# Instructors

## Dr. Gopal Singh

Education

**Ph. D. 1987**

BBRA Bihar University, Muzaffarpur-842001, India

Title of Ph.D. Thesis-***Studies on pesticide resistance mutation in Cyanobacteria*.**

Academic Honors/Awards: University Grant Commission Teacher Fellowship for Ph.D.

**Masters of Science in Botany (Specialization Genetics) 1981**

BBRA Bihar University, Muzaffarpur-842001, India Academic Honors/Awards: National Merit Scholar for M.S.

**Bachelor of Science in Botany (Hons.) Zoology & Chemistry 1976**

Ranchi University, Ranchi, India

Experience

***Teaching :-***

Houston Community College, Houston, TX **1995- Present**

**Adjunct Instructor**, Biology Department

Last **twenty-six years** taught different **Biology** courses for college credits in different semesters when associated with HCCS in different campus.

**List of 125 course taught since Spring,1995:**

- **4** courses of General Bio Lab I-**BIO 1106,**
- **47** courses of General Biology I Lecture and Lab -**BIO1406**,
- **17** courses of General Biology II Lecture and Lab -**BIO 1407**,
- **24** Microbiology Laboratory for Health Science Majors- **BIO 2120,**
- **5** Microbiology Lecture for Health Science Majors-**BIO 2320** and
- **29** courses of Microbiology Lecture and Lab-**BIO 2420.**

U.P. College of L. N. M. University., Bihar, India

**1982-1994**

**Associate Professor**, Biology Department Taught Biology, Microbiology, Genetics, and Physiology to Freshman, Junior, and Senior undergraduate students.

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***Research :-***

M.D. Anderson Cancer Center Houston, Texas Texas **2006-Present**

**Research Lab Manager**, Department of Institutional Cancer Therapy

- Research on Breast Cancer –mTOR pathway.
- Clinical Research & Management of Biomarker studies for Breast cancer patients.
- Clinical Trials- use of new cancer therapeutics drugs to breast cancer patient to evaluate blood and biopsy sample, processing, new generation sequencing,
- RPPA and tumor-based predictive biomarkers, circulating biomarkers, and pharmacodynamic markers of response.

Baylor College of Medicine, Houston, Texas. **1999-2006**

**Research Associate**, Department of Pathology

- Research on alternative splicing and Muscular Dystrophy.

Veterans Administration Medical Center (VAMC), Houston, Texas **1995-1999**

**Research Assistant**, Department of Medicine

- Researched on Prostate Cancer cell division by glucose.

U.T. Medical School, Houston, Texas **1994-1995**

**Research Fellow**, Department of Microbiology & Molecular Genetics

- Researched on the interaction of cell division proteins in two bacteria.

Publications

1. Argun Akcakanat, Xiaofeng Zheng, Christian X. Cruz Pico, Tae-Beom Kim, Ken Chen, Anil Korkut, Aysegul Sahin ,Vijaykumar Holla, Emily Tarco, **Gopal Singh**, Senthil Damodaran, Gordon B. Mills, Ana Maria Gonzalez-Angulo and Funda Meric-Bernstam (2021). Genomic, Transcriptomic and Proteomic Profilling of Metastatic Breast Cancer. *Clinical Cancer Research.* 1;27(11):3243-3252.
2. Coya Tapia; Sinchita Roy-Chowdhuri, MD; Phyu P Aung, MD; Mingxuan Xu, PhD; Fengying Ouyang; Anas Alshawa; Joud Hajjar; **Gopal Singh**; Lilibeth Castillo; Hung Le; Ravi Murthy; Bettzy Stephen; Kenneth R. Hess; Ignacio I. Wistuba; Aung Naing (2020). Decrease in tumor content assessed in biopsies is associated with improved treatment outcome response to pembrolizumab in patients with rare tumors; *Journal for Immuno Therapy of Cancer* 2020;8: e000665. doi:10.1136/jitc-2020-000665JITC-D-19-00357.
3. Caitlin A Creasy, Marie-Andrée Forget, **Gopal Singh** , Coya Tapia, Mingxuan Xu , Bettzy Stephen , Sharjeel Sabir, Funda Meric-Bernstam , Cara Haymaker, Chantale Bernatchez and Aung Naing (2019). Exposure to anti-PD-1 causes Functional Differences in Tumor-Infiltrating Lymphocytes in Solid Tumors ; *Eur. J. Immunology*: 49; 2245-2251.
4. Funda Meric-Bernstam, Argun Akcakanat, Huiqin Chen, Aysegul Sahin , Emily Tarco, Selin Carkaci, Beatriz E. Adrada, **Gopal Singh**, Kim-Anh Do, Zerzhinski M. Garces, Elizabeth Mittendorf, Gildy Babiera, Isabelle Bedrosian, Rosa Hwang, Savitri Krishnamurthy, William F. Symmans, Ana Maria Gonzalez-Angulo, and Gordon B. Mills (2014) Influence of Biospecimen Variables on Proteomic. Biomarkers in Breast Cancer; *Clinical Cancer Research:* 20; 3870-3883.
5. **Singh, G**., Akcakanat, A., Sharma, C., Luyimbazi, D., Naff, K. and Meric-Bernstam, F. (2011). Effect of Leucine Restriction on Akt/mTOR Signaling in Breast Cancer Cell Lines *in vitro and in vivo*. *Nutrition Cancer.* 63(2): 264-271.
6. Adkins, F., Kim,W., Akcakanat, A., **Singh, G**., Hung, M., Meric-Bernstam, F., (2011). Differential Regulation of Tumor Suppressor PDCD4 Expression by Rapamycin. *J. Surgical Research*. 165(2) 178.
7. Luyimbazi, D., Akcakanat, A., Priscilla F. McAuliffe, **Singh, G.**, Zhang, L., Ana Maria Gonzalez-Angulo , Huiqin Chen, Kim-Anh Do, Zheng, Y., Hung, M.C, Mills, G. and Meric-Bernstam, F. (2010). Rapamycin regulates Stearoyl CoA Desaturase 1 Expression in Breast Cancer. *Cancer Ther.* 9(10) 2770-2784.
8. Kim D, Akcakanat A, **Singh G**, Sharma C, Meric-Bernstam F. (2009). Regulation and localization of ribosomal protein S6 kinase 1 isoforms. *Growth Factors* (1):12-21.
9. Soni A., Akcakanat A., **Singh G**, Luyimbazi D, Zheng Y, Kim D, Gonzalez-Angulo A, Meric-Bernstam F. (2008). eIF4E knockdown decreases breast cancer cell growth without activating Akt signaling. *Cancer Ther.* 7(7): 1782-1788.
10. Akcakanat A., **Singh G**., Hung M. C., Meric-Bernstam F. (2007). Rapamycin regulates the phosphorylation of rictor. *Biophy. Res. Communication* 362(2): 330-333.
11. **Singh, G**. and Cooper, T.A. (2006). A minigene reporter for identification and analysis of *cis* elements and *trans* factors affecting pre- mRNA splicing. *Bio Techniqes*. 41(2):177-181.

12. **Singh, G**., Charlet-B.N., Han, J. and Cooper, T.A. (2004). ETR-3 and CELF4 protein domains required for RNA binding and splicing activity *in vivo*. *Nucleic Acid Res.,* 32: 1232-1241.
13. Ho, H.T., Charlet-B.N., Poulos, M.G., **Singh, G**., Swanson, M.S. and Cooper, T.A. (2004). Muscle blind proteins regulate alternative splicing. *EMBO J.,* 23: 3103-3112.
14. Charlet-B.N., Logan, P., **Singh, G**. and Cooper, T.A. (2002a). Dynamic antagonism between ETR-3 and PTB regulates cell type-specific alternative splicing. *Mol. Cell* 9: 649-658.
15. Charlet-B.N., Savkur, R. S., **Singh, G**., Philips, A.V., Grice, E. A. and Cooper, T. A. (2002b). Loss of the muscle-specific chloride channel in type 1 mytonic dystrophy due to misregulated alternative splicing. *Mol. Cell* 10: 45-53.
16. **Singh, G**., Lakkis, C.L., Laucirica, R. and Epner, D.E. (1999). Regulation of prostate cancer cell division by glucose. *J. Cell Physiol.,* 180: 431-438.
17. Ma, X., Sun, Q., Wang, R., Singh, G., Jonietz, E., and Margolin, W.(1997). Interactions between heterlogous FtsA and FtsZ proteins at the FtsZ ring. *J. Bacteriol.,* 179: 6788-6797.
18. **Singh, G**., (1990). Growth and pigments of biocide-treated and untreated culture of cyanobacterium in different nitrogen media. *Bio J.,* 2: 91-94.
19. Rahman, M. A., Sinha, B. D., and **Singh, G**. (1987). The toxicity of Lead chloride to unicellular cyanobacterium, *Anacystis nidulans*. *J.,Mendel.* 4: 91-94.
20. **Singh, G**. and Sinha, B.D. (1986). Mutagenic potentials of DDT in *Anacystis nidulans*. *Pro. Green Veg. & Leaf Protein Res.,* 1: 55-60.
21. Sinha, B.D., Rahman, M.A. and **Singh, G**. (1986). Effects of malathion and DDT on *Anabaena doliolum*. *J., Mendel*. 3: 208-211.