

## Annexure-I

### Personal Details

Dr. Rajesh Kumar Gandhirajan, CoPI

Name	Prof. Rajesh Kumar Gandhirajan
Contact details	Redox Laboratory Dept of Human Genetics 3 <sup>rd</sup> floor, Academic Building Sri Ramachandra Institute of Higher Education and Research No.1 Ramachandra Nagar, Porur, Chennai India. 600116 Phone: 7200245971
Date of Birth	12-06-1978
Academic Qualification	M.Sc Human Genetics (India), Dr. rer.nat Haemato-Oncology (Germany)
Fellow of Academies, (mention names of academies, if any)	NA
H-index	24 (Google Scholar)
Domain Expertise	Redox biology, tumor metabolism, inflammation

**List of publications since 01-01-2017 (selected out of 39)**

Publication details in AMA style	Impact factor
Murali R, Balasubramaniam V, Srinivas S, et al. Deregulated Metabolic Pathways in Ovarian Cancer: Cause and Consequence. <i>Metabolites</i> . 2023;13(4). *Corresponding author	5.5
Ganesh JM, P P, Dharmarajan A, Warriar S, Gandhirajan RK. Modulation of reactive oxygen species in cancers: recent advances. <i>Free Radic Res</i> . 2022;56(5-6):447-470. *Corresponding author	4.2
The amino acid metabolism is essential for evading physical plasma-induced tumour cell death. <i>Br J Cancer</i> . 2021 May;124(11):1854-1863. *Corresponding author	9.0
Gandhirajan RK NE, Sander Bekeschus. Zebrafish larvae as a toxicity model in plasma medicine. <i>Plasma Processes and Polymers</i> . 2020 *First author.	3.8
Bekeschus S, Eisenmann S, Sagwal SK, et al. xCT (SLC7A11) expression confers intrinsic resistance to physical plasma treatment in tumor cells. <i>Redox Biol</i> . 2020;30:101423. *Corresponding author	11.7
Sagwal SK, Pasqual-Melo G, Bodnar Y, Gandhirajan RK, Bekeschus S. Combination of chemotherapy and physical plasma elicits melanoma cell death via upregulation of SLC22A16. <i>Cell Death Dis</i> . 2018;9(12):1179. *Corresponding author	9.6
Gandhirajan RK, Rodder K, Bodnar Y, et al. Cytochrome C oxidase Inhibition and Cold Plasma-derived Oxidants Synergize in Melanoma <i>Cell Death Induction</i> . <i>Sci Rep</i> . 2018;8(1):12734. *Corresponding author	4.9
Bekeschus S, Rodder K, Fregin B, et al. Toxicity and Immunogenicity in Murine Melanoma following Exposure to Physical Plasma-Derived Oxidants. <i>Oxid Med Cell Longev</i> . 2017;2017:4396467. *Last author	6.7

(\* Publications as first, last or corresponding authors)

**List of projects undertaken since 01-01-2019**

Short title of the project	Primary objective (in brief)	Type of study (e.g. RCT / Prevalence/Lab-based)	Funding agency	Grant amount	Time period
Role of Tumor derived Heme in cancer progression	The role of tumor secreted heme in the tumor microenvironment and its role in treatment outcome in oral cancers	Lab /clinic based	DBT	39 Lakhs	Provisionally approved (2022)