

Dr. Ravi Kumar, PhD

Assistant Professor, Department of
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Research Interests

Bioinformatics, HIV Sequences analysis, Web server and Database developments, NGS data analysis.

Academic Qualifications

- 2008-2014 PhD Bioinformatics
Bioinformatics Centre, Institute of Microbial Technology (IMTECH), Chandigarh.
Title: Development of *in silico* tools for understanding HIV-Human interactions and designing of therapeutics against HIV.
Supervisor: Dr. GPS Raghava
- 2005-2007 M.Sc Biomedical Sciences
Dr. B R Ambedkar Centre for Biomedical Research (ACBR), University of Delhi, Delhi.
- 2002-2005 B.Sc (Botany, Zoology and Chemistry).
University College, KUK, Kurukshetra.

Research Experience

- 2020 – Present: Assistant Professor, Dept. of Biotechnology, Central University of Haryana, Mahendergarh.
- 2017 – 2020: Visiting fellow at the National Institute on Alcohol Abuse & Alcoholism (NIAAA), National Institutes of Health (NIH), Rockville, Maryland, USA.
- 2014 - 2017: Postdoctoral fellow at the Walter Reed Army Institute of Research (WRAIR), Henry M Jackson Foundation (HJF), Silver Spring, Maryland, USA.

Publications

1. **Kumar, R.**, Panwar, B., Chauhan, J. S. & Raghava, G.P.S (2011) Analysis and prediction of cancerlectins using evolutionary and domain information. *BMC research notes* 4, 237.
2. **Kumar R**, Raghava GPS (2013) Hybrid Approach for Predicting Coreceptor Used by HIV-1 from Its V3 Loop Amino Acid Sequence. *PLoS ONE* 8(4): e61437.
3. **Kumar R**, Chaudhary K, Sharma M, Nagpal G, Chanuhan JS, Singh S, Gautam A & Raghava GPS (2015) AHTPDB: a comprehensive platform for analysis and presentation of antihypertensive peptides. *Nucl. Acids Res.* 43(D1):D956-D962.
4. **Kumar R¹**, Chaudhary K¹, Chauhan JS¹, Nagpal G¹, Kumar R¹, Sharma M¹, GPS Raghava¹(2015) An in silico platform for predicting, screening and designing of antihypertensive peptides. *Sci. Rep.* 015 Jul 27; 5:12512.
5. Ehrenberg P, Geretz A, **Sindhu RK**, et al.(2017) High-throughput next-generation sequencing to genotype six classical HLA loci from 96 donors in a single MiSeq run. *HLA*, 90, 284-291.
6. Maggie et al. (2017) Early rearing history influences oxytocin receptor epigenetic regulation in rhesus macaques. *PNAS*, 44:11769-11774.