



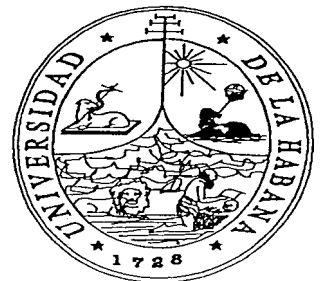
Universidad de Ciencias Médicas de La Habana.

FOR AN EXCELLENCE UNIVERSITY

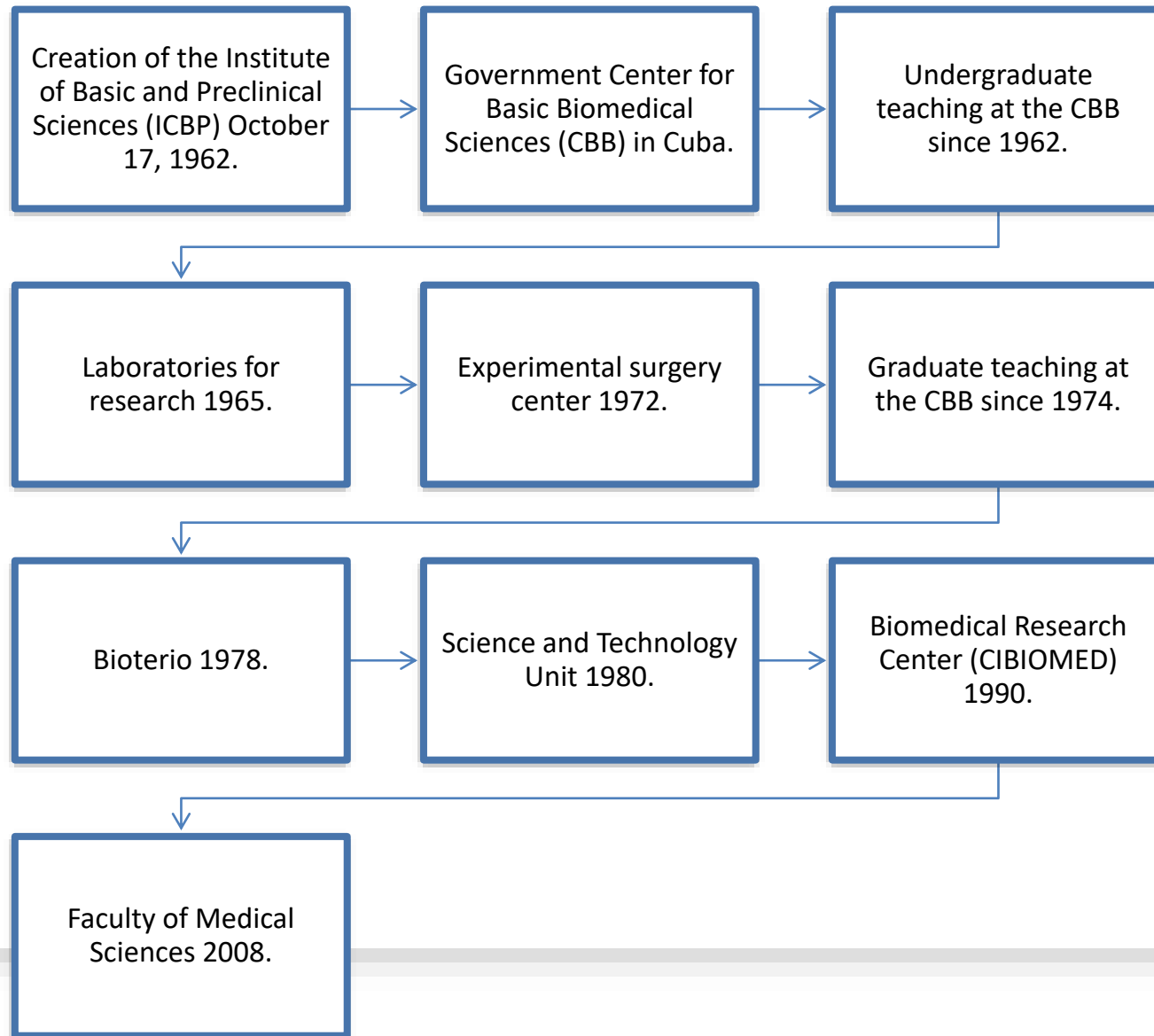
Professor. PhD. MD. Mairim Lago Queija,
Rectora de la UCMH



- ***Governing Center for Undergraduate and graduate teaching of medical sciences in the country.***
- ***Historical continuation of the training of professionals initiated at the University of Havana***
 - ***Medicine: started in 1726***
 - ***Nursing: started in 1898***
 - ***Odontology: started in 1900***



BACKGROUND



Outcomes

- Diagnostic kits Viral hepatitis type B
- Study of chromosomopathies (sickleemia) in the country.
- Pioneer institution in the study of oxidative stress problems.
- Lactose Free Milk (patented in 1994)

Experimental models:

- Intrauterine growth retardation
- Arterial hypertension
- Chronic renal failure

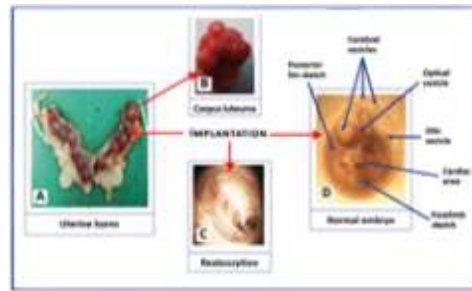


Research laboratories:

- Anatomy 1
- Biochemistry 5
- Embryology 1
- Pharmacology 1
- Physiology 5
- Histology 3
- Immunology 1
- Experimental surgery center
- vivarium



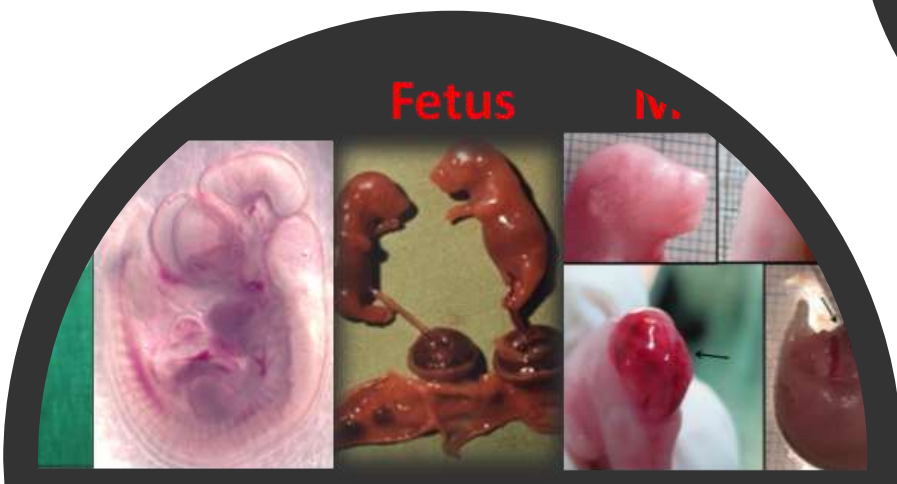
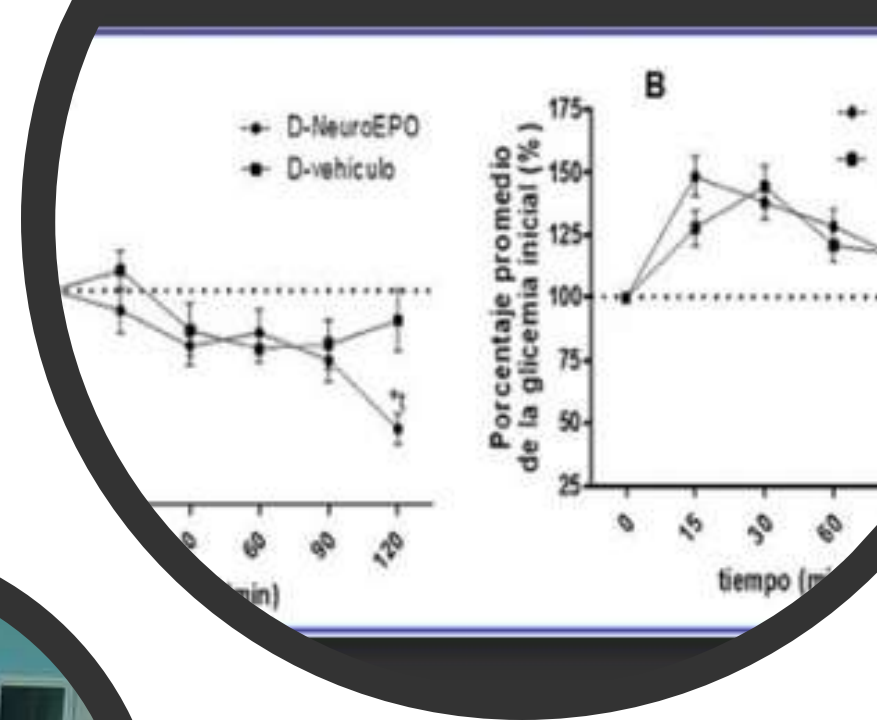
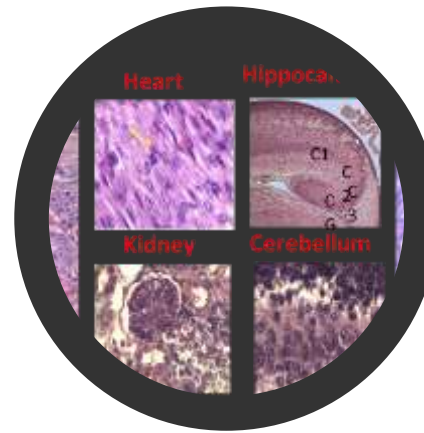
Animal Models



- Intrauterine growth retardation due to placental vascular insufficiency.
- Diabetes mellitus experimental system.
- Obesity experimental system.
- Arterial Hypertension.
- Acute renal failure, and Chronic renal failure.
- Renal Lithiasis.
- Short Bowel Syndrome

Techniques

- Reproductive toxicology.
- Histology, cytochemistry and histochemistry, stereological methods.
- Determination of biochemical parameters in biological samples.



Human Resources related to CBB

Total workers: 79

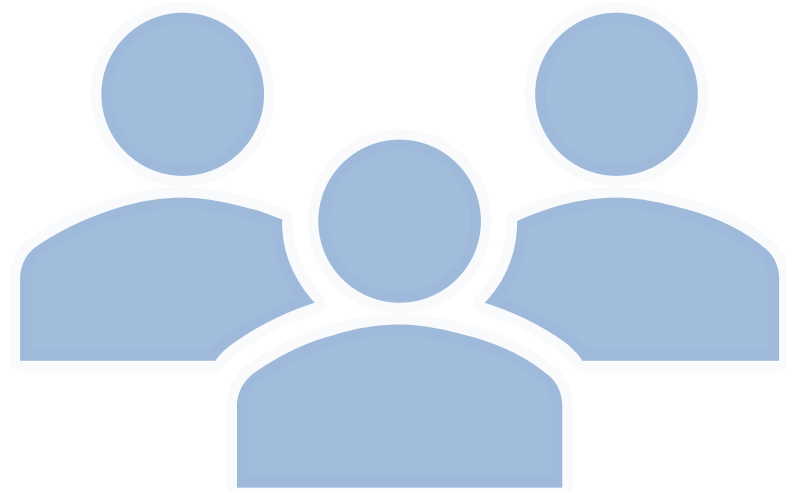
- Doctors in science: 13
- Science teachers: 24
- II Grade specialists: 18
- Researchers: 11
- Professors: 67
 - Full – professor: 12
 - Auxiliaries: 30
 - Attendees: 21
 - Instructors: 4

13 certified by
FeSAHANCCCAL for
working with experimental
animals

Associate researchers

Total adjunct researchers: 55

- Doctors of science: 40
- Science teachers: 18
- II Grade specialists: 13
- Researchers: 36
- Professor: 42
- Full – professor: 24
- Auxiliaries: 15
- Attendees: 3



Lines of investigation

- **Linked to the Chronic Non-Communicable Diseases Program**
- **Linked to the Communicable Diseases Program**
- **Linked to the Maternal and Childcare Program**
- **Linked to the cancer program**
- **Linked to more than one program**



Projects in progress Basics



1. Evaluation of the antitumor and antimetastatic activity of the hydroalcoholic extract of the marine plant *Thalassia testudinum* in a murine model of breast cancer.
2. Influence of NeuroEPO on metabolic control and cytoprotection in diabetic rats.
3. Evaluation of embryonic, fetal and placental growth and development in a model of pregestational visceral obesity.
4. Evaluation of tubular glomerular imbalance with tubular preponderance in a biomodel of intrauterine growth retardation.
5. Effects of folic acid on the immune system and liver in the offspring of rats exposed to ethanol during pregnancy.
6. Genetic polymorphisms in AhR, CYP 1A1 and EPHX1 in oxidative stress and arterial hypertension.

Projects in progress Basics

Basic – Clinical

1. Environmental determinants on the immune response.

Pedagogical

1. Influence factors in academic performance of first-year medical students at the FCM/ICBP “Victoria de Girón”.
2. Characterization of scientific production of residents and supervisors of the FCM/ICBP "Victoria de Girón" 2010-2018.



Main outcome introduced in latest 3 years

- Obtaining experimental models.
- Biomodel of chronic renal failure with the use of tisuacryl in rats.
- Development of experimental systems.

Experimental system for the study of Diabetes Mellitus.

Experimental system for the study of obesity.

- Educational software development.
- Molecular Biology educational software
- Metabolism and Nutrition educational software

Scientific production

Publications in the last 10 years:

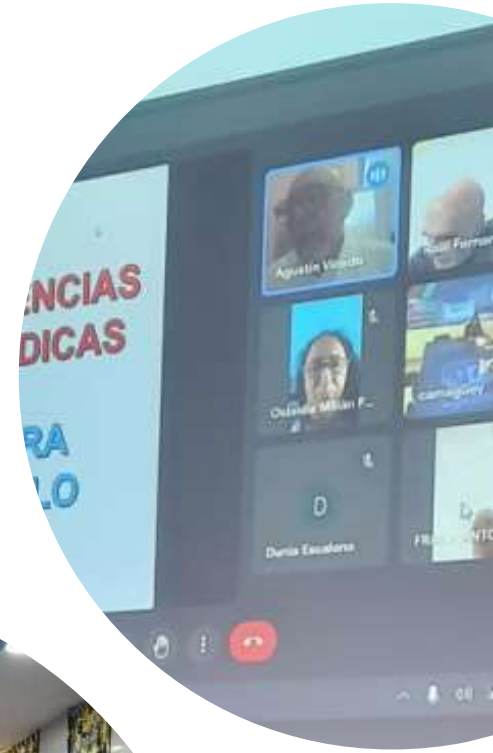
- Journal: 165
- Books: 18
- Event memories: 71
- Conferences participations in last 3 years: 123





Training Programs

- Basic Biomedical Sciences: Its first edition is about to conclude, and it was approved to begin the 2nd edition as the 1st online master's degree in the country (Resolution 107/23 of the Minister of Higher Education).
- Basic Immunology: The 2nd edition began.

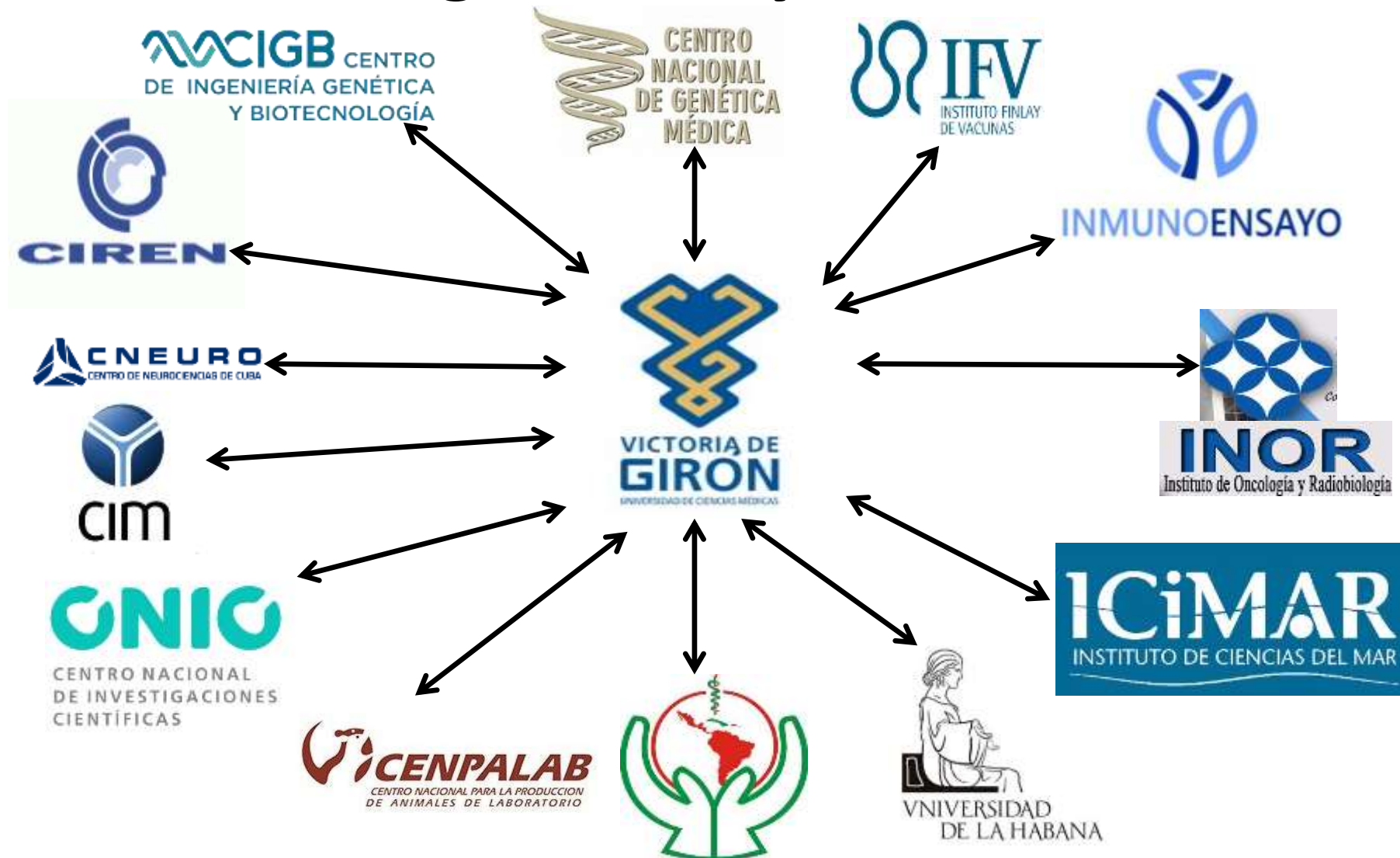


Doctoral training program in Basic Medical Sciences

Research line 1:	Research line 2:	Research line 3:	Research line 4:	Research line 5:
Biology and pathophysiology of organs and systems.	Basic and applied immunology.	Neurosciences.	Genome dynamics and function, as well as its alterations.	Development of pharmaceutical, biotechnological and other health care products.

- **University Authorized Institution for the training of doctors in a certain area of knowledge, in 1977**
- **UCMH ratified as an Authorized Institution for the training of doctors in certain areas of knowledge. Agreement 20.496.21**
- **pharmaceutical, biotechnological and other health care products**

Scientific technological ecosystem



Relations with universities around the world in latest years

Autonomous
University of
Madrid. Spain.

University of
Valencia. Spain.

Charité- Medical
University of Berlin.
Germany.

Paulista State
University of
Botucatu. Brazil.

Buenos Aires'
University.
Argentina

National
Autonomous
University of
Mexico. Mexico.

Valparaiso
University. Chile

Hasselt University.
Belgium.

University of
Antwerp. Belgium.

Transylvania
University of
Braşov. Romania.

Russian People's
Friendship
University. Russia



THANK YOU

GRACIAS
ARIGATO
SHUKURIA

DANKSCHEEN
TASHAKKUR ATU
YAQHANYELAY
SUKSAMA
EXHMET
TINGKI
BIYAN
SHUKRIA

JUSPAXAR
GOZAIMASHITA
EFCHARISTO
KOMAPSUMNIDA
E MAAKE
GRAZIE
MEHRBANI
PALDIES
BOLZIN
MERCI