CURRICULUM VITAE

Name: Suhasini Joshi

Current Position: Postdoctoral Researcher in Program of Chemical Biology, Memorial Sloan Kettering Cancer Center, New York 10065

Work Phone: +1 402 315 8330

Work E-mail: joshis@mskcc.org

Alternate E-mail: suhasinij14@gmail.com

EDUCATION

2010 – 2016	Ph.D.	Biochemistry and Molecular Biology	UNMC, Omaha, USA
2007 – 2009	M.Sc.	Biochemistry	All India Institute of Medical Sciences, India
2004 – 2007	B.Sc.	Biochemistry	University of Delhi, India

RESEARCH PROFILE

Postdoctoral Researcher: **08/2016-Present**
Project Title: Epichaperome based therapies in pancreatic cancer
Postdoc Supervisor: Dr. Gabriela Chiosis
Member and Tri-Institutional Professor
Program in Chemical Biology,
Memorial Sloan Kettering Cancer Center, NY, USA

Ph.D. Research Fellow: **08/2010 – 05/2016**
Thesis Title: Novel regulatory mechanisms and functions of MUC4 in pancreatic cancer
Thesis Supervisor: Dr. Surinder K. Batra
Professor and Chair
Department of Biochemistry and Molecular Biology,
UNMC, USA

Research Elective: **10/2009-04/2010**
Project Title: Role of End-binding protein (EB1) in colorectal cancer
Supervisors: Drs. Hemant K. Roy and Suzana Savkovic
Associate Professor
NorthShore University Health System (affiliated with Northwestern University), USA

M.Sc. Research Fellow: **07/2007 – 08/2009**
Thesis Title: Expression of angiopoietins in Indian patients of multiple myeloma
Thesis Supervisor: Dr. Alpana Sharma
Associate Professor
All India Institute of Medical Sciences, India

AWARDS & HONORS

2016 Keynote Speaker at Hostos Community College (The City University of New York)

2016 Nominated for Praesto award (overall excellence) from department Of Biochemistry and Molecular Biology, UNMC.

2015 Outstanding Performance Stipend Award, FY 2015-2016, Department of Biochemistry and Molecular Biology, UNMC.

First place in biochemistry section, Sigma Xi's Student Research Showcase.

National Sigma Xi's Grant-in-aid research award.

Biochemistry and Molecular Biology Department Award for best oral presentation (second place) at the annual Midwest Student Biomedical Research Forum (MSBRF), Omaha, Nebraska, USA.

2014 Simon Woolf Foundation Travel Award to attend AACR annual meeting.

Selected as American Association for Advancement of Science (AAAS) member through AAAS/Science Program for Excellence in Science.

Graduate Student Research Fellowship from University of Nebraska Medical Center for a period of 2014–2016.

Inducted as a full member of Sigma Tithe Scientific Research Society (an international honor society of science and engineering).

2013 Invited Speaker by National Cancer Institute-Tumor Microenvironment Network (NCI-TME)

2012 Young Investigator Travel Award by American pancreatic association and International Association of Pancreatology

2004 Meritorious Student Scholarship awarded by the Government of India (Ministry of Telecommunication) for a period of 2004 – 2007.

RESEARCH PUBLICATIONS

Peer Reviewed Research Articles

1. **Joshi S**, Cruz E, Rachagani S, Guha S, Brand RE, Ponnusamy MP *et al*. Bile acids-mediated overexpression of MUC4 via FAK-dependent c-Jun activation promotes the aggressiveness of pancreatic cancer. **Mol Oncol**. 2016; 10(7):1063-77.
2. **Joshi S**, Kumar S, Ponnusamy MP, Batra SK. Hypoxia-induced oxidative stress promotes MUC4 degradation via autophagy to enhance pancreatic cancer cells survival. **Oncogene.** 2016;35(45):5882-92
3. **Joshi S***, Gupta N*, Khan R*, Kumar R, Sharma M, Kumar L *et al*. Interrelationship between angiogenesis, inflammation and oxidative stress in Indian patients with multiple myeloma. **Clin. Transl. Oncol.** 2016; 18(2):132-7. *equal contribution
4. Kumar S, Das S, Rachagani S, Kaur S, **Joshi S**, Batra SK *et al*. NCOA3-mediated upregulation of mucin expression via transcriptional and post-translational changes during the development of pancreatic cancer. **Oncogene.** 2015; 34 (37): 4879-89.
5. Lakshmanan I, Seshacharyulu P, Haridas D, Rachagani S, Gupta S, **Joshi S** *et al*. Novel HER3/MUC4 oncogenic signaling aggravates the tumorigenic phenotypes of pancreatic cancer cells. **Oncotarget**. 2015; 6 (25): 21085-99.
6. Kumar S*, Torres MP*, Kaur S, Rachagani S, **Joshi S**, Johansson SL *et al*. Smoking accelerates pancreatic cancer progression by promoting differentiation of MDSCs and inducing HB-EGF expression in macrophages. **Oncogene**. 2015; 34(16): 2052-60. *equal contribution
7. Torres MP, Rachagani S, Purohit V, Pandey P, **Joshi S**, Moore E *et al*. Graviola: A Novel promising natural-derived drug that inhibits tumorigenicity and metastasis of pancreatic cancer cells in vitro and in vivo through altering cell metabolism. **Cancer. Lett**. 2012; 323(1): 29-40.
8. Qi W, **Joshi S**, Weber CR, Wali RK, Roy HK, Savkovic SD. Polyethylene glycol diminishes pathological effects of Citrobacter rodentium infection by blocking bacterial attachment to the colonic epithelia. **Gut Microbes**. 2011. 2(5); 267-73.
9. **Joshi S**, Khan R, Sharma M, Kumar L, Sharma A. Angiopoietin-2: A potential novel diagnostic marker in multiple myeloma. **Clin. Biochem.** 2011;44 (8-9): 590-5.
10. Roy HK, Koetsier JL, Tiwari AK, **Joshi S**, Kunte DP, Ward TP *et al*. Involvement of p21cip1/waf1 in the anti-proliferative effects of polyethylene glycol in colon carcinogenesis**. Int. J Oncol**. 2011; 38 (2): 529-36.
11. Qi W, Weber CR, Wasland K, Roy H, Wali R, **Joshi S** *et al*. Tumor suppressor FOXO3 mediates signals from the EGF receptor to regulate proliferation of colonic cells. **Am. J. Physiol. Gastrointest. Liver. Physiol**. 2011. 300(2); G264-72.
12. Sharma A, Khan R, **Joshi S,** Sharma M and Kumar L. Dysregulation in Th1/Th2 cytokines ratios in Multiple myeloma patients. **Leuk. Lymphoma**. 2010;51(5); 920-7.

Peer Reviewed Review Articles

1. Kumar S, Cruz E, **Joshi S**, Patel A, Jahan A, Batra SK, Jain M. Genetic Variants of Mucins: Unexplored Conundrum. **Carcinogenesis**. 2016 [Epub ahead of print]
2. **Joshi S**, Kumar S, Bafna S, Rachagani S, Jain M, Wagner KU *et al*. Genetically-Engineered Mucins Mouse Models for Inflammation and Cancer. **Cancer Metastasis Rev.** 2015; 34(4): 593-609.
3. **Joshi S**, Kumar S, Choudhary A, Ponnusamy MP, Batra SK. Altered Mucins (MUC) Trafficking in Benign and Malignant Conditions. **Oncotarget.** 2014; 5(17): 7272-84.

4. **Joshi S**, K Tiwari A, Mondal B, Sharma A. Oncoproteomics. **Clin Chim Acta**. 2010. 412 (3-4); 217-26.

Published Abstracts

1. **Joshi S**, Kumar S, Ponnusamy MP, Batra SK. MUC4 is negatively regulated by hypoxia in ROS-dependent manner in pancreatic cancer. **Cancer Res**. 2015; 75 (15 Suppl.):1256
2. Sushil K, Rachagani S, **Joshi S**, Gupta S, Varney ML. Deficiency of Lipocalin-2 Protect Against Cerulein-Induced Severe Acute Pancreatitis. **Pancreas.** 2015 44(8):1389.
3. Sushil K, **Joshi S**, Rachagani S, Chugh S, Batra SK**.** Mucin Regulation by Tumor Microenvironment: Impact on Pancreatic Cancer. **Pancreas**. 2013; 42(8):1361
4. Vaz AP, Kumar S, **Joshi S**, Seshacharyulu P, Batra SK, MP Ponnusamy. TME Factors-Mediated Intracellular Communication in the Enrichment of PD2 Overexpressed Pancreatic Cancer Stem Cells. **Pancreas**. 2013; 43 (8): 141
5. **Joshi S**, Kumar S, Batra SK. MUC4 is a novel regulator of EGFR trafficking in pancreatic cancer. **Pancreatology**. 2012; 13(2): e41
6. Stypula Y, Mutyal N, Radosevich A, **Joshi S**, Tiwari AK, Kunte D *et al* . End Binding Protein (EB1) up-regulation in field carcinogenesis: implications for cytoskeletal alterations measured by low-coherence enhanced backscattering (LEBS). **Gastroenterology**. 2011; 140(5):61363-2
7. Qi W, **Joshi S,** Weber CR, Wali R, Roy HK, and Savkovic SD. Polyethylene glycol (PEG) diminishes pathological effects of Citrobacter rodentium infection by blocking bacterial attachment to the colonic epithelia. **Gastroenterology**. 2011;140(5): S-663
8. Tiwari AK, **Joshi S,** Brasky JT, DeLaCruz M, Gibson TP, Kunte D *et al*. Superoxide dismutase 2 (SOD2) is overexpressed at an early stage during colorectal carcinogenesis: A putative target for celecoxib chemoprevention. **Gastroenterology**. 2011; 140(5):61394-2
9. Tiwari AK, **Joshi S,** Wali RL, Gandhi SR, DeLaCruz M, Koetsier J *et al*. Deoxycholic Acid Dependent Regulation of CDx2 Expression Has a Role in Gender Related Issues During Colorectal Carcinogenesis.**Gastroenterology**.2010; 138(5):62337-2
10. Stypula Y, Damania D, Subramanian H, **Joshi S,** Tiwari AK, Ward TP *et al*. Nanoscale Alterations in Early Colon Carcinogenesis are determined by Cytoskeletal Dysregulation in Microscopically Normal Mucosa. **Gastroenterology.** 2010; 138(5):62342-6
11. Sharma A, Khan R, **Joshi S,** Sharma M, Kumar L. Role of angiogenic factors and extracellular matrix proteins in multiple myeloma. **Cancer Prev. Res.** 2010;3(1 Suppl):B43
12. Sharma A, **Joshi S**, Satyam A, Sharma M, Kumar L. Role of angiopoietins and VEGF in the microenvironment development of multiple myeloma. **Cancer Res**. 2009; 6: 4063

SELECTED PRESENTATIONS (ONLY FIRST-AUTHORED)

2015 Annual Meeting of American Association for Cancer Research (*Poster*),
Midwest Student Biomedical Research Forum (*Talk*) - Biochemistry and Molecular Biology award for **best oral presentation (second place)**
Annual Biochemistry Symposium (Poster)

2014	Midwest Student Biomedical Research Forum (*Talk*) Annual Biochemistry Symposium (*Poster*)
2014	Midwest Student Biomedical Research Forum (*Talk*) National Cancer Institute-Tumor microenvironment network (Talk)
2013	Midwest Student Biomedical Research Forum (*Talk*)
2012	Midwest Student Biomedical Research Forum (*Poster*) Annual meeting of American pancreatic association and International Association of Pancreatology (Poster)

PEER REVIEWER

- PloS One (2016-Present)
- OncoTargets and Therapy (2015-Present)
- Therapeutics and Clinical Risk Management (2016-Present)
- Biologics: Targets and Therapy (2015-2016)

TEACHING EXPERIENCE

2014-2015: Tutor at University of Nebraska Medical Center

ORGANIZATIONS

- American Association of Cancer Research (2014-Present)
- American Pancreatic Association (2012 – Present)
- International Society for Pharmaceutical Engineering (2014 – 2015)
- Sigma Xi The Scientific Research Society (2014-Present)
- The American Association for the Advancement of Science (2014 – Present)