CCMB’s contributions in COVID-19 mitigation

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| Activity | Starting date | Current status |
| Training | 22nd March | Trained over 200 people in CCMB and other organizations (medical hospitals, universities and research institutes) |
| Testing | 31st March | CCMB has tested about 25,000 samples so far. |
| Coronavirus culturing | 3rd April | The culture is used for vaccine and antisera development, and testing antiviral drugs and sanitization measures. |
| Genome sequencing of coronavirus | 6th April | Genomes of ~300 Indian isolates of coronavirus sequenced and submitted to GISAID. Found an uncharacterized population of coronavirus (Clade A3i), which had spread but eventually faded away. Finding submitted to [bioRxiv](https://www.biorxiv.org/content/10.1101/2020.05.31.126136v1). Finds the current prevalent strain in India matches the globally prevalent strain – Clade A2a. |
| Validation of COVID-19 testing kits | 13th April | CCMB has validated 15 products so far. |
| Development of dry swab one-step PCR test for COVID-19 | 20th May | Validated by DBT-CDFD and IISER-Berhampur. Posted preprint on Jun 1st. Sent recommendations to ICMR on Jun 4th. Approval still awaited from ICMR to use the method as an alternate testing method in India. Published in [Oxford Academic Biology Methods & Protocols](https://academic.oup.com/biomethods/advance-article/doi/10.1093/biomethods/bpaa017/5894966). |
| Multiple partnerships with industries | May | Partners with VINS BioProducts, INTEL, IIIT, Bharat Biotech, Syngene among others in developing COVID-19 testing methods and therapeutics |
| Development of NGS-based COVID-19 testing | June | Pilot run in Telangana and Karnataka with (x) number of samples |
| Hybridoma preparation for antibodies against SARS-CoV-2 | June | Monoclonal and polyclonal antibodies are in development |
| Wastewater-based COVID-19 mass surveillance | 1st July | Estimates at least 6% of Hyderabad’s population has shed the coronavirus in the month of July. Finding submitted to [medRxiv](https://www.medrxiv.org/content/10.1101/2020.08.18.20177428v1). |