Dr. Kishore Kumar Jella
Department of Radiation Oncology
Winship Cancer Institute of Emory University
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EDUCATION

2008-2012 **PhD in Radiation Induced Non-Targeted Signaling** at Dublin Institute of Technology, Radiation and Environmental Science Center, Dublin, Ireland.

Thesis title: Radiation Induced Bystander Signaling.
Advisor: Professor Fiona M. Lyng

2006-2007 **MS in Molecular Biology** University of Skövde, Skövde, Sweden.

Thesis title: Analysis of non-apoptotic cell death pathways in multidrug resistant cell variants following treatment with new Topo II inhibitors. Work performed at Charité University Hospital, Berlin, Germany.
Advisor: Professor Hermann Lage

2003-2005 **MS in Biochemistry** Osmania University, Hyderabad, India.

2000-2003 **BS in Microbiology, Chemistry and Computer Applications**, Osmania University, Hyderabad, India.

RESEARCH EXPERIENCE

2013-present **Postdoctoral Fellow**. Department of Radiation Oncology, Emory University School of Medicine.

Title: High-throughput sequencing methodology to identify exosomal RNAs and proteins involved in radiation induced non-targeted effects.

2007-2008 **Research Assistant** Charité University Hospital, Berlin, Germany.

Project title: Conformation of protein levels in shRNA transfected cells.
Supervisor: Professor Hermann Lage.

2006 **Visiting Student for summer project** two-month visitor appointment: University of Murcia, Spain.

Project title: RNA silencing in Zygomycetes fungi.

Advisor: Professor Rosa M. Ruiz Vazquez

PUBLICATIONS

1. K. Kumar Jella, R. Moriarty, B. McClean, H.J. Byrne and F.M. Lyng, **"Intercellular signalling molecules in directly irradiated cells and bystander cells"** *Radiation Research, 2016* (Manuscript submitted).

2. K. Kumar Jella, L. Yu, Q. Yue, D. Friedman, B. Jeanne, D. C. Eaton and A. Alli, "**Exosomes isolated from proximal tubule cells regulate ENac activity"** PLOSONE, 2016 (Manuscript accepted).

3. Z. Li, G. Doho, X. Zheng, K. Kumar Jella, S. Li, Y. Wang and W.S. Dynan, **"Co-culturing with high-charge and energy particle irradiated cells increases mutagenic joining of enzymatically-induced DNA double-strand breaks in non-irradiated cells"** *Radiation Research*, 184: 249-58, 2015.

4. K. Kumar Jella, B. McClean, H.J. Byrne and F.M. Lyng, **"Role of exosomes in Radiation Induced bystander Signaling"** *Radiation Research,* 181: 138-45, 2014.

5. K. Kumar Jella, A. Garcia, B. McClean, H.J. Byrne and F.M. Lyng, **"Cell death pathways in directly irradiated cells and cells exposed to medium from irradiated cells"** *International Journal of Radiation Biology*, 89: 182-90, 2013.

6. F.M. Lyng, M. Desplanques, K. Kumar Jella, A. Garcia and B. McClean, **"The importance of serotonin levels in the measurement of radiation-induced bystander cell death in HaCaT cells"** *International Journal of Radiation Biology*, 88: 770-2, 2012.

AWARDS AND HONORS

2015 **Scholars-in-Training Travel Award** from Radiation Research Society.

2014 **Outstanding Poster Award** for the best poster in Cancer Biology & Oncology Sciences at Emory Postdoctoral Symposium held at Emory University, in Atlanta, USA

2012 **Early Career Travel Bursary Award,** The Association of Radiation Research joint Annual Meeting, Brunel University, UK,

2011 **MSI Travel Bursary Award** by Microscopical Society of Ireland.

2011 **Early Career Investigator Travel Bursary Award,** The Association of Radiation Research joint Annual Meeting Nottingham University, UK

GRANTS

1. **Role of exosomes in radiation induced abscopal effects, and potential for translational clinical trials**- Emory Winship ACS IRG (2014-2015).

   M. K Khan, W. S. Dynan, R Ahmed, **K K Jella** and T Nasti

   The project uses mouse models to determine the role of exosomes in radiation induced abscopal effects.

2. **Transfer of post-irradiation anti-tumor abscopal response using melanoma exosomes-** Winship Invest$ Grant (2016-2018).

   M. K Khan, W. S. Dynan, R Ahmed, **K K Jella** and T Nasti

   The project involves the identification of novel biomarkers within exosomes produced after irradiation that results in radiation induced abscopal effects.

TECHQNIQUES HANDLED

- Cell culture, Flow cytometry, Western blot, Time-lapse microscopy, confocal microscopy, ELISA, Real time PCR, Nano Sight, DLS, Cytotoxicity assays, biochemical, Molecular biology and Microbiological skills.

Training courses

- Attended winter school 2012: **"Practical Course in Advanced Microscopy"** with practical modules on live cells using **"Time-lapse Microscopy"** at **ETH, Zurich, Switzerland** in 2012.

- Attended **DOREMI** short course entitled: "Cellular Effects of Low Dose and Low Dose-Rates with focus on DNA damage and stress response" at **Stockholm University, Sweden** in 2011.

SOFTWARE SKILLS

- C, C++, JAVA programming skills

REFERENCES

References are provided upon request.