

Recording... LIVE on Facebook

## About Venture Center

**Mission:**  
To incubate and nurture technology and knowledge based enterprises for India by leveraging the scientific and Engineering competencies of the institutions in the region.

**Thrust Areas:**  
Innovative enterprises, Specialty Therapies, Research, Biotech, Health care, Social enterprises, Energy, environment, ventures, Materials, Space, defense, products.

**First Incubator in CSIR**

**BIRAC BioNEST**  
BIRAC Regional Bioinnovation Centre  
BIRAC SPARSH Centre

**NIDHI Centre of Excellence**  
National implementation partner for NIDHI-EIR

## Venture Center Programs

**Incubation**  
Mentoring  
Physical space  
Resources  
Networks & referrals

**INVESTMENTS**  
Seed investments  
Government grants  
CSIR  
PII-grants

**SOCIAL INNOVATIONS**  
Social Bioinnovation program  
BIRAC-UI

**SCIENTIFIC INITIATIVES**  
CSIR  
Cell Studies  
Therapeutic Lab  
Therapeutic Lab & research of new products

**FUNDING PROGRAMS**  
Research Innovation Grant  
NIDHI-EIR  
NIDHI-EIR  
NIDHI-EIR

**Mugdha Lele**

**Neha K**


**Venture Center...**

**Premnath V**

Participants (46)

Find a participant

NK	Neha K (Co-host, me)		
VC	Venture Center, Monu, Pooja (Host)		
VC	Vijay Chandru (Co-host)		
ML	Mugdha Lele (Co-host)		
NP	Nikhil Phadke (Co-host)		
PV	Premnath V (Co-host)		
NK	Neha K (Co-host)		
AA	Anurag Agrawal		
AN	Ashwini Nangia		
DV	DESIKAN Varadan		
DS	Dr Satya Dath		




### Cost effective population screening and testing for Covid-19


**Vijay Chandru**  
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**Collaborators:** Charles Center, Manoj Gopalanishan, Anurag Agrawal, Bud Mishra, Lee Chou, Foy Sasei, Vanni Veeramachandeni

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Vijay Chandru




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### Assumptions:

A. We will need the ability to test campus populations (industry/colony/research park/academic campus) repeatedly for SARS-CoV2 RNA, Antigens, Antibodies until vaccination and inexpensive therapies become available


B. High Speed, Low Cost, Accessible Testing Platforms will soon be available

C. The cost of doing thorough testing at population scale "one individual at a time" is untenable. Will need to prioritize using intelligent systems:

- Smart Contact Tracing
- Modeling
- Pooling Strategies

D. Testing alone has proved no match for SARS-CoV2 once it overwhelms local governments' abilities to trace an infected person's contacts and forces those who were exposed to self-quarantine." US Experience reported in NY Times - CJ Bangalore as of 20-07-2020

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## Research & Development (Assay Development)

- Saliva as a Sample: Viral titer is high in most saliva samples; Patient can self test without discomfort; Repeated testing is practical. (CSIR, Strand/UCHicago, Rutgers/Lee Chou)
- RNA Extraction can be optimized 1-5 minute heat treatment (CSIR, Strand)
- Antibody tests can be done on a drop of blood - they can be self tested or tested by pairs of people helping each other
- Including viral clade identification as a part of the nucleic testing should be tried because it has great potential to make contact tracing much more definitive


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## Principles to Protect our Campus

1. Expect each Campus Member to assume personal responsibility to Protect Campus — myself, others, our community.
2. Implement personal health safety practices and protocols.
3. Enact health safety changes in physical spaces.
4. Offer a range of instructional options for students, staff and faculty.
5. Identify and protect the most vulnerable members of the community.
6. Engage our stakeholders with consistent, compelling and timely communication and clear guidance.
7. Advance our research mission in a safe and responsible way.
8. Anticipate and plan for contingencies.



Vijay Chandru



