




## Faculty Details Proforma for College Web-site



Title	Dr	First Name	Ritu	Last Name	Khosla	Photograph
Designation		Assistant Professor (Adhoc)				
Address		Acharya Narendra Dev College, University of Delhi				
Phone No Office						
Email/ Web-Page		ritukhosla@andc.du.ac.in				
Educational Qualifications						
Degree		Institution			Year	
B. Tech. (Biotechnology)		Guru Gobind Singh Indraprastha University			2003	
M. Tech. (Biotechnology)		Guru Gobind Singh Indraprastha University			2005	
Ph.D		Institute of Liver and Biliary Sciences, Delhi, India			2017	
Career Profile						
Jan, 2021 – Till Date		Assistant Professor (Adhoc), Acharya Narendra Dev College University of Delhi, India				
Sep, 2019 – May, 2020		Guest Lecturer, Acharya Narendra Dev College University of Delhi, India				
Sep, 2017 – Apr, 2019		Guest Lecturer, Satyawati College University of Delhi, India				
Feb, 2010 – Oct, 2010		Senior Lecturer, Amity Institute of Biotechnology Amity University, Noida, India				
Feb, 2007 – Feb, 2010		Lecturer, Amity Institute of Biotechnology Amity University, Noida, India				
May, 2006 – Feb, 2007		Research Scientist Jubilant Organosys Ltd. (VAM Organics), Gajraula, India				
Feb, 2005 – Apr, 2006		Research Trainee Jubilant Organosys Ltd. (VAM Organics), Gajraula, India				
Administrative Assignments						

Areas of Interest / Specialization
Liver Cancer stem cells, Transmission of Hepatitis B and E viral infection
Subjects Taught
Principle of Genetics, Human Genetics, Forensic Science, Cell and Radiation Biology, Molecular Biology. Biochemistry, Stem cell technology
Research Guidance
Publications Profile
<p><b>BOOK</b></p> <ol style="list-style-type: none"> <li>Balram Pani, Namita Singh, Shivani Virmani, <b>Ritu Khosla</b>. <i>Concepts in Environmental Studies</i>. I K International Publications</li> </ol> <p><b>RESEARCH PUBLICATIONS.</b></p> <ol style="list-style-type: none"> <li><b>Khosla R</b>, Hemati H, Rastogi A, Ramakrishna G, Sarin SK, Trehanpati N. miR-26b-5p helps in EpCAM<sup>+</sup> cancer stem cell maintenance via HSC71/HSPA8 and augments malignant features in hepatocellular carcinoma. <i>Liver International</i>. 2019 Sep;39(9):1692-1703.</li> <li><b>Khosla R</b>, Vyas A, Trehanpati N. Dichotomy of Notch signaling in regulating tumor immune surveillance. <i>Scandinavian Journal of Immunology</i>, 2018 Dec 13:e12744.</li> <li>Vyas A, <b>Khosla R</b> and Trehanpati N. Non-specific aberrant expression of T follicular helper and regulatory-cells with age. <i>Scandinavian Journal of Immunology</i>, 2017, 5 Jul</li> <li>Trehanpati N, Sehgal R, Patra S, Vyas A, Vasudevan M, <b>Khosla R</b>, Khanam A, Kumar G, Maiwall R, Ramakrishna G, Kottlil S, Sarin SK. miRNA signatures can predict acute liver failure in hepatitis E infected pregnant females. <i>Heliyon</i>. 2017 Apr 6;3(4):e00287</li> <li><b>Khosla R.</b>, Rastogi A., Ramakrishna G., Pamecha V., Mukhopadhyay A., Vasudevan M., Sarin S.K., Trehanpati N. EpCAM<sup>+</sup> liver cancer stem-like cells exhibiting autocrine Wnt signalling potentially originate in cirrhotic patients. <i>Stem Cells Translational Medicine</i>. 2017 Mar;6(3):807-818</li> <li>Sharma S.*, <b>Khosla R.*</b>, David P, Rastogi A, Vyas A, Singh D, Bhardwaj A, Sahney A, Maiwall R, Sarin SK, Trehanpati N. CD4<sup>+</sup>CD25<sup>+</sup>CD127 (low) regulatory T cells play predominant anti-tumor suppressive role in hepatitis B virus-associated Hepatocellular</li> </ol>

carcinoma. *Front Immunol.* 2015 Feb 25;6:49.

7. Basniwal R.K.\*, **Khosla R.\***, and Jain N. Improving the anticancer activity of curcumin us nanocurcumin dispersion in water. *Nutr Cancer.* 2014 66(6):1015-22.
8. Trehanpati N, Khanam A, Hissar S, Sehgal R, **Khosla R**, David P, Kumar A, Parashar A, Bhardwaj A, Kottlil S, Sarin S K. Sequential therapy with tenofovir plus peg interferon enhances innate and adaptive immunity compared to tenofovir monotherapy in chronic hepatitis B patients. *J Clin Cell Immunol.* 2014; Nov 14;5: 6.
9. Ramakrishna G., Rastogi A., Trehanpati N., Sen B, **Khosla R.** and Sarin S.K. From cirrhosis to Hepatocellular Carcinoma: New molecular insights on inflammation and cellular senescence. *Liver Cancer* 2013 Aug; 2(3-4):367-83.
10. Trehanpati N, Shrivastav A S., Shivakumar B., **Khosla R.**, Bhardwaj S., Chaturvedi J., Sukriti, Kumar B., Bose S., Tripathi D.M., Das T., Sakhuja P., Rastogi A., Bihari C., Singh S., Gupta S., Kottlil S., and Sarin S.K. Analysis of Notch and TGF- $\beta$  signaling expression in different stages of disease progression during Hepatitis B virus infection. *Clinical and Translational Gastroenterology* 2012 Oct 4;3:e23

*\*shared first author*

#### Conference / Presentations /Workshops

#### Published Abstracts

1. Rashi Sehgal, **Ritu Khosla**, Sharda Patra, Guresh Kumar, Shyam Kottlil, Shiv Kumar Sarin, Nirupma Trehanpati. miRNA-450b is an independent prognostic marker for acute liver failure (ALF) in Hepatitis E infected pregnant females. *Journal of Hepatology* Apr 15, 2016; 125645
2. S Sharma, **R Khosla**, P David, A Rastogi, AK Vyas, A Bhardwaj, A Sahney, R Maiwall, G Ramakrishna, SK Sarin, N Trehanpati. [CD4+ CD25+ CD127low regulatory T cells play predominant anti-tumor suppressive role in hepatitis b virus associated hepatocellular carcinoma.](#) *Journal of Hepatology* 2015 62, S419
3. **Ritu Khosla**, Archana Rastogi, Shyam Singh, Madavan Vasudevan, Viniyendra Pamecha, Gayatri Ramakrishna, Shiv K Sarin, Nirupma Trehanpati. [Detection of putative cancer stem cells that exhibit autocrine Wnt signalling in patients with cirrhosis.](#) *Hepatology* 2015 62, S419
4. Nirupma Trehanpati, **Ritu Khosla**, Paul David, Rashi Sehgal, Ashish Vyas, Arshi Khanam, Anupama Prashar, Syed Hissar, Gayatri Ramakrishna, Shiv K Sarin. [miR-155 regulates dendritic cell activation in chronic hepatitis B virus \(CHBV\) infected patients](#)

on Tenofovir plus Peg Interferon Therapy. *Hepatology* 2013 58, 419A-419A

5. Pranjal Deka, **Ritu Khosla**, Nirupma Trehanpati, Archana Rastogi, Shiv K Sarin, Tushar K Chattopadhyay. Reverse transcription polymerase chain reaction is sensitive method for lymph node Micrometastasis in Gallbladder cancer, Cholangiocarcinoma and Pancreas cancer. *Hepatology* 2013 58, 1239A-1239A
6. **Ritu Khosla**, Nirupma Trehanpati, Viniyendra Pamecha, Anupam Kumar, Shiv K Sarin. EpCAM plus cells in Cirrhosis and Hepatocellular carcinoma show comparable expression of self-renewal and Wnt pathway genes indicating the existence of cancer stem-like cells in cirrhosis. *Hepatology* 2012 56, 806A-806A

### **International Conferences**

1. Rashi Sehgal, **Ritu Khosla**, Sharda Patra, Guresh Kumar, Shyam Kottlilil, Shiv Kumar Sarin, Nirupma Trehanpati. miRNA-450b is an independent prognostic marker for acute liver failure (ALF) in Hepatitis E infected pregnant females. **EASL, 2016** (Poster)
2. S Sharma, **R Khosla**, P David, A Rastogi, AK Vyas, A Bhardwaj, A Sahney, R Maiwall, G Ramakrishna, SK Sarin, N Trehanpati. [CD4+ CD25+ CD127low regulatory T cells play predominant anti-tumor suppressive role in hepatitis b virus associated hepatocellular carcinoma.](#) **EASL, 2016** (Poster)
3. **Ritu Khosla**, Archana Rastogi, Shyam Singh, Madavan Vasudevan, Viniyendra Pamecha, Gayatri Ramakrishna, Shiv K Sarin, Nirupma Trehanpati. Detection of putative cancer stem cells that exhibit autocrine Wnt signalling in patients with cirrhosis. **AASLD, 2015** (Poster)
4. **Ritu Khosla**, Archana Rastogi, Viniyendra Pamecha, Paul David, Gayatri Ramakrishnan, Shiv K. Sarin and Nirupma Trehanpati. In vitro characterization of EpCAM+ cells reveal the existence of cancer stem cells during liver cirrhosis. **Hepatology 360, 2014** (Poster)
5. Pranjal Deka, **Ritu Khosla**, Nirupma Trehanpati, Archana Rastogi, Shiv K. Sarin, Tushar K. Chattopadhyay. Reverse Transcription Polymerase Chain Reaction is a sensitive method for detecting lymph node Micrometastasis. **AASLD, 2013** (Poster)
6. Nirupma Trehanpati, **Ritu Khosla**, David Paul, Rashi Sehgal, Preety Damania, Anupama Prashar, Syed Hissar and Shiv Sarin. miR-155 regulates Dendritic cell activation in chronic hepatitis B (CHB) patients on Tenofovir plus Peg Interferon Therapy. **AASLD, 2013** (Poster)
7. **Ritu Khosla**, Nirupma Trehanpati, Viniyendra Pamecha, Anupam Kumar and Shiv K. Sarin.

EpCAM+ cells in cirrhosis and HCC show comparable expression of self renewal, Notch and Wnt pathway genes indicating the existence of cancer stem-like cells in cirrhosis. **AASLD, 2012** (Poster)

8. **Ritu Khosla**, Nirupma TrehanPati, Binayak Kumar, Shiv Sarin. EpCAM+ cells of HCC and Cirrhosis show equivalent expression levels of stemness genes. **2<sup>nd</sup> ICSCC, 2011** (Oral)
9. Sharma, P. C., Kumar, P. S., **Paruthi (Khosla), R.**, Janaiah, K., Govil, J. N. and Kumar, P. A. AFLP and RAPD fingerprinting in pigeonpea and related species. Legumes for the benefit of Agriculture, Nutrition and the Environment: their genomics, their products, and their improvement. **Palais Des Congress, 2004**, Dijon, France. pp-171 (Poster)

### **National Conferences**

1. **Ritu Khosla**, Nirupma Trehanpati, Viniyendra Pamecha, Anupam Kumar and Shiv K. Sarin. EpCAM+ cells in cirrhosis and HCC show comparable expression of self renewal, Notch and Wnt pathway genes indicating the existence of cancer stem-like cells in cirrhosis. **Indian Society of Gastroenterology Conference (ISGCON), 2012.** (Poster)
2. **Ritu Khosla**, Nirupma Trehanpati, Binayak Kumar, Shiv Sarin. EpCAM+ cells of HCC and Cirrhosis show equivalent expression levels of stemness genes. **Biotech 2012.** (Poster)
3. **Ritu Paruthi (Khosla)**, Kumar, P. S., Kumar, P. A. and Sharma, P. C. RAPD diversity in pigeonpea [*Cajanus cajan* (L.) Millsp.] and related species. 73<sup>rd</sup> annual sessions of the **National Academy of Sciences, 2003**, India. pp-5. (Oral)

### **Research Projects (Major Grants/Research Collaboration)**

### **Awards and Distinctions**

1. Young investigator registration bursary by International Liver Congress (EASL, 2017)
2. Received cash award of €1,000 for Best Poster in Hepatology 360, 2015
3. International Travel award from Indian Council of Medical research (ICMR) to attend AASLD conference, 2013.
4. Received cash award of Rs. 10,000 for 2<sup>nd</sup> Best Oral Presentation in 2<sup>nd</sup> International Conference on Stem Cells and Cancer, 2011

5. Received SRF from ICMR for the period Dec, 2012 to Dec, 2015 6. Qualified CSIR-UGC NET for Lectureship, 2008
Association With Professional Bodies
Other Activities

Signature of Faculty Member

- You are also requested to also give your complete resume as a DOC and PDF file to be attached as a link on your faculty page.