

## Arnav Kumar Upadhyay

LinkedIn: <https://www.linkedin.com/in/arnavu/> | [arnav.ku.upadhyay@email.com](mailto:arnav.ku.upadhyay@email.com) | Mob- +91 9650237371

### EDUCATION

<b>Institute of Bioinformatics and Applied Biotechnology (IBAB)</b> , Bangalore, India Post Graduate Diploma   Big data Biology	Jan 2021 - Jan2022
<b>Tel Aviv University</b> , Tel-Aviv, Israel Research Scholar   Phylogeny, Transcriptomics	Sep 2018 - Sep2020
<b>Gautam Buddha University (GBU)</b> , Noida, India B. tech + M. tech Integrated   Biotechnology	July 2013 – July 2018

### WORK EXPERIENCE

<b>Medgenome</b> , Bangalore, India <b>Bioinformatics Analyst</b> <ul style="list-style-type: none"><li>Developed and Integrated pipeline using nextflow and GNU make</li><li>Supported clinical bioinformatics team (Resolving JIRA, Redmine issues)</li><li>Created scripts for data processing using python and MySQL</li></ul>	Jan 2022 – Current
---	--------------------

### Publication/Projects

<b>IBAB, IIIT- Bangalore</b> , India <ul style="list-style-type: none"><li>Defining Digital RNA signature through Circulating Tumour Cells for scoring stemness and therapeutic resistance in Breast Cancer Patients <b>GitHub</b> - <a href="https://github.com/hmalavia/Genomics-Project-IBAB-2021">https://github.com/hmalavia/Genomics-Project-IBAB-2021</a></li></ul>	Dec 2020 – Dec 2021
<b>Tel Aviv University</b> , Tel-Aviv, Israel <ul style="list-style-type: none"><li>And then there were three...: Extreme regeneration ability of the solitary chordate <i>Polycarpa mytiligera</i> Gordon et al (<b>Front. Cell Dev. Biol</b>), 2021, 9, 793 DOI: <a href="https://doi.org/10.3389/fcell.2021.652466">https://doi.org/10.3389/fcell.2021.652466</a></li><li>Phylogenetic relationships of Aplousobranchia (Tunicata) based on mitochondrial genomes <b>Arnav Kumar Upadhyay</b>, Noa Shenkar, Dorothée Huchon, Dec 2019 (ISEB2019-Tel-Aviv) <b>Poster presentation</b> - <a href="https://www.iseb.org.il/previous-conference/2019-conference/">https://www.iseb.org.il/previous-conference/2019-conference/</a></li></ul>	Sep 2018 - Sep2020
<b>Gautam Buddha University (GBU)</b> , Noida, India <ul style="list-style-type: none"><li>Interspersed 5'cis-regulatory elements ascertain the spatio-temporal transcription of cytoskeletal profilin gene family in Arabidopsis, Upadhyay <i>et al</i> (<b>Comput Biol Chem</b>), 2019, 80, 177-186 DOI: <a href="https://doi.org/10.1016/j.compbiolchem.2019.03.023">https://doi.org/10.1016/j.compbiolchem.2019.03.023</a></li><li>CytoMegalovirus Infection Database: A Public Omics Database for Systematic and Comparable Information of CMV Kaushik <i>et al</i>, (<b>Interdiscip Sci: Computational Life Sciences</b>), 2020, 12, 2, 169-177 DOI: <a href="https://doi.org/10.1007/s12539-019-00350-x">https://doi.org/10.1007/s12539-019-00350-x</a></li></ul>	Jan 2021 - Jan2022

### Skills & Interest

- Technical:** Python (scikit learn, pandas, NumPy), Bash, R (Statistical analysis, Data Visualization)
- Molecular biology:** DNA and RNA isolation, Plasmid isolation, SDS-PAGE, Cloning, PCR, spectrometry, NGS library preparation
- Microbiology:** Media preparation, Maintaining bacterial cultures
- Biological sequence analysis:** Single-cell RNA sequencing, Genomics, Transcriptomics, Phylogenetic analysis
- Version control and Ticket management system:** Git, SVN, JIRA, Redmine, OTRS, and LIMS
- Interest:** Evolutionary biology, Playing Football & Guitar, Pencil Sketching