



# MP3 Initiative: MP3 Awards

## 2019 Seed Grants (Award Start - 1/1/20)

*The sum of the parts: Understanding the interaction between individual and population immunity to dengue, viral diversity, and transmission dynamics.*

**Matthew Collins, MD, PhD (PI; Assistant Professor; SOM)**

Anne Piantadosi, MD, PhD (Assistant Professor; SOM)

Gonzalo Vazquez-Prokopec, PhD (Associate Professor; ECAS)

Award Total: \$250,000 over 2 years

*Microbiome organisms and natural immunity against pneumococcal disease.*

**Cynthia G. Whitney, MD (Professor, RSPH)**

Nadine Rouphael, MD (Associate Professor, SOM)

Jesse J. Waggoner, MD (Assistant Professor, SOM)

Award Total: \$250,000 over 2 years

## 2020 Seed Grants (Award Start – 9/1/20)

*Integration of human contact and mobility data with infection history for models of infectious disease transmission.*

**Benjamin Lopman, PhD (Professor, RSPH)**

Ymir Vigfusson, PhD (Assistant Professor, ECAS)

Jan Vinjé, PhD, (PI, CDC)

Kristin Nelson, PhD (Assistant Professor, RSPH)

Award Total: \$250,000 over 2 years

## 2020 Seed Grants continued(Award Start – 9/1/20)

*Characterizing the extent and epidemiological impact of hybrid schistosomes in Tanzania.*

**David Civitello, PhD (Assistant Professor, ECAS)**

Matthew Freeman, PhD; (Associate Professor, RSPH)

Award Total: \$199,720 over 2 years

*The role of macrophages in HIV transmission, persistence, and viral rebound post antiretroviral therapy interruption.*

**Matthew Parsons, PhD (Assistant Professor, SOM)**

Mirko Paiardini, PhD (Associate Professor, SOM)

Janet McNicholl, MD (PI, CDC)

Award Total: \$250,000 over 2 years

*Fecal Microbiota Transplantation for Multi-Drug Resistant Organism Eradication in Patients & Their Environment.*

**Michael Woodworth, MD (Professor, SOM)**

Colleen Kraft, MD (Associate Professor, SOM)

Max Lau, PhD (Assistant Professor, RSPH)

Award Total: \$200,000 over 2 years

*Characterizing molecular regulation of Acinetobacter baumannii phenotypes to understand its spread dynamics in a host community.*

**Minsu Kim, PhD (Associate Professor, ECAS)**

Phil Rather, PhD (Professor, SOM)

Daniel Weissman, PhD (Assistant Professor, ECAS)

Nic Vega, PhD (Assistant Professor, ECAS)

Award Total: \$300,000 over 2 years



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## 2021 Seed Grants continued (Award Start – 9/1/21)

*Dissecting the evolutionary dynamics of influenza A virus within and between naturally infected swine.*

**Katia Koelle, PhD (Associate Professor, ECAS)**  
 Anice Lowen, PhD (Associate Professor, SOM)  
 Max Lau, PhD (Assistant Professor, RSPH)

Award Total: \$250,000 over 2 years

*Cystic fibrosis trait carrier advantage: protecting against ancient and modern epidemics.*

**Rabindra Tirouvanziam, PhD (Associate Professor, SOM)**  
 John Lindo, PhD (Assistant Professor, ECAS)  
 Lance Waller, PhD (Professor, RSPH)  
 Christopher LaRock, PhD (Assistant Professor, SOM)  
 Edward Mocarski, MD, (Professor, SOM)  
 Nael McCarty, PhD, (Professor, SOM)

\$300,000 over 3 years

## 2022 Seed Grants (Award Start – 9/1/22)

*Spillover, spillback, and evolutionary dynamics of SARS-CoV2 in white-tailed deer populations*

**Dave Civitello, PhD (Assistant Professor, ECAS)**  
 Max Lau, PhD (Assistant Professor, RSPH)

Award Total: \$200,000 over 2 years

## 2023 Seed Grants (Award Start – 1/1/23)

*Ecology and genomics of Heartland virus (HRTV), an emerging tick-borne virus*

**Anne Piantadosi, MD/PhD (Assistant Professor, SOM)**  
 Gonzalo Vazquez-Prokopec, PhD (Professor, ECAS)

\$200,000 over 1.5 years

*Impact of existing chronic infection on the pathogenesis and immune responses to acute infection*

**Mohamed Abdel Hakeem, PhD (Assistant Professor, SOM)**  
 David Gordon, PhD (Assistant Professor, SOM)  
 Heather Carleton, PhD (PI, CDC)

Award Total: \$250,000 over 1.5 years

## 2024 Seed Grants (Award Start – 6/1/24)

*Defining the impact of DENV diversity and evolution on virus spread and vaccine efficacy*

**Christopher Neufeldt, PhD (Assistant Professor, SOM)**  
 Matthew Collins, MD/PhD (Associate Professor, SOM)  
 Katia Koelle, PhD (Associate Professor, ECAS)

\$250,000 over 2 years



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## 2024.2 Seed Grants (Award Start – 11/1/24)

*Interpretable machine learning models for epidemic modelling: comparative studies of spatiotemporal dynamics and controls of childhood infections*

**Max Lau, PhD (Ast Professor, RSPH)**

Ben Lopman, PhD (Professor, RSPH)

Wei Jin, PhD (Ast Professor, ECAS)

Jacqueline Tate, PhD (Lead of Viral Gastroenteritis Epidemiology Team, CDC)

Robert Bednarczyk, PhD (Asc Prof, RSPH)

\$250,000 over 19 months

*Wet markets as “amplifiers” of antimicrobial-resistant pathogens in Nairobi, Kenya: building the evidence base for targeted interventions to protect human health*

**Maya Nadimpalli, PhD (Ast Professor, RSPH)**

Matthew Freeman, PhD (Professor, RSPH)

Katharina Koelle, PhD (Professor, ECAS)

\$250,000 over 19 months



# MP3 Initiative: MP3 Awards

MP3 quickly recognized the need for special funding opportunities to address the COVID-19 pandemic. In March 2020, MP3 announced the first of three cycles designed to swiftly award projects related to COVID-19 research. MP3 awarded **\$1,223,806** to COVID-19 research, including a seed grant from the 2020 SG Cycle.

## COVID-19 Cycle 1 Award Start – 5/1/20

*Development of 2019-nCov-specific antibodies from lampreys.*

**Max D. Cooper, MD (Professor, SOM)**  
Masayuki Hirano, PhD (Assistant Professor, SOM)  
Balwan Singh, PhD (PI, CDC)

Award Total: \$123,806 over 1 year

*Landscape of coronavirus recombination across scales.*

**Anice Lowen, PhD (Associate Professor, SOM)**  
Mehul Suthar, PhD (Assistant Professor, SOM)  
Katia Koelle, PhD (Associate Professor, ECAS)

Award Total: \$150,000 over 1 year

*SARS-CoV-2 pathogenesis, immune responses, and treatment: from macaques to humans.*

**Mirko Paiardini, PhD (Associate Professor; ENPRI/SOM)**  
Anne Piantadosi, MD, PhD (Assistant Professor, SOM)  
Raymond Schinazi, PhD (Professor, SOM)

Award Total: \$150,000 over 1 year

## COVID-19 Cycle 2 Award Start – 9/1/20

*Structure, function, and rational inhibitor design of the SARS-CoV-2 RNA polymerase.*

**Bo Liang (Assistant Professor, SOM)**  
Baek Kim (Professor, SOM)  
Dennis Liotta (Professor, ECAS)

Award Total: \$150,000 over 1 year

## COVID-19 Cycle 3 (CURE co-fund) Award Start – 3/1/21

*Estimating the cumulative incidence of SARS-CoV-2 infection in 50 U.S. states to inform COVID-19 vaccine evaluation.*

**Benjamin Lopman, PhD (Professor, RSPH)**  
Kayoko Shioda, DVM/PhD (Staff Scientist, RSPH)  
Mannish Patel, (PI, CDC)  
Matthew Collins, MD/PhD (Associate Professor, SOM)

Award Total: \$50,000 over 1 year

*Assessing breadth of infection- and vaccine-elicited immunity against emergent SARS-CoV-2 variants.*

**Erin Scherer, PhD (Assistant Professor, SOM)**  
Nadine Rouphael, MD (Professor, SOM)

Award Total: \$50,000 over 1 year