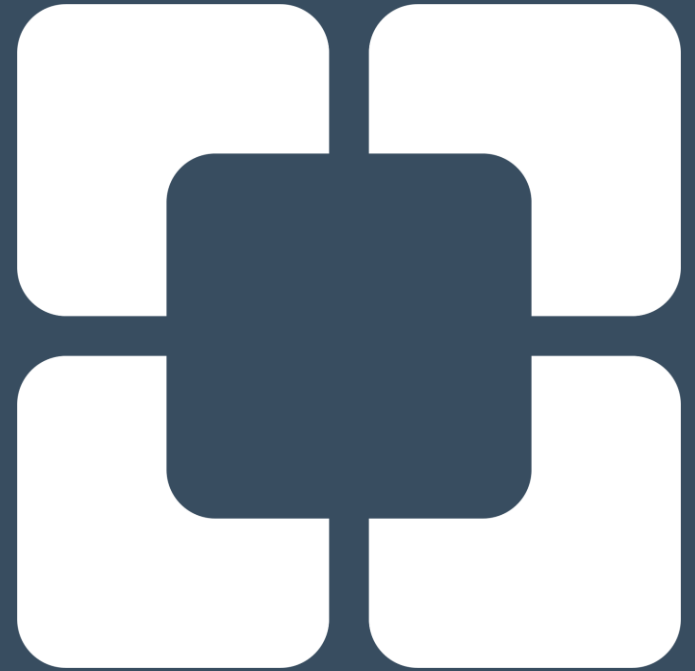


Florida Research and Innovation Center

Joseph Iannotti, MD, PhD

Chief of Research and Academic Officer
Florida Market



Scope

- Current State FRIC
- Future State
- Longer Term Opportunities



Our Research Focus

Translational and basic
research on infectious
diseases, immunobiology,
and cancer



CC FRIC, Port St Lucie

From Bench to Bedside driving Innovations



Biomedical
Innovation
+
Improved
Patient Care

FRIC

**Some FRIC staff
also have a
clinical footprint**

CC
Hospitals

FRIC Integration and Growth

CC Ohio (LRI)



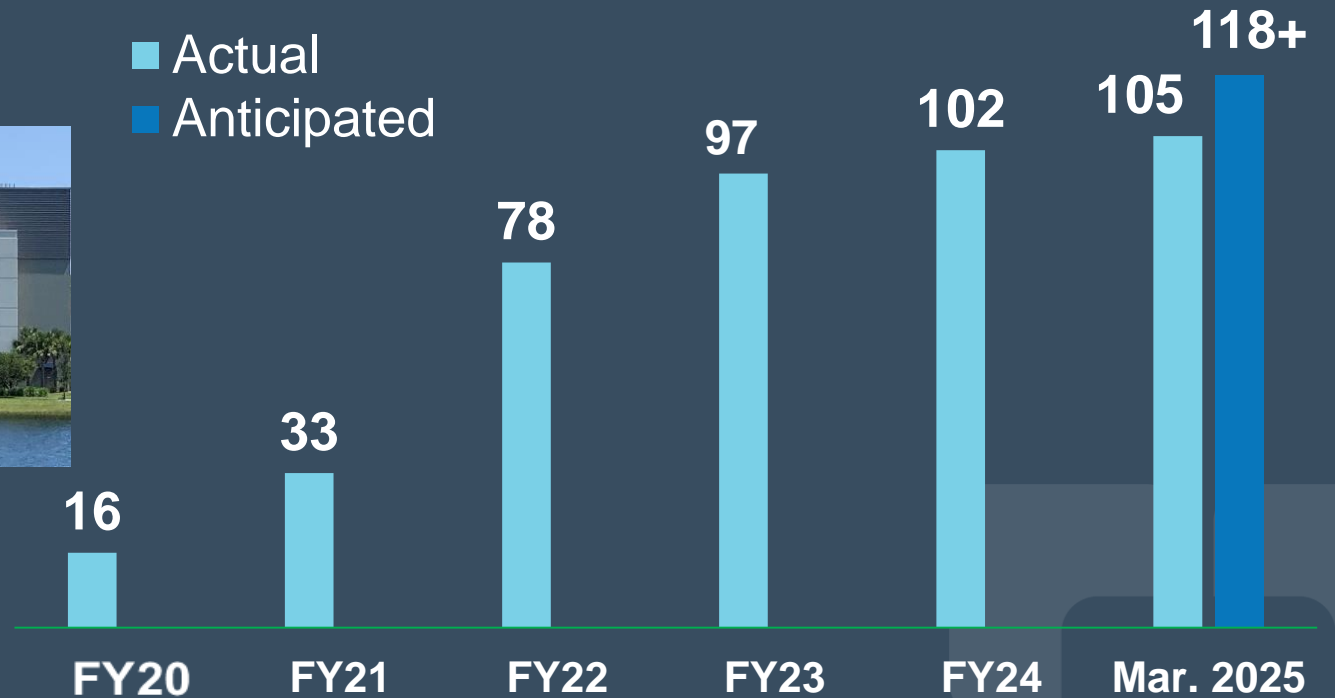
CC Florida



CC FRIC



FTEs by Year



FRIC at a Glance

105 total caregivers in
8 labs and **5** cores:

| Personnel Category | Average Salary | Total FTE |
|--------------------|---------------------|------------|
| Research Scientist | \$ 161,819.00 | 17 |
| Trainees | \$ 63,215.00 | 18 |
| Research Support | \$ 57,753.00 | 27 |
| Admin Support | \$ 80,709.00 | 5 |
| Facilities | \$ 92,279.00 | 12 |
| Pharmacy | \$ 121,057.00 | 12 |
| Other Support | \$ 90,987.00 | 14 |
| | | |
| Grand Total | \$ 92,696.00 | 105 |

FRIC Achievements

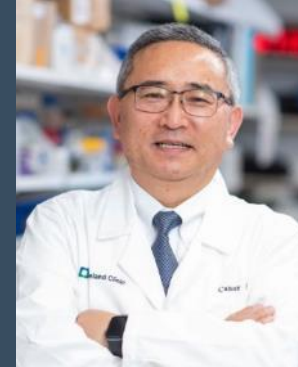
- **Funding to date:**
 - External Grants = \$32.6M
- **SCIENTIFIC PUBLICATIONS to date**
 - > 122 peer-reviewed publications
(e.g. Cell, Nature Microbiology, Science Immunology)
- **FRIC Innovation / IPs:**
 - 11 active IDFs with FRIC as the lead inventors
 - 2 IDFs that have active IP listed.



Research Integration of FRIC



Cleveland Clinic
Main Campus



Jae Jung, PhD
Center Director
Chair, Infectionbiology, LRI



Cleveland Clinic
Abu Dhabi



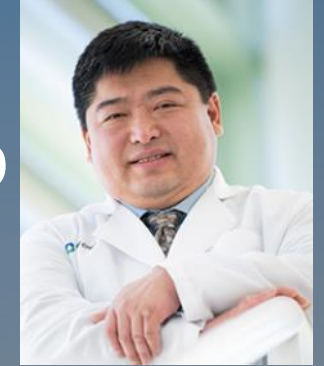
Cleveland Clinic
Florida
Research &
Innovation Center

Fatima bint
Mubarak Global
Center for
Pathogen &
Human Health
Research

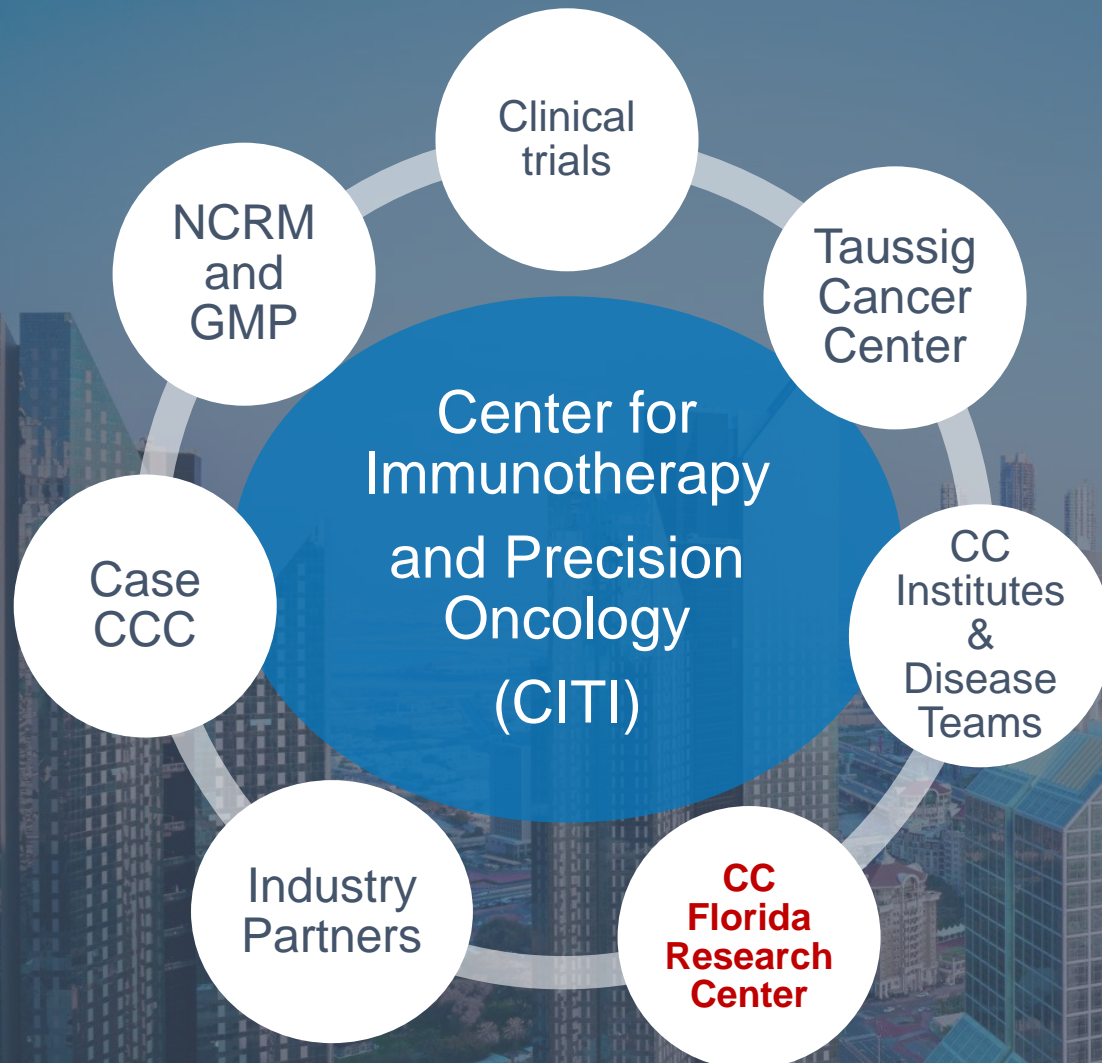


Cleveland Clinic
London

Research Integration of FRIC – Oncology



Tim Chan, MD, PhD
Director

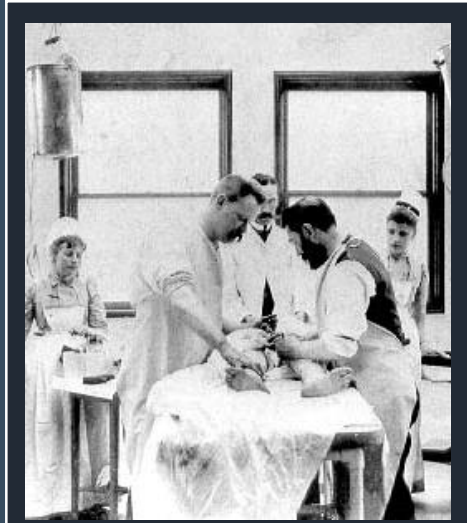


- ☐ Enterprise level immunoprofiling
- ☐ Immunotherapy discovery
- ☐ Translational immunology research
- ☐ Cell therapy and immune checkpoint developmental therapeutics
- ☐ Precision oncology development
- ☐ IND generation
- ☐ IP development
- ☐ Early phase therapeutic development
- ☐ Industry partnerships



FRIC Research Focus

Major Research Focus: Immunobiology



Surgery

1880s



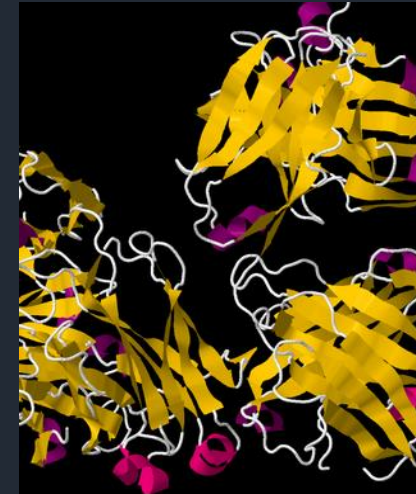
Radiation

1900s



Chemotherapy

1940s



Targeted Drugs

2000s



Immunotherapy

Today

Harnessing the Immune System to Fight **Infectious Diseases and Cancer**

Our Faculty



Michaela Gack, PhD

Director and Chair

- Innate immunity to virus infection
- Viral immune evasion
- Broad-spectrum therapeutics



Jae Jung, PhD

Chair, Cancer Biology, LRI

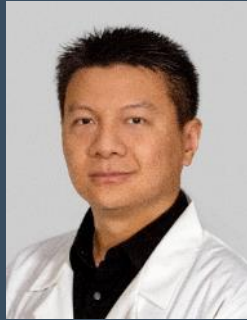
- Tumor viruses
- Emerging RNA viruses



Ted Ross, PhD

Global Director of Vaccine Development

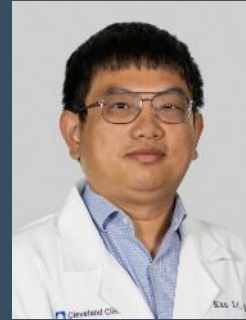
- Universal influenza vaccine design
- Other viral vaccines



Jun Zhao, PhD

Assistant Staff

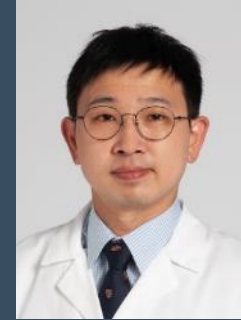
- Tumor virology
- Metabolomics



Kun Li, PhD

Project Scientist; Director, High Biocontainment Core

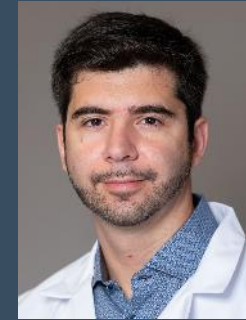
- Coronaviruses



Younho Choi, PhD

Assistant Staff

- Tick-borne viruses
- SARS-CoV-2
- Preclinical infection models



Giuseppe Sautto, PhD, MBA

Assistant Staff

- Immuno-therapeutics



Emily Speranza, PhD

Assistant Staff

- Viral immunology
- Host virus interactions

Tackle Major Challenges in Infectious Disease

Novel approaches to broadly target viral pathogens

- Host based broad-spectrum antiviral development
- Universal viral vaccine design using a novel computational approach ('COBRA')



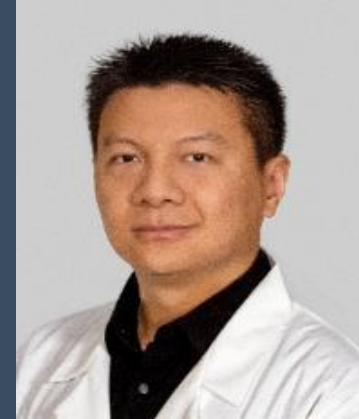
Michaela Gack, PhD
Director and
Chair, FRIC



Ted Ross, PhD
Global Director
of Vaccine
Development at
Cleveland Clinic

Tackle Major Challenges in Oncology

- Molecular target discovery for **virus-induced cancers**
- Investigation of how **cellular metabolism** and **innate immune responses** are dysregulated by tumor viruses
- **Preclinical studies** to assess therapeutic candidates



Jun Zhao, PhD

Assistant Staff (FRIC)

FRIC's Role in the Regional Biomedical Sector

Academic collaborations and educational mission with **FAU**

Other regional academic partners: **FIU, IRSC**

Increasingly active role in **BioFlorida**

FRIC Innovations potential for **spin-offs, start-ups**



Our Near-Term Growth Goals

- Recruitment
 - National level search – 2 positions
 - Transfer or Ohio Programs – 3 programs
- Increase scope or research
 - Clinical areas with high impact
- Start up Bio-Tech space allocation



FRIC Partnership- FIU/CTS in PSL

- Combine scientific and operational resources
- Co-recruitment and shared resources
 - Bring new talent and skills to the community
- Attract Biomedical Research companies and new technology
- Collaboration with PSL- EDC



Longer Term Opportunities

- Bio-Technology and Life Sciences Hub in PSL
 - Academic and healthcare provider regional and local stakeholders
- Private – Public Partnership Potential





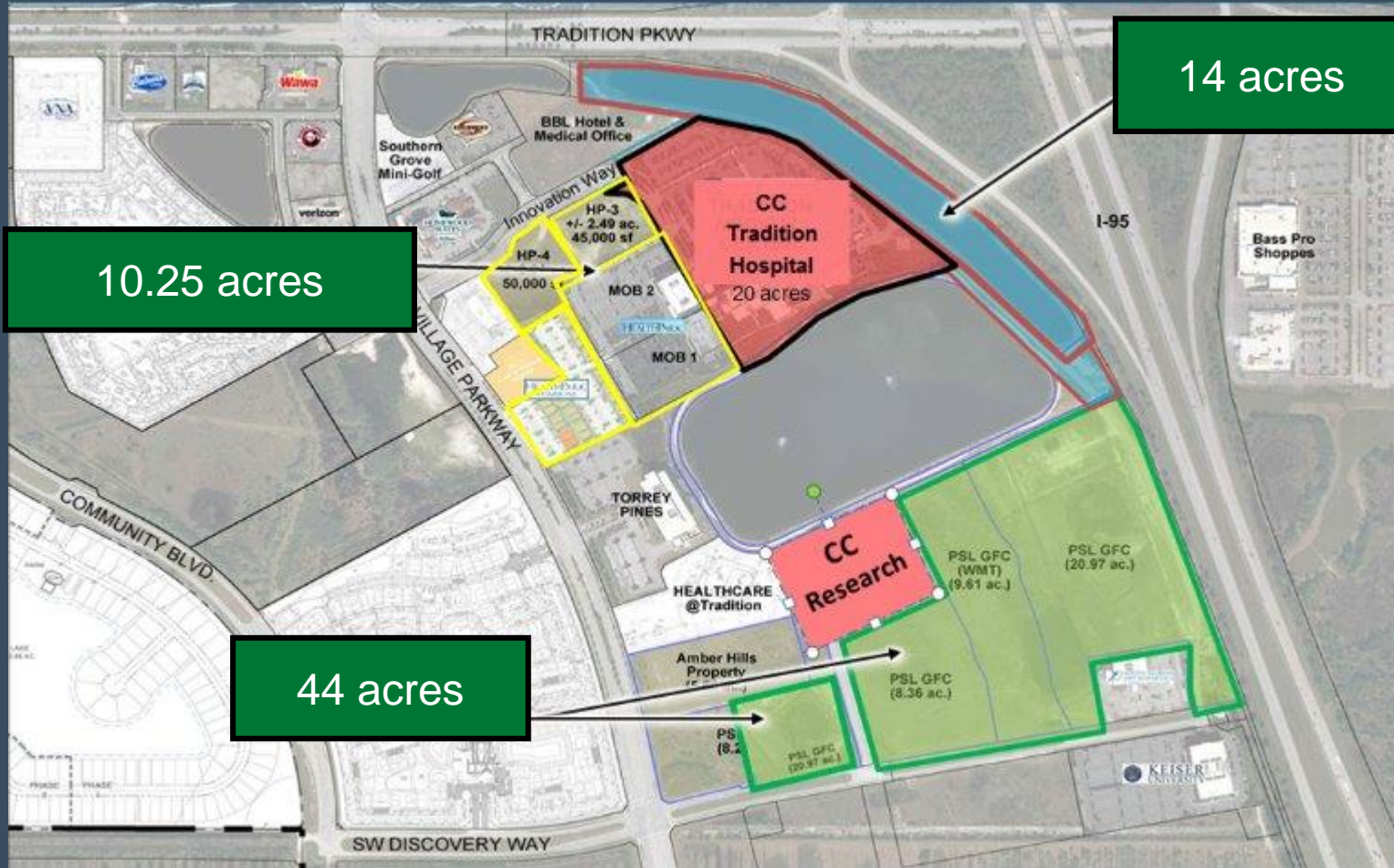
Cleveland Clinic Tradition Hospital



Cleveland Clinic

Chirag Choudhary, MD, MBA
VP/CMO Tradition Hospital

Tradition Hospital Expansion



- 68.25 Acres Available for Expansion on Tradition Campus
- Capital Priorities to Meet Patient Volume & Growing Community Demand:
 - + Emergency Department Fast Track
 - + New Service Lines
 - + Cancer Care
 - + Community Outpatient Services
 - + Inpatient Beds at Tradition Hospital

Neurological Institute



Acute Stroke – Tradition



Before

ED arrival: 11:46

Vascular access:
12:44

Recanalization: 12:59



After



Every life deserves world class care.