

Brief CV: Dr. Rahul Thorat

I am Rahul Thorat, post graduate in Veterinary Pathology from MAFSU, Nagpur, Maharashtra, having 13 years of experience in the field of Laboratory Animal Science. I am currently employed in the laboratory animal facility of ACTREC, Navi Mumbai, Maharashtra, as a Scientific Officer 'D'. Prior to ACTREC, I served two corporate industries in the capacity of in-house veterinarian. As a laboratory animal veterinarian & Scientists, my focus is on laboratory animal care in its all aspects, especially in the field of Assisted Reproductive Technologies like embryo cryopreservation, & Generation of Genetically Engineered Mouse Models. We have successfully established mouse embryo cryo-bank at ACTREC. As a result, I have been honored *International young scientists* award by JALAS, Japan. Being a veterinarian, I am a part of many collaborative research projects for doing *in vivo* cancer experiments.

An expert in the field of laboratory animal science, AAALAC International, USA, honored me two consecutive terms as an *ad-hoc specialist (Site Visitor)* in India. Also, I am representing to CPCSEA as a nominee on various private & government IAEC's.

I have imparted several trainings, delivered talks and attended national & international conferences.

Currently undergoing 6 months training program for generation of transgenic mice at Department of Genetics, University of Alabama, Birmingham, USA having objective to generate transgenic mice & provide training to Indian laboratory animals scientists after returning back to India.

Place:

Transgenic and Genetically Engineered Models (TGEMs) Core Facility,
Department of Genetics,
University of Alabama,
Birmingham, USA

Date: 9th January, 2019

Encl: List of Publications during last FIVE years.

Rahul Thorat

Publications: (2014-2019)

1. Prajish Iyer, Shailesh V Shrikhande, Malika Ranjan, Asim Joshi, Nilesh Gardi, Ratnam Prasad, Bhasker Dharavath, **Rahul Thorat**, Sameer Salunkhe, Bikram Sahoo, Pratik Chandrani, Hitesh Kore, Bhabani Mohanty, Vikram Chaudhari, Anuradha Choughule, Dhananjay Kawle, Pradip Chaudhari, Arvind Ingle, Shripad Banavali, Poonam Gera, Mukta R Ramadwar, Kumar Prabhash, Savio George Barreto, Shilpee Dutt, Amit Dutt (2018) ERBB2 and KRAS Alterations Mediate Response to EGFR Inhibitors in Early Stage Gallbladder Cancer **Int J Cancer**. doi: 10.1002; ijc.31916. [Epub ahead of print]
2. Tiwari R, Sahu I, Soni BL, Sathe GJ, Thapa P, Patel P, Sinha S, Vadivel CK, Patel S, Jamghare SN, Oak S, **Thorat R**, Gowda H, Vaidya MM. (2018) Depletion of Keratin 8/18 modulate oncogenic potential by governing multiple signaling pathways. **FEBS J**; 285 (7):1251-1276.
3. **Rahul Thorat** and Arvind Ingle. (2017) Cryopreservation of mouse embryo by using vitrification method. **Journal of lab. Animal sci.** 7-12
4. D'Mello C, Sawant S, Alam H, Gangadaran P, Mogre S, Tiwari R, D'Souza Z, Narkar M, **Thorat R**, Patil K, Chaukar D, Kane S, Vaidya MM (2017) Vimentin regulates differentiation switch via modulation of keratin 14 levels and their expression together correlates with poor prognosis in oral cancer patients **PLoS One**; 12(2); e0172559
5. Vishal SS, Tilwani S, **Thorat R**, Dalal SN. (2017) Generation of mice with tissue specific transgene expression using sperm mediated gene transfer. **Int J Pharm Biosci**; Volume 8; 324-329
6. Chandrani P, Prabhash K, Choughule A, Prasad R, Sethunath V, Ranjan M, Iyer P, Aich J, Dhamne H, Iyer DN, Upadhyay P, Mohanty B, Chandna P, Kumar R, Joshi A, Noronha V, Patil V, Ramaswamy A, Karpe A, **Thorat R**, Chaudhari P, Ingle A, Dutt A. (2016) Drug-sensitive FGFR3 mutations in lung adenocarcinoma. **Ann Oncol.** 28: 3; 597-603 PMID: 27998968
7. Mukhopadhyay A, Sehgal L, Bose A, Gulvady A, Senapati P, **Thorat R**, Basu S, Bhatt K, Hosing A, Balyan A, Borde L, Kundu T, Dalal SN. (2016) 14-3-3 γ prevents centrosome amplification and neoplastic progression. **Sci. Reports.** 6: 26580, PMID: 27253419
8. Hudlikar RR, Venkadakrishnan V, Kaushal RK, **Thorat RA**, Kannan S, Ingle AD, Desai S, Maru GB, Mahimkar MB. (2017) Polymeric black tea polyphenols (PBPs) inhibit benzo(a)pyrene and 4-(methylnitrosamino)-1-(3-pyridyl)-1-butanone induced lung carcinogenesis potentially through down-regulation of p38 and Akt phosphorylation in A/J mice. **Mol Carcinog.** 56(2): 625-640, PMID: 27377358
9. S.K. More, N. Srinivasan, S. Budnar, S. Bane, A. Upadhyay, **R. Thorat**, A. Ingle, S. Chiplunkar, R.D. Kalraiya, (2015) N-glycans and metastasis in galectin-3 transgenic mice, **Biochemical and Biophysical Research Communications**, doi: 10.1016/j.bbrc.2015.03.030.

10. Basu S, **Thorat R**, Dalal SN (2015) MMP7 Is Required to Mediate Cell Invasion and Tumor Formation upon Plakophilin3 Loss. **PLoS ONE** 10(4): e0123979. doi:10.1371/journal.pone.0123979
11. Kedar Yogi, Epari Sridhar, Naina Goel, Rakesh Jalali, Atul Goel, Aliasgar Moiyadi, **Rahul Thorat**, Pooja Panwalkar, Atul Khire, Archya Dasgupta, Prakash Shetty, and Neelam Vishwanath Shirsat (2015) MiR-148a, a microRNA upregulated in the WNT subgroup tumors, inhibits invasion and tumorigenic potential of medulloblastoma cells by targeting Neuropilin 1 Accepted for publication **Oncoscience** 2(4): 334-348, PMID: 26097868
12. Lalit Sehgal, Amitabha Mukhopadhyay, Anandi Rajan, Nileema Khapare, Mugdha Sawant, Sonali S Vishal, Khyati Bhatt, Srikant Ambatipudi, Noelle Antao, Hunain Alam, Mansa Gurjar, Srikanta Basu, Lalit Borde\$, Amol S. Hosing, Milind M Vaidya, **Rahul Thorat**, Ullas Kolthur-Seetharam\$ and Sorab N. Dalal. (2014) 14-3-3 γ mediated transport of plakoglobin to the cell border is required for the initiation of desmosome assembly in vitro and in vivo. **Journal of Cell Science**; 127, 2174–2188 doi:10.1242/jcs.125807