

MINUTES OF THE ANNUAL MEETING OF THE
BOARD OF DIRECTORS OF THE
UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION, INC.

April 23, 2020

In Open Session

Members of the University of Louisville Research Foundation Board of Directors met virtually at 2:00 p.m. on April 23, 2020, with members present and absent as follows:

Present: Ms. James Rogers, Chair
Ms. Bonita Black
Mr. Randy Bufford
Mr. Scott Brinkman
Mr. John Chilton
Dr. Raymond Burse
Ms. Sandra Frazier
Ms. Diane Medley
Ms. Mary Nixon
Mr. Jasper Noble
Mr. John Smith
Prof. Krista Wallace-Boaz
Dr. Ron Wright

From the
University: Dr. Neeli Bendapudi, President
Dr. Beth Boehm, Executive Vice President and University Provost
Dr. Kevin Gardner, Executive Vice President for Research and Innovation
Mr. Dan Durbin, CFO and Vice President for Finance
Mr. Thomas Hoy, General Counsel
Mr. Ralph Fitzpatrick, Vice President for Community Engagement
Mr. Vince Tyra, Vice President for Athletics and Athletic Director
Dr. Toni Ganzel, Vice President for Academic Medical Affairs
Dr. Faye Jones, Sr. Assoc. Vice President for Diversity and Inclusion
Mr. Mark Watkins, Sr. Associate Vice President for Operations
Ms. Mary Elizabeth Miles, CHRO & Assoc. Vice President for Human Resources
Ms. Sandy Russell, Vice President for Risk, Audit and Compliance
Mr. John Karman, Director of Media Relations, Communications & Marketing
Mr. Walter Newell, Treasurer/Controller
Dr. Toni Ganzel, Dean, School of Medicine
Mr. Kenny Klein, Senior Associate Athletic Director
Dr. Michael Mardis, Dean of Students & Vice Provost for Student Affairs
Ms. Brigid Gies, University Counsel
Dr. Rashmi Assudani, ACE Fellow
Dr. Gail DePuy, Special Assistant to the President & Associate Dean

Dr. Robert Keynton, Special Assistant to the President
Dr. Richard Germain, Associate Dean in the College of Business
Mr. Rehan Khan, Vice Provost and Chief Information Officer
Ms. Mary Alexander-Conte, Director of Disbursement Services
Mr. Mike Kramer, Director of Foundation Investment and Financial Mgmt.
Mr. Michael Marquette, Director of Financial Analysis
Ms. Beverly Santamouris, Director of Accounting and Reporting
Mr. Brian Soverns, Assistant Treasurer
Dr. Mahendra Sunkara, Director, Conn Center for Renewable Energy Research
Prof. Kandi Walker, Department of Communications
Dr. Ted Smith, Director of the Christina Lee Brown Envirome Institute
Ms. Jessica Murnock, Executive Officer to the President
Prof. Dan Popa, Department of Electrical and Computer Engineering
Ms. Connie Shumake, Associate Provost, Academic Planning & Accountability
Ms. Leslie Harper, Sr. Program Coord., Academic Planning & Accountability
Mr. Michael Wade Smith, Chief of Staff and External Affairs
Mr. Jake Beamer, Boards Liaison and Assistant Secretary

I. Call to Order

Chair Rogers called the roll. Having determined a quorum present, he called the meeting to order at 2:00 p.m.

Conflict of Interest Affirmation

The Chair reminded all members of the board of their responsibility to avoid conflicts of interest and appearances of conflicts of interest. He stated each member has received the agenda and related information for this Board of Directors meeting. Chair Rogers requested if any board member knows of any conflict of interest or appearance of conflict of interest with respect to any matter coming before the Board of Directors at this meeting, to please identify the conflict or appearance of conflict at this time.

No conflicts were identified.

Approval of Minutes, 10-24-2019

Dr. Wright made a motion, which Ms. Frazier seconded, to approve the minutes of the October 24, 2019 meeting. The motion passed.

II. Action Item: Election of 2020-2021 Officers

Chair Rogers read the following slate of officers, as approved by the Governance, Trusteeship, and Nominating Committee:

Slate of Officers for 2020-2021:

Chair	James Rogers
Vice Chair	Sandra Frazier
Treasurer	Diane Medley
Secretary	John Chilton
Assistant Secretary	Jake Beamer

Hearing no other nominations, Ms. Nixon made a motion, which Dr. Burse seconded, to approve the slate as presented.

The motion passed and the officers were elected.

III. Update from EVP for Research & Innovation

Chair Rogers welcomed Dr. Kevin Gardner to his first meeting of the Research Foundation Board of Directors.

Using the **attached** presentation, Dr. Gardner provided an update to the board that included information on sponsored research metrics (proposals submitted, number and monetary value of awards received, clinical trials, clinical research, expenditures); sponsored research support activity; innovation measures; and entrepreneurs in-residence.

Dr. Gardner highlighted the university's research-related responses to the COVID-19 pandemic including the delivery and processing of coronavirus testing to the Commonwealth, creation of 3D printed test swabs to fill the testing kit gaps due to a lack of personal protective equipment (PPE), licensing and usage of university-created technology believed to block the novel coronavirus from infecting human cells, identifying new therapeutic drugs, and the Co-Immunity Project.

A program housed within the Christina Lee Brown Envirome Institute, the Co-Immunity Project tests individuals for viral infection and antibodies, and provides convalescent plasma (blood) of those testing positive to the Center for Predictive Medicine to create therapies to be given to patients at area hospitals.

Dr. Gardner then fielded questions from board members.


Chair Rogers thanked Dr. Gardner for his update.

IV. Adjournment

Having no other business to come before the board, Ms. Nixon made a motion, which Mr. Noble seconded, to adjourn.

The motion passed and the meeting adjourned at 2:17 p.m.

Approved by:


Signature on file
Assistant Secretary

RECOMMENDATION TO THE
UNIVERSITY OF LOUISVILLE RESEARCH FOUNDATION, INC.
BOARD OF DIRECTORS REGARDING THE
ELECTION OF OFFICERS FOR 2020-2021

Governance, Trusteeship, and Nominating Committee – April 23, 2020
Board of Directors – April 23, 2020

RECOMMENDATION:

The Governance, Trusteeship, and Nominating Committee recommends the following for election:

Slate of Officers for 2020-2021:

Chair	James Rogers
Vice Chair	Sandra Frazier
Treasurer	Diane Medley
Secretary	John Chilton
Assistant Secretary	Jake Beamer

BACKGROUND:

Per the ULRF bylaws, the Chair, Vice Chair, Secretary, Treasurer, and other officers shall be elected annually by the Board of Directors.

COMMITTEE ACTION:

Passed X

Did Not Pass _____

Other _____

ps
Signature on file _____

ps
Assistant Secretary _____

BOARD ACTION:

Passed X

Did Not Pass _____

Other _____

ps
Signature on file _____

ps
Assistant Secretary _____

University of Louisville Research Foundation, Inc. Board of Directors

Executive Vice President for Research and Innovation Update

April 23, 2020

Sponsored Research Metrics

Fiscal Year	2017	2018	2019	2020 YTD
Proposals Submitted	1296	1109	1087	727
Sponsored Awards # Received	931	914	950	696
Sponsored Awards \$ Received	\$147,803,701	\$137,896,960	\$152,063,267	\$118,205,675
Clinical Trials & Clinical Research	\$25,541,408	\$20,324,313	\$13,139,291	\$21,425,719
Research Expenditures	\$177,588,462	\$176,653,538	\$173,461,248	N/A*
Awards Closed	499	225	466	753

* Research expenditures are inclusive of sponsored research and institutional research and are reported to the National Science Foundation at the close of the fiscal year.

Sponsored research support activity

- **12 COVID-19 related proposals totaling over \$23M**
- **Four COVID-19 related awards totaling approximately \$340,000 to date**
- **Seven research support agreements (non-disclosure agreements, data use agreements, etc.) for COVID-19 related projects**
- **Managing N95 mask decontamination program**

Innovation Measures 2015-2019

Commercialization EPI-Center

Invention Disclosures

94

Disclosures
in 2015

97

Disclosures
in 2016

72

Disclosures
in 2017

83

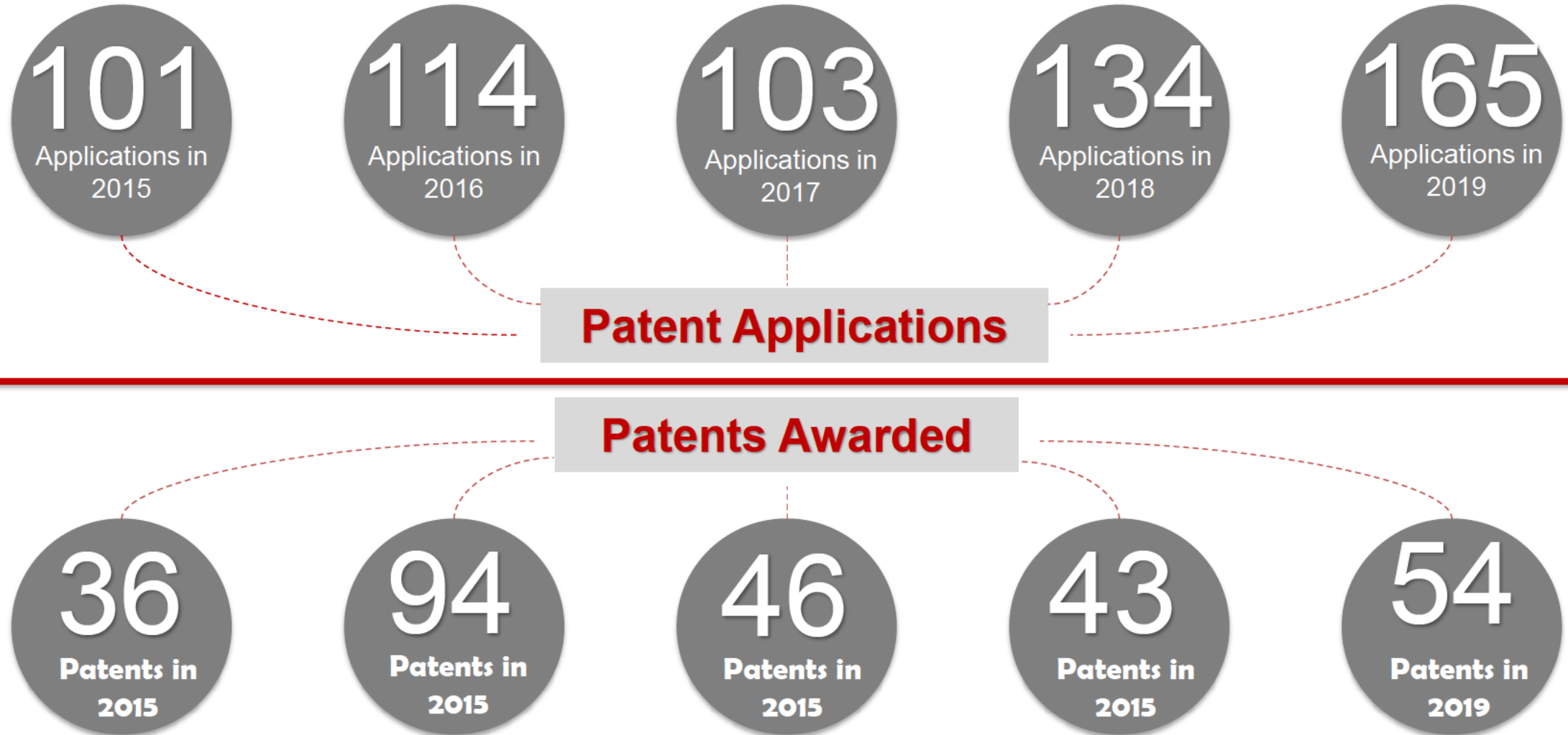
Disclosures
in 2018

98

Disclosures
in 2019

Innovation Measures 2015-2019

Commercialization EPI-Center



Innovation Measures 2015-2019

Commercialization EPI-Center

	ROYALTIES/LICENSE INCOME	ASSOCIATED INCOME	PATENT REIMBURSEMENT INCOME
2015	\$1,513,590	\$4,609,882	\$318,301
2016	\$343,195	\$5,270,681	\$330,144
2017	\$240,113	\$6,151,128	\$404,776
2018	\$2,993,130	\$1,777,285	\$357,899
2019	\$762,593	\$5,281,836	\$501,140

Entrepreneurs-in-residence

UofL hires health tech founder as entrepreneur-in-residence

The University of Louisville has hired seasoned healthcare startup founder, Alice Shade, to help guide research-backed inventions to market.



#FounderHunt event seeks entrepreneurs for UofL technologies

By BAYLEE PULLIAM - NOVEMBER 21, 2019 👁 308

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Drs. Holly Clark (left) and Sucheta Telang (right) pitch a technology at the 2019 #FounderHunt.

RECENT ARTICLES



April 22 Beer with a Scientist will be held via Facebook...



President Bendapudi announces additional actions in response to COVID-19



Updates provided to Staff Senate by President Bendapudi via videoconference

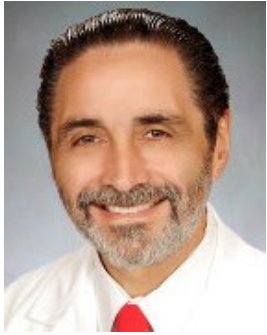


UofL's Black Diamond Choir provides 'space of peace' for 50 years



Six UofL student-athletes receive ACC service awards

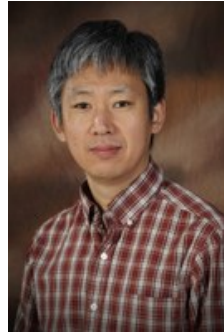
Delivering coronavirus testing to KY



Julio Ramirez



Ruth Carrico



Donghoon Chung

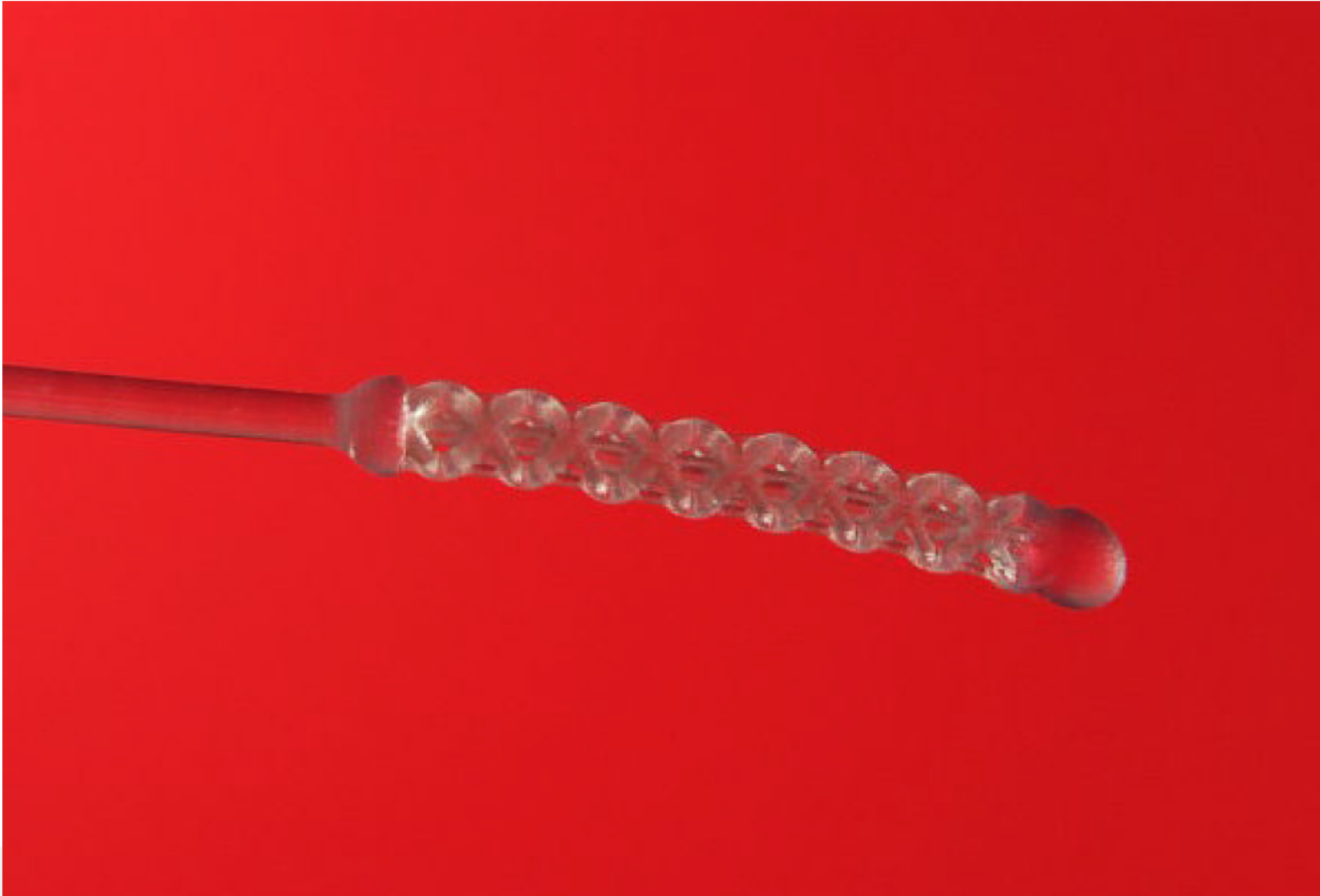


Kenneth Palmer

- UofL has ramped up its efforts to combat the deadly pandemic;
- Delivered thousands of results to all 15 major area hospitals and others across the state;
- Processing drive-up testing from UofL Health and others.



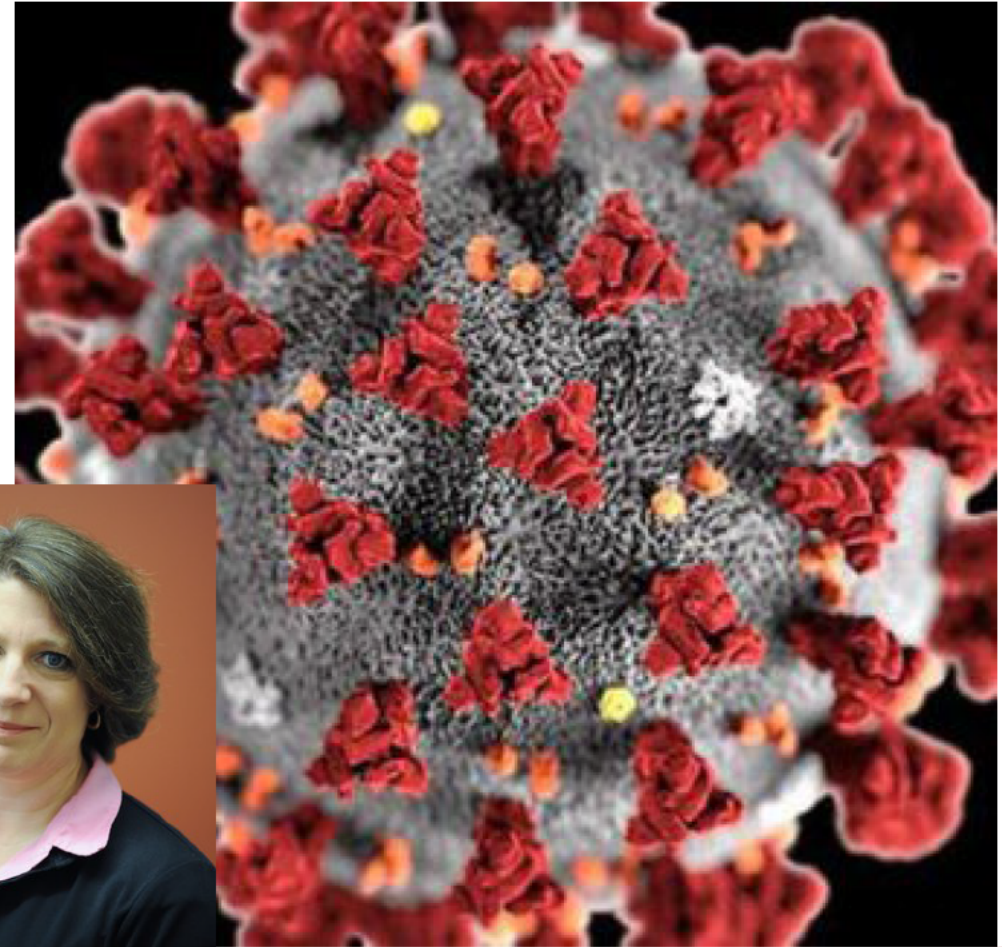
3-D Printed Swabs Fill Testing Kit Gap



- UofL created a 3-D printed swab made of a pliable resin material;
- Promising solution for the shortage of swabs in COVID-19 test kits in Kentucky;
- Collaboration: UofL's Additive Manufacturing Institute of Science & Technology (AMIST), Schools of Dentistry, Engineering and Medicine.

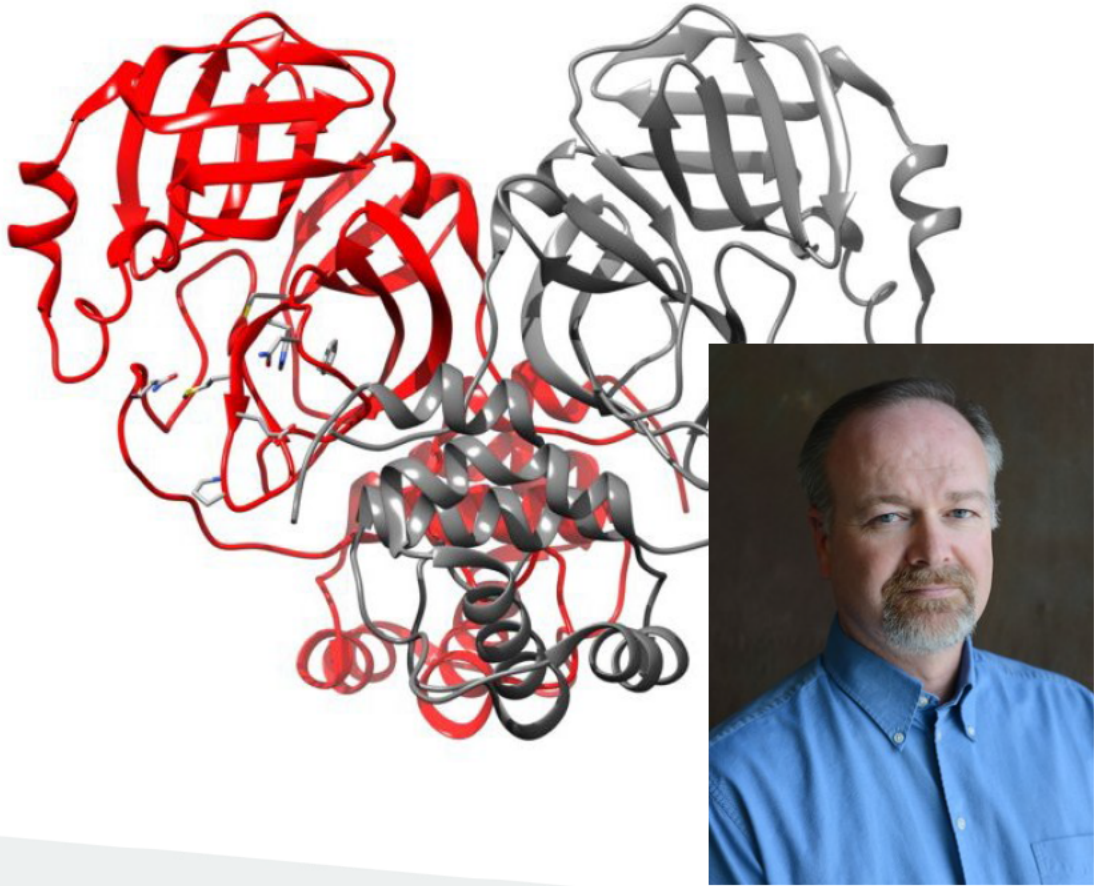
DNA tech for fighting novel coronavirus

- UofL technology is believed to block the novel coronavirus SARS-CoV-2 from infecting human cells
- Based on a piece of synthetic DNA -- an “aptamer” -- which targets and binds with a human protein that viruses hijack to replicate inside the body;
- Leverages Center for Predictive Medicine for Biodefense and Emerging Infectious Diseases (CPM) and Regional Biocontainment Lab;
- Licensed by a commercial partner and planning clinical trial.



Paula Bates

Seeking new drugs using computers in Kentucky schools



- UofL using the computing power of thousands of computers in classrooms across the state to identify drugs to treat COVID-19;
- Part of the DataSeamGrid, a network of computers housed in classrooms of 48 Kentucky school districts;
- Computers at work 24/7 to identify the most promising drugs and compounds to fight SARS-CoV-2 and its disease, COVID-19

John Trent

Tobacco compounds as therapeutic agents

- UofL exploring COVID-19 therapeutic agents that could be grown quickly in host tobacco plants;
- Compound is known as Q-Griffithsin;
- Co-owned by the university with the National Cancer Institute and the University of Pittsburgh;
- Strain could be the key to quickly mass-producing a preventive agent, treatment or vaccine for COVID-19;
- Leverages UofL's [Regional Biocontainment Laboratory](#) (RBL), housed in the CPM.



Kenneth Palmer

The Co-Immunity Project

PHASE I: TESTING HEALTH CARE WORKERS

Screen Health Care Workers at Norton, Baptist and UofL hospitals for Antibody and Viral Infection

Provide blood of those testing positive to Center of Preventive Medicine

Neutralizing titer of antibody > 80

Detailed Investigation

Convalescent Plasma Therapy in Area Hospitals

PHASE II: RANDOMIZED COMMUNITY TESTING

2,400 participants from 8 different geographic locations in Jefferson county to ensure that race, sex and age are represented in the sample in proportion to population distribution

Test antibody and viral infection to gauge true exposure, immunity and mortality to ease social distancing guidelines

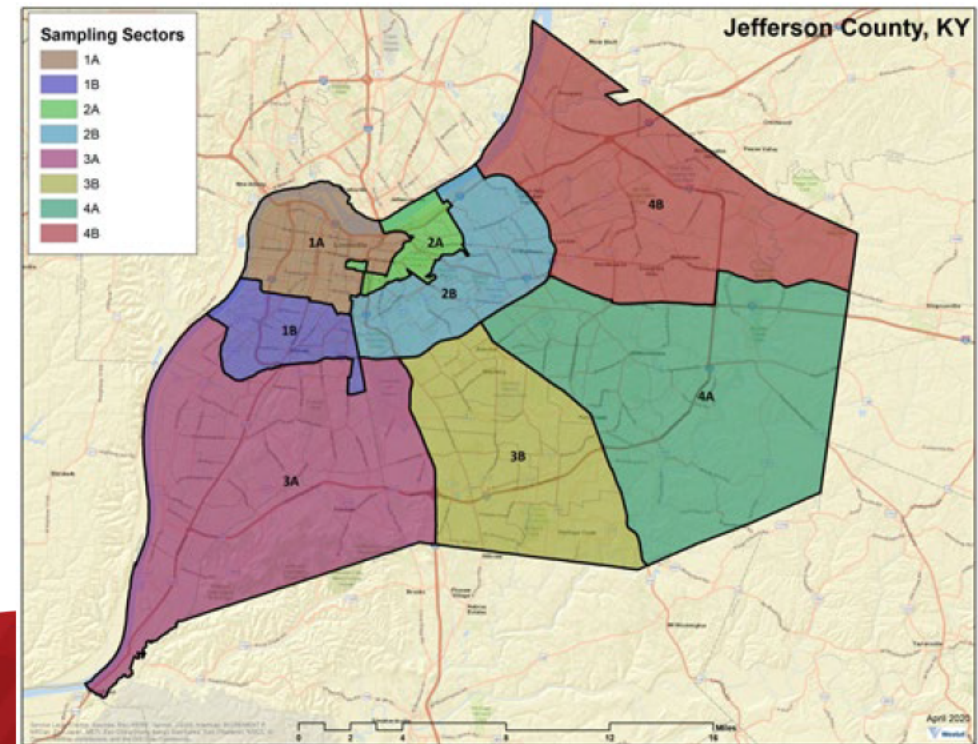
Extend the same procedure to the entire state of Kentucky

UNIVERSITY OF
LOUISVILLE

CHRISTINA LEE BROWN
ENVIROME INSTITUTE



Aruni Bhatnagar, Director



Questions?