WHEN SARS-COV2 GIVES YOUR RESEARCH CAREER LEMONS



Helen and Arthur E. Johnson Depression Center

UNIVERSITY OF COLORADO ANSCHUTZ MEDICAL CAMPUS



Department of Psychiatry

SCHOOL OF MEDICINE

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BRAIN HEALTH for all, for life.



COVID and RESEARCH

Critical considerations
Thinking outside the box
Getting back to the lab
Examples of lemonade



Privilege is Accentuated

Senior investigators

- established reputation
- well funded
- have data
- have power, more likely to be male
- financial security

Extreme stress

- unconscious bias in decision-making
- progressive initiatives can suffer

R. Yu, Stress potentiates decision biases: A stress induced deliberation-to-intuition (SIDI) model. Neurobiol. Stress 3, 83–95 (2016).

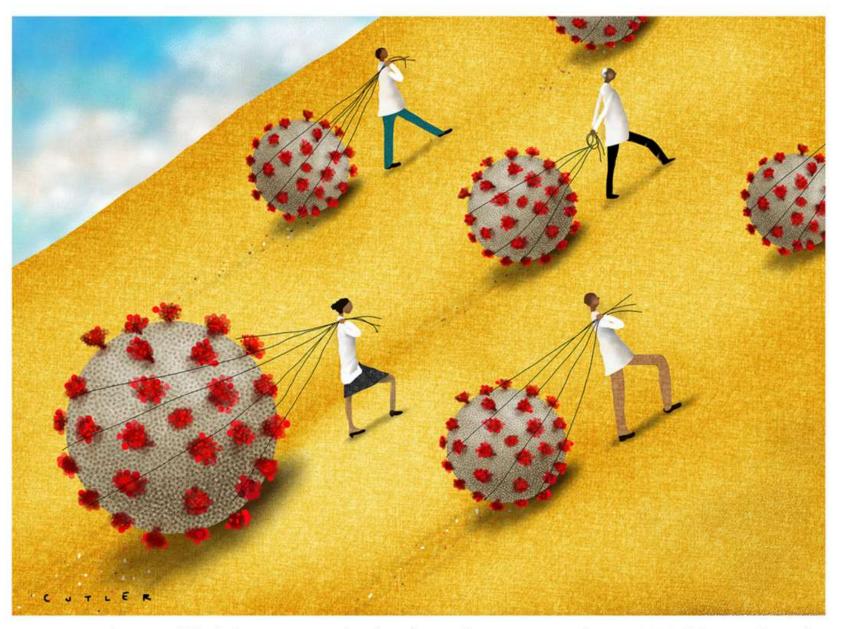
M. Goulden, M. A. Mason, K. Frasch, Keeping women in the science pipeline. Ann. Am. Acad. Pol. Soc. Sci. 638, 141–162 (2011).

In the wake of COVID-19, academia needs new solutions to ensure gender equity

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The coronavirus disease 2019 (COVID-19) pandemic has upended almost every facet of academia (1). Almost overnight the system faced a sudden transition

to remote teaching and learning, changes in grading systems, and the loss of access to research resources. Additionally, shifts in household labor, childcare,



Many women academics will likely bear a greater burden during the coronavirus disease 2019 (COVID-19) pandemic. Academia needs to enact solutions to retain and promote women faculty who already face disparities regarding merit, tenure, and promotion. Image credit: Dave Cutler (artist).

15378–15381 | PNAS | July 7, 2020 | vol. 117 | no. 27 www.pnas.org/cgi/doi/10.1073/pnas.2010636117

Caregiving

Heavier Burden for Early Career Scientists

Closed pre-schools

Home schooling

Lower salaries

Greater mental health concerns



Nicola Byrum: COVID-19 and the Research Community: The Challenges of Lockdown for Early-Career Researchers, Institute of Psychiatry, Psychology and Neurosciences, Kings College London

What about a review?

Maybe I can address my aims another way Does my mentor have data?

> Can I learn a new task/area?



UF Clinical Research Resumption Plan					
RESEARCH LOCATION	Stage 0	Stage I	Stage 2	Stage 3	Stage 4
Outpatient*					
Allowed Research	Therapeutic (Life Threatening) COVID-19	Therapeutic (All) COVID -19	Interventional (All) Diagnostic/Screening COVID -19	Interventional (All) Observational (All) COVID -19	 Gradual return to all activities
Allowed Research Visits	Life Threatening COVID-19	Concurrent with Clinical	Research-Only	Site Initiation Monitoring	- All
Mask Requirements**	Surgical	Surgical	Surgical	Surgical	• TBD
Max. Occupancy Limits***	Social Distancing	Social Distancing	Social Distancing	Social Distancing	■ TBD
Inpatient*					
Allowed Research	Therapeutic (Life Threatening) COVID -19	Therapeutic (All) COVID -19	Interventional (All) Diagnostic/Screening COVID -19	Interventional (All) Observational (All) COVID -19	 Gradual return to all activities
Allowed Research Visits	Life Threatening COVID-19	Concurrent with Clinical	Research-Only	Site Initiation Monitoring	- All
Mask Requirements **	Surgical	Surgical	Surgical	Surgical	• TBD
Max. Occupancy Limits***	Social Distancing	Social Distancing	 Social Distancing 	 Social Distancing 	■ TBD
Patient Care Areas (Research	n-Only)*				
Allowed Research	Therapeutic (Life Threatening) COVID-19	Therapeutic (Life Threatening) COVID -19	 Interventional (All) Diagnostic/Screening COVID -19 	Interventional (All) Observational (All) COVID -19	 Gradual return to all activities
Allowed Research Visits	Life Threatening; COVID-19	Life Threatening; COVID-19	Research-Only	Site Initiation Monitoring	• All
Mask Requirements **	Surgical	Surgical	Surgical	Surgical	■ TBD
Max. Occupancy Limits***	Social Distancing	Social Distancing	Social Distancing	Social Distancing	• TBD
Community-Based Research		7.34			
Allowed Research	COVID Screening Remote Only	COVID Screening Remote Only	 Interventional 	Interventional Observational	 Gradual return to all activities
Allowed Research Visits	None	None	Research-Only	Site Initiation Monitoring	- All
Mask Requirements **	Not applicable	Not Applicable	Surgical	Cloth	• None*
Max. Occupancy Limits***	Not applicable	Not Applicable	• TBD	• TBD	TBD
External Factors that Influence Stage Transitions	Active COVID-19 cases in community Limited testing & contact tracing Umited availability of PPE Stay-at-home directives in place for region	Active COVID-19 cases in community but within manageable capacity for healthcare system Testing and contact tracing available PRE pupilable	Active COVID-19 cases in community but within manageable capacity for healthcare system Testing and contact tracing available	Active COVID-19 cases in community but within manageable capacity for healthcare system Testing and contact tracing available PBE available	Active COVID-19 cases in community but within manageable capacity for healthcare system Testing and contact tracing available PDE mailable

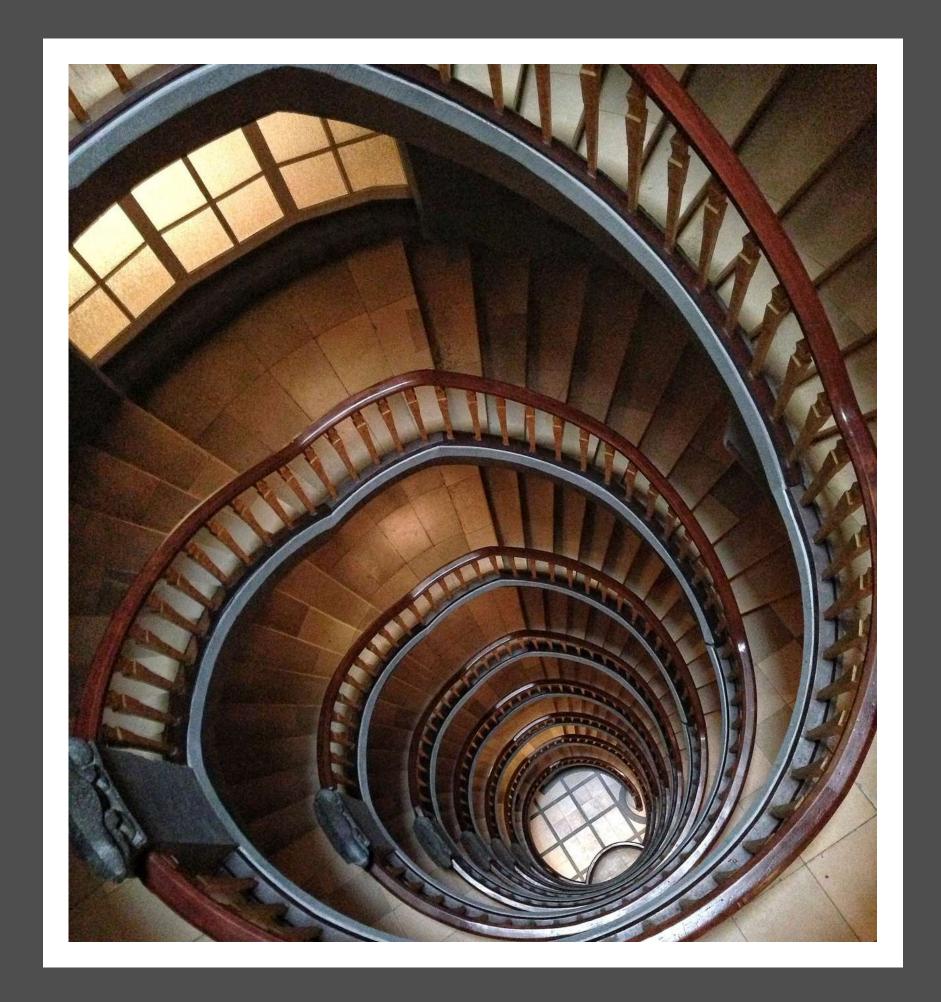


University of Florida College of Medicine

COVID-19 Research

Research Administration







What about a review?

Maybe I can address my aims another way

Andrew M. Novick, MD, PhD Stress, Reproductive Hormones and Reward Processing Does my mentor have data?

Can I learn a new task/area?

What about a review?

Maybe I can address my aims another way

NAME OF TAXABLE PARTY.

Does my mentor have data?

> Can I learn a new task/area?

Christina Metcalf, PhD
Early Life Stress, Mood and Cognition
at Reproductive Transitions

What about a review?

Maybe I can address my aims another way



Neill Epperson, MD Jill of All Trades Does my mentor have data?

> Can I learn a new task/area?

Virtual Recruitment

Research Match
PsychPro
Patient Advocacy Organizations
Social Media
Mechanical Turk

Descriptive
Hypothesis generating
Can ask many questions
Data for multiple papers

Piloted a visual reward task

Created virtual stress test & methods for collecting biospecimens for endocrine and immune assays

Addressed a "bucket list" question in the general population of pre, peri, and postmenopausal (natural and surgical) women



What to do if you are sick

Monitor your symptoms.

BE HONEST WITH YOURSELF

DO NOT IGNORE POLICIES AND PROCEDURES.

THERE WILL BE MAJOR RAMIFICATIONS
IF YOU DO AND YOU ARE COVID+

SELF-ISOLATE

YOU'LL BE BACK TO WORK SOON ENOUGH!

