

Riyaz Basha, PhD
Pediatrics
Texas College of Osteopathic Medicine
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Area of Expertise

Dr. Basha's research expertise is in the field of experimental therapeutics and cancer. His research focuses on examining aberrant expression of molecular markers associated with aggressive disease and poor prognosis for a variety of human malignancies.

Ongoing research focuses on testing the combination of novel investigational agents with other standard therapeutic options (chemotherapy and/or radiation), and understanding the potential molecular pathways associated with proposed combinations. Novel therapeutic strategies involving small molecules, herbal products, and their analogs are under testing through rigorous pre-clinical screening using models for leukemia, pancreatic, ovarian, prostate, and central nervous system cancers.

Qualifications

BS in Biology and Chemistry, Sri Venkateswara University

MS in Molecular Physiology, Sri Venkateswara University

PhD in Neurobiology, Sri Venkateswara University

Recent Publications

Contemporary clinical trials in pancreatic cancer immunotherapy targeting PD-1 and PD-L1

Nagaraju, G. P., Malla, R. R., Basha, R. & Motofei, I. G., Nov 2022, In: *Seminars in Cancer Biology*. 86, p. 616-621 6 p.

Analysis of the mutation dynamics of SARS-CoV-2 genome in the samples from Georgia State of the United States

Ahmad, W., Ahmad, S. & Basha, R., 20 Oct 2022, In: *Gene*. 841, 146774.

Association of specificity protein 1 with hepatocellular carcinoma

Iloani, N., Hafeez, A., Bao, S., Dulemba, V., Lambring, C., Sankpal, U. T. & Basha, R., 1 Jan 2022, *Theranostics and Precision Medicine for the Management of Hepatocellular Carcinoma, Volume 2: Diagnosis, Therapeutic Targets, and Molecular Mechanisms*. Elsevier, p. 185-193 9 p.

Medical student research opportunities: a survey of osteopathic medical schools in the United States

Hamby, T., Wilson, D. P., Bui, P., Lowery, J. & Basha, R., 2022, (Accepted/In press) In: *Journal of Osteopathic Medicine*.

Prevalence of elevated liver enzymes and their association with type 2 diabetes risk factors in children

Lin, V., Hamby, T., Das, S., Chatrath, A., Basha, R., Fulda, K. G. & Habiba, N., 1 Jun 2021, In: *Journal of Pediatric Endocrinology and Metabolism*. 34, 6, p. 707-711 5 p.

Mentors' experiences in an osteopathic medical student research program

Hamby, T., Paul Bowman, W., Wilson, D. P. & Basha, R., 1 Mar 2021, In: *Journal of Osteopathic Medicine*. 121, 4, p. 385-390 6 p.

Occupational health and safety measures of multifunctional nanoparticles in biomedical research and beyond

Nair, M., Chandra, A., Basha, R., Gayathri, V., Moncus, M., Orimoloye, H., Kalarikkal, N., Soomro, Z. & Vishwanatha, J. K., 1 Jan 2021, *Fundamentals and Properties of Multifunctional Nanomaterials*. Elsevier, p. 571-609 39 p.

Understanding the Interplay Between Health Disparities and Epigenomics

Mancilla, V. J., Peeri, N. C., Silzer, T., Basha, R., Felini, M., Jones, H. P., Phillips, N., Tao, M. H., Thyagarajan, S. & Vishwanatha, J. K., 20 Aug 2020, In: *Frontiers in Genetics*. 11, 903.

Next generation sequencing and functional pathway analysis to understand the mechanism of action of copper-tolfenamic acid against pancreatic cancer cells

Hurtado, M., Prokai, L., Sankpal, U. T., Levesque, B., Maram, R., Chhabra, J., Brown, D. T., Gurung, R. K., Holder, A. A., Vishwanatha, J. K. & Basha, R., Feb 2020, In: *Process Biochemistry*. 89, p. 155-164 10 p.

Colorectal cancer: An emphasis on factors influencing racial/ethnic disparities

Sharma, I., Kim, S., Sridhar, S. & Basha, R., 2020, In: Critical Reviews in Oncogenesis. 25, 2, p. 151-160 10 p.

Sponsored Projects

2/2 Langston University-UNTHSC Partnership for Cancer Research and Education Cancer Research

Basha, R. & Prokai, L.

NCI: National Cancer Institute

20/09/18 → 31/08/22

2/2 Langston University-UNTHSC Partnership for Cancer Research and Education Cancer Research

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Enhancing Therapeutic Efficacy in Ewing sarcoma: Preclinical Study

Basha, R.

Cook Children's Health Care System

1/09/15 → 28/02/18

Novel Combination Therapy for Pancreatic Cancer: Translational Research Project

Basha, R.

The Shirley E. Noland Foundation, Inc.

6/12/13 → 5/06/15

Osteopathic Scholars in Cancer Research (OSCR)

Vishwanatha, J., Smith, M. & Basha, R.

Cancer Prevention & Res Inst of TX

1/03/17 → 28/02/22

Pilot Project to Study the Combination of Curcumin and Tolfenamic Acid in Pancreatic Cancer

Basha, R.

The Shirley E. Noland Foundation, Inc.

1/11/15 → 31/10/18

Texas Center of Minority Health, Education, Research and Outreach - Admin/Development Core

Vishwanatha, J., Jones, H., He, J., Basha, R. & Nandy, K.

NIMHD: Natl Institute on Minority Health

23/09/17 → 31/05/22

Texas Center of Minority Health, Education, Research and Outreach - Admin/Development Core

Vishwanatha, J., Jones, H., He, J., Basha, R., Nandy, K., Mallet, R., Krishnamoorthy, R. & Simecka, J.

NIMHD: Natl Institute on Minority Health

23/09/17 → 31/05/22

Texas Center of Minority Health, Education, Research and Outreach - Admin/Development Core

Vishwanatha, J., Mallet, R., Krishnamoorthy, R., Jones, H., Fulda, K., He, J., Basha, R. & Nandy, K.

NIMHD: Natl Institute on Minority Health

23/09/17 → 31/05/22

Texas Minority Health, Education, Research, and Outreach (Texas MiHERO)

Vishwanatha, J., Knebl, J., Raines-Milenkov, A., Cunningham, T., He, J., Spence, E., Clay, P. & Basha, R.

NIMHD: Natl Institute on Minority Health

14/09/17 → 30/06/22

The Role of Tolfenamic Acid in the Inhibition of Pancreatic Cancer In Vitro

Basha, R.

Intramural Research(UNTHSC)

1/10/14 → 30/09/15

Tolfenamic Acid for Medulloblastoma: Pre-clinical Study

Basha, R.

Orlando Health Foundation

1/06/14 → 31/08/16