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COLOMBIAN DOCTORS AND THEIR CONTRIBUTIONS





Казанский федеральный
УНИВЕРСИТЕТ

COLOMBIAN DOCTORS AND THEIR CONTRIBUTIONS

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COLOMBIA



Colombia is a **multicultural** and **biodiverse** country that has an abundance of natural resources, but it is a developing country that unfortunately does not have enough **economic resources** to promote development in the fields of **science and medicine**, but it is a country that has **talented** and **intelligent** people, who are more than **suitable** to contribute to **research and innovations**.

SYNTHETIC VACCINES

- Pararroyo founded the Institute of Immunology of the San Juan de Dios Hospital, from where he carried out research on Lupus, leukemia, tuberculosis and leprosy.
- Research on malaria began in 1983 and had its first great result in 1984. Which began to be tested in 1986, in a colony of Amazon monkeys and later in human groups.
- Synthetic vaccines are made from polypeptides that copy the primary sequence of amino acids of the antigenic determinants of the microorganism
- The immune response provided by SPF is between 40 and 60% in adults, and up to 77% in children over one year of age.

MANUEL ELKIN PATARROYO



BIRTHDATE: November 3, 1946

PLACE OF BIRTH: Ataco, Tolima, Colombia

PROFESSION: Physician-scientist

EDUCATION: National University of Colombia

HUMAN PAPILLOMA VIRUS (HPV)

NUBIA MUÑOZ



BIRTHDATE: 1940

PLACE OF BIRTH: Santiago de Cali, Colombia

PROFESSION: Cancer researcher and epidemiologist

EDUCATION: Universidad del Valle

- The discoveries of Dr. Muñoz opened enormous perspectives for prevention.
- She developed the HPV test and the first HPV vaccine, marketed in 2006.
- There are more than 100 types of this virus.
- More than half a million women are diagnosed each year:
 - 85% occur in low-income countries
 - 70% of cases are preventable with vaccination
 - 3.5% of women in the world have been vaccinated
- According to the British NGO Cancer Research, 8 out of 10 people will contract it throughout their lives.

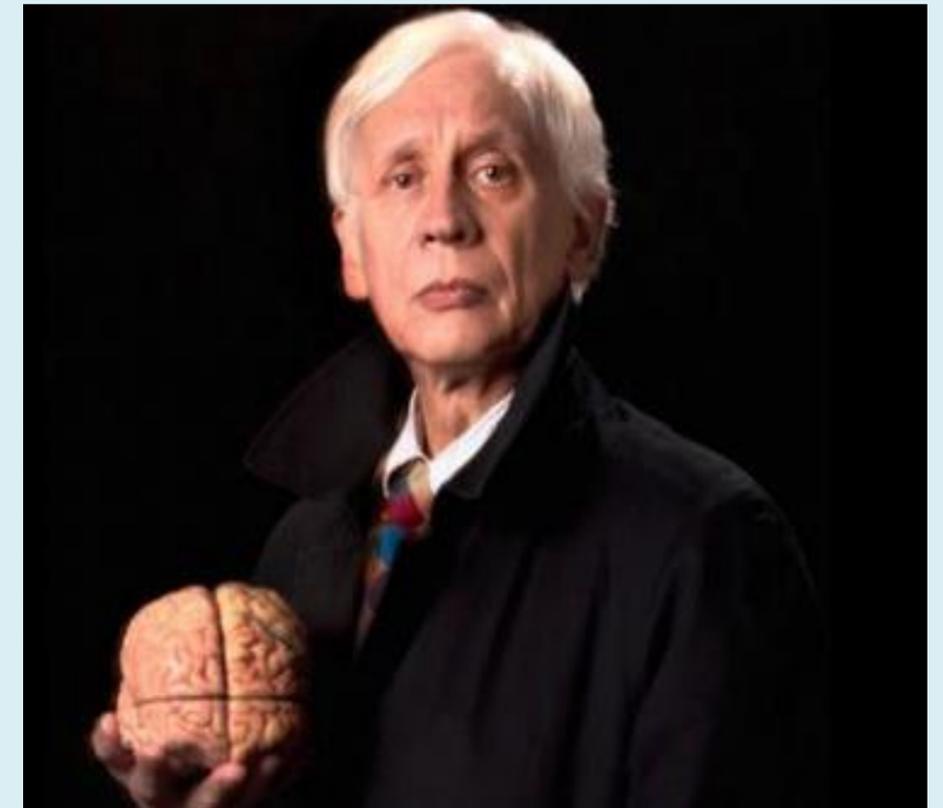
LLINÁS LAW

- Rodolfo Llinás is recognized worldwide for his contributions to the field of Neuroscience.
- In the late 1980s, he found that a neuron from one part of the brain cannot be replaced by another coming from another part of the brain, even if the way in which they are connected is identical.
- Rather, **each neuron is irreplaceable.**

KNOWN FOR:

Physiology of the cerebellum, the thalamus, Thalamocortical dysrhythmia as well as for his pioneering work on the inferior olivary nucleus, on the squid giant synapse and on human magnetoencephalography (MEG).

RODOLFO LLINÁS RIASCOS



BIRTHDATE: 16 of December, 1934

PLACE OF BIRTH: Bogota, Colombia

PROFESSION: Physician and neurophysiologist

EDUCATION: Pontificia Universidad Javeriana

<https://www.elheraldo.co/tendencias/la-vida-aun-con-sus-limites-es-una-experiencia-preciosa-278215>

JORGE REYNOLDS



BIRTHDATE: June 22, 1936

PLACE OF BIRTH: Bogota, Colombia

PROFESSION: Electrical engineer and bio-engineer

EDUCATION: Trinity College

<https://thecitypaperbogota.com/features/colombias-pioneer-of-the-electric-heart/>

EXTERNAL PACEMAKER

- From the 1950s to the 1960s there were great advances regarding the way in which the external pacemaker could work in different countries.
- At the Abood Shaio Foundation Clinic, electrical engineer Jorge Reynolds and Doctor Alberto Vejarano built the first external artificial pacemaker connected to a car battery.
- The first patient was an elderly Ecuatorian priest who suffered from atrioventricular block.
- The pacemaker designed at the Shaio Foundation facilities left the wheelbarrow and the car battery when the transistor appeared, revolutionizing the design and operation of pacemakers.

ИСПОЛЬЗОВАННАЯ ЛИТЕРАТУРА

<https://www.elheraldo.co/tendencias/la-vida-aun-con-sus-limites-es-una-experiencia-preciosa-278215>

<https://gadeaciencia.org/team-members/munoz-calero-nubia-2/>

<https://www.senalcolombia.tv/documental/quien-es-el-dr-llinas-y-cuales-son-sus-descubrimientos#:~:text=¿En%20qué%20consiste%20la%20Ley,dicho%2C%20cada%20neurona%20es%20irremplazable.>

[https://www.who.int/initiatives/malaria-vaccine-implementation-](https://www.who.int/initiatives/malaria-vaccine-implementation-programme)

[programme](https://www.who.int/initiatives/malaria-vaccine-implementation-programme)



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THANKS FOR YOUR ATTENTION!