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Research Interests: Respiratory chain complexes in Mycobacteria, Target discovery, Cryo-EM, Biomarkers

Educational Qualifications:

<i>S. No</i>	<i>Degree</i>	<i>Year</i>	<i>University</i>
1.	PhD, Molecular Medicine	2011	Special Centre for Molecular Medicine, JNU, New Delhi-India
2.	M.Sc, Life Sciences	2004	Jawaharlal Nehru University, New Delhi
3.	BSc.BEd (integrated)	2002	Regional Institute of Education/MSDU Ajmer

Experience:

1. **2020 – Present-** Assistant Professor, Department of Biotechnology, Central University of Haryana, Mahendragarh, Haryana
2. **2018- 2020 -** Assistant Professor, Department of Sports Bioscience, Central University of Rajasthan, Bandarsindri, Ajmer, Rajasthan
3. **2016 - 2018:** Researcher, Department of Biochemistry and Biophysics, Stockholm University, Sweden.
4. **2011- 2015:** Postdoctoral Fellow (Wennergren Foundation), Department of cell and molecular biology, Uppsala University, Sweden.

Publications:

1. **Ram Gopal Nitharwal***, Benjamin Wiseman*, Olga Fedotovskaya, et al. (2018) Structure of a functional obligate complex III IV respiratory supercomplex from *Mycobacterium smegmatis*. *Nature Structural & Molecular Biology*, 25, 1128–1136. * **Equal first author**
2. Isao Masuda, Takao Igarashi, Reiko Sakaguchi, **Ram G Nitharwal**, Ryuichi Takase, et al. (2016) A genetically encoded fluorescent tRNA is active in live-cell protein synthesis. *Nucleic Acids Research*, 45 (7), 4081-4093.

3. V Verma, A Kumar, **RG Nitharwal**, J Alam (2016) Modulation of the enzymatic activities of replicative helicase (DnaB) by interaction with Hp0897: a possible mechanism for helicase loading in *Helicobacter pylori*. *Nucleic acids research*, 44 (7), 3288-3303.
4. Singh B, **Nitharwal RG**, Ramesh M, et al. (2013) Asymmetric growth and division in *Mycobacterium* spp.: compensatory mechanisms for non-medial septa. *Mol Microbiol.* 88(1):64-76.
5. Pettersson BM, **Nitharwal RG**, Das S, et al. (2013) Identification and expression of stressosomal proteins in *Mycobacterium marinum* under various growth and stress conditions. *FEMS Microbiol Lett.* 342(2):98-105.
6. **Nitharwal RG**, et al. (2012) DNA binding activity of *Helicobacter pylori* DnaB helicase: the role of the N-terminal domain in modulating DNA binding activities. *FEBS J.* 279(2):234-50. **Cover page paper.**
7. **Nitharwal RG**, et al. (2010) *Helicobacter pylori* chromosomal DNA replication: current status and future perspectives. *FEBS Lett.* 585(1):7-17.
8. **Ram G. Nitharwal***, Atul Sharma* et al. (2009) *Helicobacter pylori* single-stranded DNA binding protein-functional characterization and modulation of *H. pylori* DnaB helicase activity. *FEBS Journal*, 276 519-531. * **Equal first author**
9. Kashav T, **Nitharwal R**, et al. (2009) Three-dimensional structure of N-terminal domain of DnaB helicase and helicase-primase interactions in *Helicobacter pylori*. *PLoS One*, (10) :e7515
10. **Ram Gopal Nitharwal**, et al. (2007) The domain structure of *Helicobacter Pylori* DNA B helicase: The 'N' Terminal domain can be dispensable for Helicase activity whereas the extreme 'C' terminal region is essential for its function. *Nucleic Acids Research*, 35(9), 2861–2874.
11. Ashish Gupta, Parul Mehra, **Ram Gopal Nitharwal**, et al. (2006) Analogous expression pattern of *Plasmodium Falciparum* Replication initiation proteins PfMCM4 and PfORC1 during the asexual and sexual stages of intraerythrocytic developmental cycle. *FEMS Microbiology Letter*, 261, 12-18.

Presentations and Posters

- **First Prize** poster presentation at international seminar- 'Antimicrobial Drug Resistance and the Development of New Antibiotics', Nov 22-25, 2007, jointly held by Indian National Science Academy and German Academy of Science Leopoldina at New Delhi.
- Presentation at 6th Rajasthan Science Congress 13-15 Oct 2018, at Central University of Rajasthan.
- Invited lecture at Department of Biochemistry Central University of Rajasthan, April 4, 2018.
- Presentation at 'Architecture and Functional Dynamics of the Cellular Power Plant' Meeting at Sigstunastiftelsen, Sigtuna September 30 – October 1, 2016.
- Poster presentation at International symposium on aminoacyl-tRNA synthetases, Barcelona, Spain, 18 OCT 2015 - 22 OCT 2015.

