestive

and Kidney Diseases Bethesda, USA

Phone: +1-301-367-3416 Email: harold.smith@nih.gov

Dr Stephen Mount

Associate Professor Department of Cell Biology and Molecular Genetics

University of Maryland, College Park. Phone: +1-

301-405-6934

Email: smount@umd.edu

Dr Anders Näär

Professor of Metabolic Biology

Vice Chair, Dept. of Nutritional Sciences &

Toxicology

University of California, Berkeley

Berkeley, CA 94720

Email: naar@berkeley.edu

Dr Yoshiaki Ito

Senior Principal Investigator, Cancer Science

Institute, Singapore Phone: +65-65162242 Email: csiitoy@nus.edu.sg

Dr Wanjin Hong

Professor & Research Director

Institute of Molecular and Cell Biology (IMCB)

Email: mcbhwj@imcb.a-star.edu.sg
Chief Business Development Officer

Biomedical Research Council (BMRC), A*STAR

Email: hong wanjin@hq.a-star.edu.sg

Mobile:+65-96981288

Dr Marius Sudol

Adjunct Faculty

Icahn School of Medicine at Mount Sinai

Department of Medicine One Gustave Levy Place New York, NY 10029, USA

Academic Email: marius.sudol@mssm.edu
Personal Email: marius.sudol@gmail.com

Phone: +1 (570) 284 7864

Prof. L S Shashidhara

Director,

National Center for Biological Science (NCBS)

Bangalore, India

JC Bose National Research Fellow

Associate Member, EMBO Professor in Biology

Mobile: +91-9823432303

Email: lsshashidhara@ncbs.res.in

Dr Sharmila Bapat

Director – Additional Charger National Center for Cell Sciences Savitribai Phule Pune University Campus Ganeshkhind Road, Pune – 411007

Mobile: +91-9921512020

Email: sabapat@nccs.res.in

Dr Sudeep Gupta

Director, Tata Memorial Centre Dr E Borges Marg, Parel, Mumbai - 400 012.

Tel: 022-24139318

Email: director.tmc@tmc.gov.in, guptas@tmc.gov.in

Prof. S. V. Chiplunkar

Former-Director,

Advanced Centre for Treatment, Research &

Education in Cancer (ACTREC)

Tata Memorial Centre

Kharghar, Navi Mumbai 410210

Email: shubhachiplunkar@gmail.com

Dr C B Koppiker

Director and OncoSurgeon Prashanti Cancer Care Mission and Jehangir Breast Health Clinic, Pune

Email: koppiker@gmail.com

Dr Krishanu Ray

Director,

National Brain Research Centre (NBRC),

Manesar, India

Phone: +919967979589 Email: krishanu@tifr.res.in