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## Recent Activities under Biotechnology Division

### I. Combating Covid-19

Prepared about 80 litre of hand sanitizer and distributed to the frontline workers like police, health workers, safaikarmacharis. Awareness on Covid-19 through digital media was also done.



### II. Frontier research:

1. Molecular characterization of large cardamom cultivars using *matK* and *rbcL* gene.
2. Morphological and molecular identification of fungus associated with large cardamom blight disease.
3. Algal biodiversity of high altitude lakes of Sikkim.
4. Molecular indexing of viral disease associated with large cardamom.
5. Recent gene sequence submission in NCBI: 21 gene sequences.

### III. Field activities:

1. Developed demonstration farm of large cardamom for training and propagation at Sajong Biotech centre.

#### IV. Intellectual Property Rights:

1. Registered one rice variety under protection of plant variety and farmer's rights:  
Kailash Rana rice variety.



2. Patent filed:01
3. GI filed: 01
4. IPR cell: 08 IPR cell opened in colleges and universities.
5. Awareness activities: 02 in engineering college
6. GI in pipeline: 04