Coordinated by the Office of Research Affairs
Sandra A. Brown
Miroslav Krstic
James McKerrow

October 26, 2020
Agenda

• COVID-19 Research and Interests (Steven Constable)
• Federal Executive Order Re: Diversity Training (VC Becky Petitt)
• Epidemiological Update (Chip Schooley)
• Campus Status and Safety Update (Angela Scioscia)
• COVID Management Team (Natasha Martin)
• Research Ramp Up Updates (VC Sandra Brown)
  • ORANGE PHASE STABILIZATION—prepare for change
• Federal Updates
  • International Students, Postdocs & Scholars (Roark Miller)
  • Federal Budget (Angela Diaz)
• Q&A
Pandemic Related Research at UC San Diego

A Series of Academic Workshops
“The distinctive mission of the University [of California] is to serve society as a center of higher learning, providing long-term societal benefits through transmitting advanced knowledge, discovering new knowledge, and functioning as a publicly-funded active working repository of organized knowledge...”

–Mission statement from the University of California Academic Plan, 1974
State-supported Academic Agency for Research

• The University of California's fundamental missions: teaching, research and public service; combining exceptional quality scholarship/education with broad access for students and public service.

• The California Master Plan for Higher Education designates UC as "the primary state-supported academic agency for research," charged with providing the highest quality both in research and in undergraduate, graduate and professional education.

• In times of crisis, the research mission of the university is most at risk of being under-appreciated or all together forgotten by the public!

• During the pandemic, UC research became a focus.
UC San Diego Pandemic-related Research: Powerful Engagement

- 479 publications from UC San Diego researchers that mention COVID
- 428 proposal submissions on topics broadly relevant to the pandemic from 48 departments
- $25.6M of research funding has been received focusing on pandemic issues
Series of Workshops: A Joint Senate + Administration Initiative

• Faculty-led themed workshops
• Showcasing our faculty’s scholarly contributions
• Encouraging cross-campus discussions and inquiries
• Initiating new cross-disciplinary discussion/critique/collaborations
Series of Workshops: Sample Topics

• Mathematical and statistical analysis of pandemics:
  • Study of multiple complex dynamical systems
  • Information theoretical and data scientific approach to testing and tracking
  • Algorithms with privacy and fairness guarantees.

• Social scientific questions:
  • COVID and health disparities
  • Behavior change and behavioral technologies

• Use-driven research and innovation:
  • Medical devices
  • Drug discoveries
  • Early identification technologies

• Historical perspective:
  • Resource inequities
  • History of medical discoveries and inequity
  • Pandemic related public policy changes
Becky R. Petitt, Ph.D.
Vice Chancellor for Equity, Diversity, and Inclusion

Diversity@ucsd.edu
https://diversity.ucsd.edu/
Executive Order: “Combating Race and Sex Stereotyping”

• Issued September 22, 2020

• Outlines various types of diversity trainings that are prohibited in the workplace for the military and other federally funded agencies, contractors, institutions and grantees.

• Applies to federal contracts granted 60 days from the Order (on or after November 21, 2020).

• Not a call for the end of ongoing diversity trainings.
  • Requires a review of current diversity workplace trainings for federally funded grants and contracts.
  • Not effective until review process is completed.
Executive Order: What Comes Next

• UC Legal Advisory dated September 28, 2020

• UC Legal and Federal Government Relations continue to monitor developments and implications of the Order. Additional guidance will be provided as it becomes available.

We remain steadfast in our commitment to equity, diversity, and inclusion and we will continue to fulfill our mission through cultivating a diverse and inclusive community that encourages respectful and open dialogue in an environment in which everyone can thrive.
New Confirmed COVID-19 Cases per Day

Cumulative Cases
- Global Cases: 43,238,481
- US Cases: 8,661,917
- California: 907,966
- San Diego Cty: 54,583

Global Deaths: 1,156,212
US Deaths: 225,379
Incubation Period (2 – 14 days)

Symptomatic Disease

Recovery Phase

Disease Stage | Duration | Symptoms | Detectable Virus | Infection Risk
---|---|---|---|---
Incubation Period | 2 – 14 days | No | No | No
Pre-symptomatic Shedding Phase | 2– 3 days | No | Yes | +++
Symptomatic Phase | 4 – 7 days (Variable) | Yes | Yes | ++
Recovery | Up to 90 Days | No | Intermittent | Minimal
VIRAL DETECTION

• Early detection
  • DAILY SCREENING!!
  • Symptomatic testing:
    • Same day testing at multiple sites throughout San Diego and Price Center on campus
    • Results 24-36 hrs
  • Actively looking for virus in wastewater samples
  • Asymptomatic screening
    • Employees: encouraged to test twice a month
    • Students: mandatory twice a month (>12d and <16d)
      • Greater rate asymptomatic disease and higher positivity age group
      • The testing policy applies to any student (grad or undergrad, no matter where they live) who comes onto campus for educational, research, co-curricular, social, or recreational activities.
      • “Educational” includes attending class as a student, but not teaching class as a TA.
New CDC guidance = Cumulative 15 minutes within 6 feet of someone who tests positive is considered a close contact;

Quarantine for 14 days may be required.
Daily tests and confirmed unique positive cases through Sunday, October 25, 2020
Includes results from tests conducted by UC San Diego Health and UC San Diego Student Health Services. Last updated 10/26/2020 7:00 AM

Student Daily Tests and Cases*

Campus Employees Daily Tests and Cases^
UC San Diego COVID Public Daily Dashboard

14-day rolling percentage of positive cases among tests by date reported

- Students
- Campus Employees
- San Diego County

Total cases last 7 Days

- 3 students residing on campus
- 7 students residing off campus in SD area
- 1 campus employee

Total number of student tests since March 1st, 2020: 36,228
Total number of campus employee tests since March 1st, 2020: 10,908

Average test result time
Includes student and campus employee tests
14.4 hours
7 Day Average

https://returntolearn.ucsd.edu/dashboard/index.html
UC San Diego COVID Public Daily Dashboard

Daily student tests and cases by on or off campus status
Includes clinical positive results from UC San Diego Health and UC San Diego Student Health Services testing. Includes UCSD Extension students coming on to campus for classes.

Student Daily Tests

Student New Cases

https://returntolearn.ucsd.edu/dashboard/index.html
# UC San Diego COVID Public Daily Dashboard

## Cumulative Cases since Fall 2020 instructional term start (October 1st)

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students diagnosed at UC San Diego</td>
<td>33</td>
<td>12 living on campus, 21 living off campus in SD area</td>
</tr>
<tr>
<td>Additional students reported to UC San Diego</td>
<td>6</td>
<td>1 living on campus, 5 living off campus in SD area</td>
</tr>
<tr>
<td>Campus employees diagnosed at UC San Diego</td>
<td>8</td>
<td>46 total since March 1, 2020</td>
</tr>
<tr>
<td>Additional campus employees reported to UC San Diego</td>
<td>2</td>
<td></td>
</tr>
</tbody>
</table>

118 total since March 1, 2020

## Campus Density

<table>
<thead>
<tr>
<th>Category</th>
<th>Count</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>Students living on campus</td>
<td>9,655</td>
<td>All Single Bedrooms</td>
</tr>
<tr>
<td>Students living off campus</td>
<td>30,131</td>
<td>39% live in the San Diego area</td>
</tr>
<tr>
<td>Class sections in person</td>
<td>6%</td>
<td></td>
</tr>
<tr>
<td>Isolation housing available</td>
<td>99%</td>
<td></td>
</tr>
<tr>
<td>Campus employees</td>
<td>18,798</td>
<td>% campus employees working on campus</td>
</tr>
<tr>
<td>% campus employees working on campus</td>
<td>20%</td>
<td></td>
</tr>
<tr>
<td>SYMPTOM SCREENING</td>
<td>TESTING</td>
<td>ISOLATION/QUARANTINE</td>
</tr>
<tr>
<td>----------------------------</td>
<td>--------------------------------------</td>
<td>---------------------------------------------</td>
</tr>
<tr>
<td>Trends in daily % positivity of symptom screen by campus group</td>
<td>Trends in daily new cases by group</td>
<td>Isolation dorm capacity and beds in use (# isolation, # quarantine)</td>
</tr>
<tr>
<td>Geographical location of screening and positive screens</td>
<td>Trends in daily test numbers</td>
<td># students isolating or quarantining in other residences</td>
</tr>
<tr>
<td></td>
<td>(asymptomatic, symptomatic)</td>
<td></td>
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<tr>
<td></td>
<td>Trends in daily rolling 14-day avg % test positivity by group</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Geographical locations of cases &amp; tests</td>
<td></td>
</tr>
<tr>
<td></td>
<td># of active outbreaks &amp; distribution of outbreak sizes</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Test turnaround time</td>
<td></td>
</tr>
<tr>
<td>WASTEWATER MONITORING</td>
<td></td>
<td></td>
</tr>
<tr>
<td># current positive and new positive manholes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Location of positive manholes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>HEALTHCARE INTERACTIONS</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cumulative COVID-19 related deaths by campus group</td>
<td></td>
<td></td>
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<tr>
<td>STUDENT CONDUCT</td>
<td></td>
<td></td>
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<tr>
<td>Student conduct reports</td>
<td></td>
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<tr>
<td>COUNTY EPI</td>
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<tr>
<td>Trends in daily new cases</td>
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<td></td>
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<tr>
<td>Trends in daily rolling 14-day avg % test positivity</td>
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<td></td>
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<tr>
<td>County triggers dashboard</td>
<td></td>
<td></td>
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<tr>
<td>CONTACT TRACING</td>
<td></td>
<td></td>
</tr>
<tr>
<td># cases under active investigation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% cases investigated within 24 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td># valid contacts under investigation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% first contact attempts of close contacts within 24 hours</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% completed interview within 24/48h</td>
<td></td>
<td></td>
</tr>
<tr>
<td>MODELING</td>
<td></td>
<td></td>
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<tr>
<td>Campus effective reproduction number</td>
<td></td>
<td></td>
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<tr>
<td>MEDIA</td>
<td></td>
<td></td>
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<tr>
<td>Social and community media</td>
<td></td>
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</tr>
</tbody>
</table>
6,058 Approved for On-Site Access

- 535, 9%
- 876, 14%
- 311, 5%
- 513, 9%
- 1797, 29%
- 1249, 20%
- 877, 14%

**Buildings with MOST Researchers**

- ACTRI
- BRF II
- SME Bldg
- Pacific Hall
- Atkinson Hall
- Sanford Consortium
- Leichtag
- Natural Sciences
- Sciences
- Jacobs Hall
- Center
- Urey Hall
- Powell-Focht
- Skaggs Pharm
- Stein Clinical Research
- Engineering II
- CMM East
- Tata Hall

- PI
- Other Academic
- Non-Academic Staff
- Postdoctoral Scholar
- Graduate Student
- Undergraduate
- Other
Research Ramp Up: Increasing Flexibility at the 25% level

- UCSD required by County to maintain 25% cap
  - Minimum physical distance between personnel remains 6 feet
  - Face Coverings (or other approved PPE) except when working alone in office with closed door
  - Ongoing sanitation of commonly-touched surfaces, work areas
- Increased flexibility re: space required for each person
  - Up to 2 persons can work simultaneously per bay, aisle, or bench
  - In open settings and offices, 1 person per 150 square feet
- As a proxy for 25% cap, you may use:

\[
\frac{\text{operational research space (sq ft)}}{150 \text{ (sq ft)}} \times \frac{1000 \text{ (sq ft)}}{150 \text{ (sq ft)}} = 6.6, \text{ rounded down to 6}
\]
Ramping Up on-site research: Plan now

Plan now for LATER increasing to 50% and 75%

• Add personnel to your approved plan for “Yellow Phase” (50% and 75% options)

  NO plan? - Now is the time

• We will contact PIs to instruct as to process

• Additions will require review and approvals from department chair and dean (or equivalent)

• CURRENTLY it is still not possible to increase on-site personnel above approximately 25%
Federal Updates

Roark Miller
Director, International Faculty & Scholars Office

Angela Phillips Diaz
Executive Director, Government Research Relations
International Scholars/Students

• Continuing COVID travel restrictions impacting students and scholars to 12/31/20 (possible extension)
  • Travelers who intend to return may need letter from department requesting a “national interest exception”
  • Contingency plans may need to be developed

• Still waiting on federal agency guidance on requirements for in-person coursework for winter term

• PROPOSED rule eliminating “Duration of Status” for F-1 students, J-1 students/scholars, and their dependents
  • Would limit admission periods of our students and researchers to the U.S. to two-year maximums
  • Extensions will require federal agency filing, fees, biometric collection, and adjudication

• New Interim Final Rules on H-1B published
  • 20% - 40% increase for prevailing wage rates for non-represented positions (faculty, IT staff); effective for all H-1B petitions filed in the future
  • H approval periods limited to one year for those placed at facilities not owned/operated by UCSD

• Premium Processing fee for H-1B/Permanent Residency petitions to $2500 (Oct. 19)

For advocacy efforts, see https://ispo.ucsd.edu/news/advocacy.html
UC San Diego FY2020 Federal Funding (Direct)

Total: 1,330.9M

Federal
NIH 481.0M
NSF 134.8M
DOD 120.2M

Non-Federal
506.4M

Other 27.0M
NOAA 29.4M
DOE 20.9M
NASA 11.1M

UCSD FY2020 Overall Funding (Direct)

Federal 824.5M
Non-Federal 506.4M

Total: 1,330.9M

824.5M

481.0M
134.8M
120.2M
## Federal Funding & Policy Landscape

### Challenges
- FY2021 appropriations
  - Continuing Resolution until December 11, 2020
- COVID-19 impacts
  - COVID-19 relief measures

### Uncertainties
- Presidential election
- Congressional changes
- Administration policies & Executive Orders
- FY2022 budget process

### Opportunities
- FY2021 funding solicitations
- Researcher input to national policy initiatives (NASEM, NSF, etc.)
Q&A

On the call to answer questions today:

Continuity of Research Task Force Chairs: Miroslav Krstic and Jim McKerrow
Return to Learn, Campus Safety, Epidemiology: Angela Scioscia, Cheryl Anderson, Chip Schooley, Natasha Martin
Equity, Diversity, and Inclusion: VC Becky Petitt
International Students, Scholars, Postdocs: Roark Miller, Dulce Dorado, Jennifer Bourque
Federal Legislation: Angela Phillips Diaz
Student Affairs: VC Alysson Satterlund

Animal Care: Phil Richter
EH&S: Lance Scott
Government Relations: Angela Phillips Diaz, Kaitlin Chell
Human Resources: Terri Winbush

IRB/Human Subjects Research: Kip Kantelo, Eric Mah
Research Compliance & Integrity: Angie McMahill
Research Ramp Up Platform: Faith Hawkins, Ayla Nejad
Student Affairs: Ben White