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## Personal Statement

My long-term research interests are to understand the mechanisms of cancer development including *via* Metabolism and EGFR signaling in Hepatocellular carcinoma, cholangiocarcinoma and polycystic liver diseases. I am also interested in deciphering the role of primary cilia effects in cellular signaling, metabolic perturbations and their effects on anti-tumor therapy. I am looking to be a part of a competitive, fast-paced work environment where I can complement the on-going research efforts besides establishing my own research niche.

## Areas of Research

- ❖ Cholangiocarcinoma
- ❖ Hepatocellular Carcinoma
- ❖ Molecular Biology
- ❖ Cellular metabolism
- ❖ Signal Transduction

## Education

2013-2018 **Ph.D.** (Faculty of Life Sciences and Biotechnology) South Asian University, New Delhi, India.

2010-2012 **M.Sc.** (Department of Microbiology) Sikkim Central University, Sikkim, India.

2007-2010 **B.Sc.** (Department of Biotechnology) University of Madras, Chennai, India.

## Current position

2018- To date, **Senior Researcher** at Hormel Institute, a Medical Research Center, University of Minnesota, Austin, MN, USA.

## Research publications

Complete List of Published Work in My Bibliography:

<https://www.ncbi.nlm.nih.gov/pubmed/?term=Kishor+Pant>

- 1- **K Pant**, ...et al... Gradilone, S.A The Role of Gut Microbiome-Derived Short Chain Fatty Acid Butyrate in Hepatobiliary Diseases,**The American Journal of Pathology**, 2023, (**\*co-Corresponding Author**)

- 2- **K Pant**, et al... Gradilone, S.A, Cholangiocyte Ciliary Defects Induce Sustained Epidermal Growth Factor Receptor Signaling, **Hepatology**, Accepted for publication
- 3- **K Pant**, et al... Gradilone, S.A, Targeting Polycystic Liver Disease with NAMPT Inhibition Improves Octreotide Treatment, **The American Journal of Pathology**, Accepted for publication
- 4- **K Pant**, et al... Gradilone, S.A.. The NAMPT inhibitor FK866 in combination with cisplatin reduces cholangiocarcinoma cells growth, **Cells** 2023, **2023**, 12, 775.
- 5- Ajay K. Yadav,., **K Pant**, Senthil K. Venugopal, Free fatty acid-induced miR-22 inhibits gluconeogenesis via SIRT-1-mediated PGC-1 $\alpha$  expression in non-alcoholic fatty liver disease, **iLIVER**, 2023, **(In press)**
- 6- **K Pant** et al, Histone Deacetylase SIRT1 promotes loss of primary cilia in Cholangiocarcinoma, **Hepatology**, July 2021. In press. [doi.org/10.1002/hep.32080.2](https://doi.org/10.1002/hep.32080.2).
- 7- A K Yadav, ....., **K Pant**, S K Venugopal, Free fatty acid-induced miR-181a-5p stimulates apoptosis by targeting XIAP and Bcl2 in hepatic cells, **Life Sciences**, 2022, 301, 120625.
- 8- **K Pant** , SA Gradilone, Hepatobiliary Cancers: Progress in Diagnosis, Pathogenesis, and Treatment, Editorial , (May 2022), TCRT(\***co-Corresponding Author**)
- 9- **K Pant\***, S Richard, SA Gradilone\*, Short Chain Fatty Acid, butyrate, induces cilia formation and potentiates the effects of HDAC6 inhibitors in Cholangiocarcinoma cells, **Front. Cell Dev. Biol.** December 2021. (\***co-Corresponding Author**)
- 10- **K Pant**, E Peixoto, S Richard, SA Gradilone, Role of Histone Deacetylases in Carcinogenesis: Potential Role in Cholangiocarcinoma, (2020) **Cells** 9 (3), 780.
- 11- E Peixoto, S Richard, **K Pant**, A Biswas, SA Gradilone, The primary cilium: its role as a tumor suppressor organelle (2020) **Biochemical Pharmacology**, 171, 113906.
- 12- **K Pant**, E Peixoto, S Richerd, SA Gradilone, Role of Glucose Metabolism Reprogramming in the Pathogenesis of Cholangiocarcinoma (2020) **Frontiers in Medicine**, 7, 113.
- 13- **K Pant**, A.K. Yadav, P. Gupta, R. Islam, A. Saraya, S.K. Venugopal, Butyrate induces ROS-mediated apoptosis by modulating miR-22/SIRT-1 pathway in hepatic cancer cells, **Redox Biol.** 12 (2017) 340–349.

14- **K Pant\***, AK Yadav, P Gupta, AS Rathore, B Nayak, SK Venugopal\*, Humic acid inhibits HBV-induced autophagosome formation and induces apoptosis in HBV-transfected Hep G2 cells, **Scientific Reports** 6, 2016. (\*co-Corresponding Author)

15- **K Pant**, Amit K. Mishra, Saman man Pradhan, Senthil K. Venugopal, Inhibition of the Sirt-1 expression by butyrate impede the Hepatitis B Virus replication, (2019) **Mol. Carcinogenesis**, 58(40). 524-532.

16- **K Pant**, SK Venugopal. Circulating microRNAs: Possible role as non-invasive diagnostic biomarkers in liver disease, **Clinics and Research in Hepatology and Gastroenterology**, 2016.

17- **K Pant**, P Gupta, P Damania, AK Yadav, A Gupta, A Ashraf, SK Venugopal, Mineral pitch induces apoptosis and inhibits proliferation via modulating reactive oxygen species in hepatic cancer cells, **BMC complementary and alternative medicine** 16 (1), 148.

### **Articles under Revision/preparation**

1- Seth, R; **K, Pant**..... et al, ATAT1 regulates callogenesis and cell growth in cholangiocarcinoma cells, manuscript in preparation.

2- **K Pant**, et al....., Ciliary defect regulates glucose metabolism and EGFR activation, manuscript in preparation.

### **Book Chapter**

**Kishor Pant**, Amit K. Mishra, Senthil K. Venugopal, *microRNAs in the progression of hepatocellular carcinoma*, Book title "miRNA in health and diseases" edited by Dr. Jayshree Paul, Taylor and Francis Publishers. 2019.

## **B. Positions and Honors**

### **Positions and Employment**

2018 - 2023 postdoctoral Researcher, The Hormel Institute, Austin, MN  
currently- Researcher 5

### **Other Experience and Professional Memberships**

2019 - American Association for the Study of Liver Diseases (AASLD)

### **Honors and Awards**

- 2013-2018
- PhD Fellowship, South Asian University, New Delhi, India.
  - Full travel grant for NextGen Genomics, Biology, Bioinformatics

- Technologies (NGBT) Conference, Oct 3rd-5th, Cochin, India.
- Best oral presentation award in One-day symposium On HBV HIV, South Asian University September 1, 2016.

### **Grant and Awards**

- Received Hormel Fellowship (2018-2021)
- **\$ 50,000** research grant: from Cholangiocarcinoma Foundation, Salt Lake City, UT (2022-2023)
- **\$ 1000** “Early Career Investigator Award in Basic Science” in Washington DC AASLD 2022
- **\$ 500** Best Reviewer’s award 2022 from Cells (MDPI).
- Travel grants from Scigenome foundation to attend NGBT meeting 2017 in India.
- 2016 NBDG Meeting Scholarship and travel award for SGRF.

### **Editor and Reviewer role**

- Serving as editor in following journals
  - 1-Technology in cancer research & treatment
  - 2-Guest editor in Frontiers in physiology
  - 3- Editorial Board member in iLiver (Elsevier)
  - 4- Editorial Board member in Oncology and Translational Medicine (OTM)
  - 5- Editorial Board member in PLOS One

#### **Serving as Reviewers in following journals**

Life Sciences, Scientific Reports, PLOSOne, Helion, Cancers, Cells Frontiers in oncology and Cell death and differentiation

### **Scholastic Performance**

#### **Poster presentations**

#### **AASLD 2022 NAD-PLD**

- 1- CCA foundation poster 2022
- 2- Masonic Cancer center May 2022
- 3- AASLD 2019 poster
- 4- CCA foundation 2021 poster

- 1- Humic matter inhibits HBV-induced autophagosome formation and induces apoptosis in HBV-transfected HepG2 Cells, AASLD LiverLearning®. Pant K. Nov 16, 2015; 110908
- 2- International Cancer Congress,9-10 July, 2016. Nagpur, India.
- 3- NextGen Genomics, Biology, Bioinformatics and Technologies (NGBT) Conference, Oct 3rd-5th, Cochin, India.
- 4- Overexpression of miRNA 181a in Hepatic Stellate Cells Inhibits Stellate Cell Activation via rac1/MAPK Pathway, Journal of Clinical and Experimental Hepatology, Volume 5, Supplement 2, June–July 2015, Pages S1–S2
- 5- miRNA-181a Over Expression Acts as Potent Anti-Oxidant by Increasing SOD-1 and Nrf-2 in Hepatic Cells, Journal of Clinical and Experimental Hepatology,Volume 5, Supplement 2, June–July 2015, Pages S2.
- 6- Butyrate induces ROS-mediated apoptosis via modulation of miR-22/SIRT-I pathway in Hepatoma cells, October 2016 Conference: ASLD 2016, At USA, Volume: 64.

#### **Invited talks and Oral presentations**

- 1- Presented our work titled “The role of primary cilia in EGFR signaling regulation in cholangiocarcinoma” at [Cholangiocarcinoma Foundation Annual Conference](#) on Friday, April 14, 2023
- 2- Presented our work in [AASLD 2022](#) (selected best abstract in Hepatobiliary section)
- 3- Role of Reactive Oxygen Species in HBV-induced Autophagy and Viral Replication, BioEpoch, JNU, New Delhi, 23-24th march, 2017
- 3- Humic acid inhibits HBV-induced Autophagosome formation and induces the apoptosis in HBV infected HepG 2 cells, One day symposium On HBV and HIV, South Asian University, New Delhi, September 1, 2016.