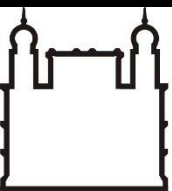


Science for Diplomacy, Diplomacy for Science

Dr Maria Augusta Arruda
Researcher in Public Health

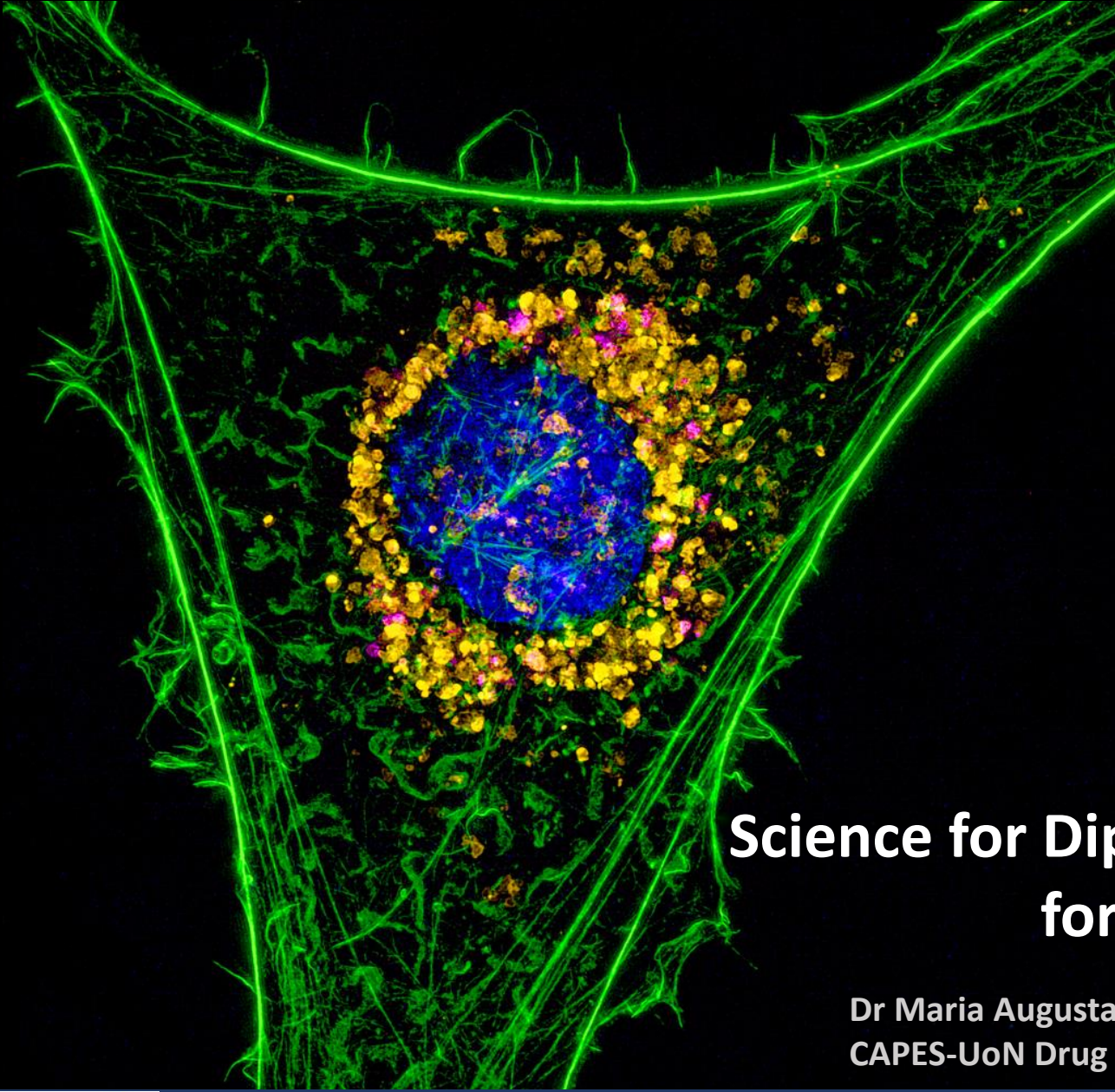


Ministério da Saúde

FIOCRUZ

Fundação Oswaldo Cruz





Science for Diplomacy, Diplomacy for Science

Dr Maria Augusta Arruda
CAPES-UoN Drug Discovery Programme Manager



Every Scientist is a Diplomat

Dr Maria Augusta Arruda
CAPES-UoN Drug Discovery Programme Manager

How did I end up here?

- **Biotechnology technical degree; BSc and PhD in Pharmacology (Brazil)**
- **Independent Research: Redox Signalling Lab (UERJ)**



How did I end up here?

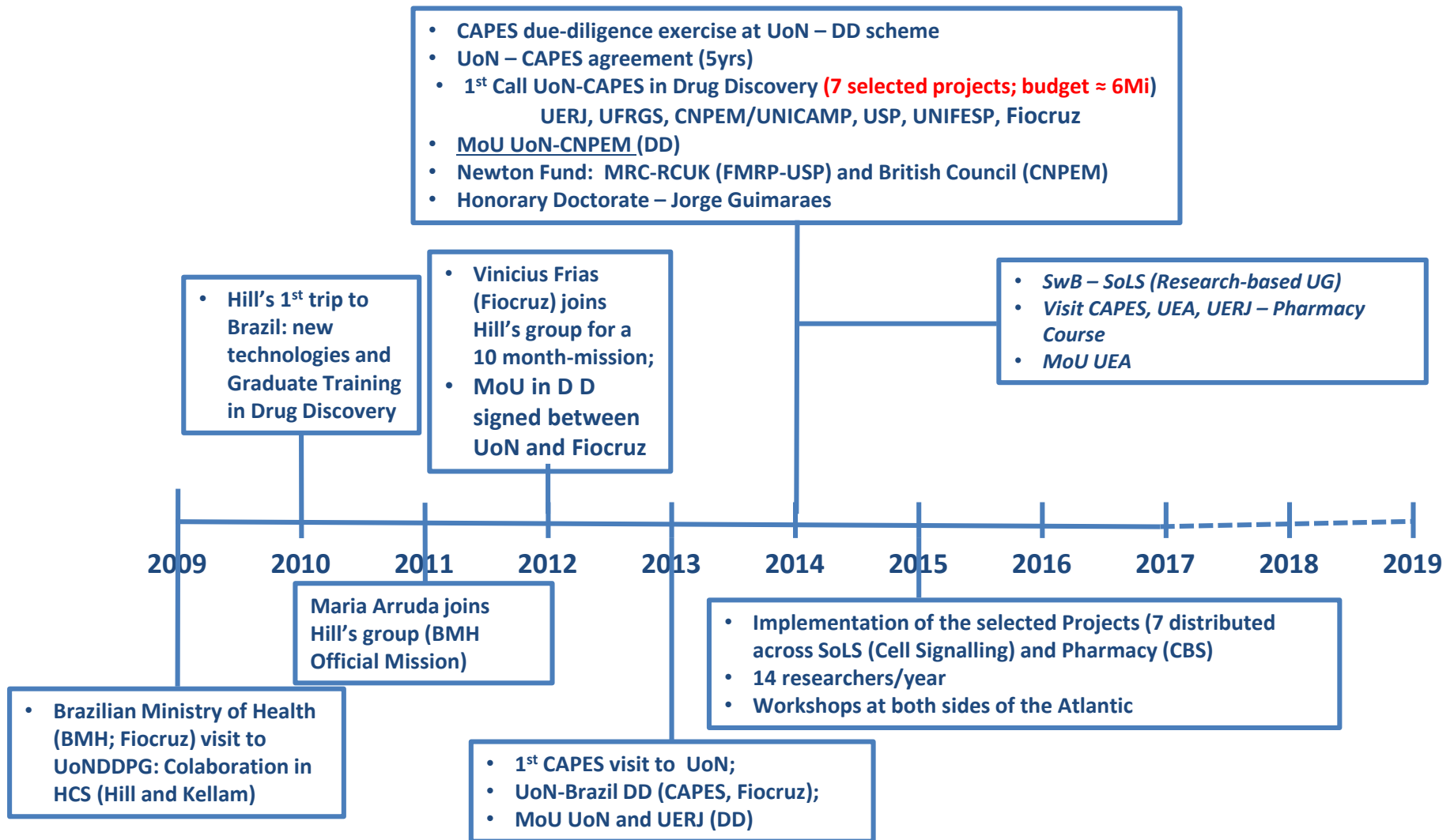
- **Biotechnology technical degree; BSc and PhD in Pharmacology (Brazil)**
- **Independent Research: Redox Signalling Lab (UERJ)**
- **Joined the Institute for Drug Technology (Farmanguinhos), part of FIOCRUZ – Brazilian Ministry of Health**
 - **Roles:**
 - **Academic Director**
 - **Development of New Technologies for Drug Discovery***

Training the next generation in state-of-the-art Drug Discovery related experimental approaches

Brazil – University of Nottingham Partnership in Drug Discovery

*Leveraging Drug Discovery in Brazil to bring to an
end the regional historical deficit in this area*

Brazil – Nottingham Partnership in Drug Discovery: A Brief Story



Training the next generation in state-of-the-art Drug Discovery-related experimental approaches

CAPES-UoN Drug Discovery Programme (in a nutshell)

- **4 years (2 +2)**
- **(Generous) Funding for Research in Brazil**
- **Scholarships/Fellowships – Capacity building and generation of data (pre-competitive)**

CAPES-University of Nottingham Programme in Drug Discovery

(in numbers)

over
20

UoN Scientific
Visits to Brazil

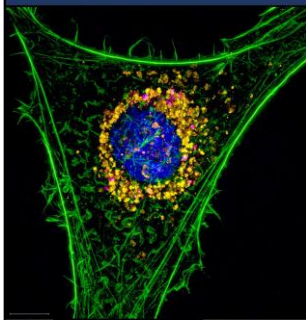
over
30

Work Missions at UoN
(Brazilian PIs)

1

Scientific Meeting

CAPES – University of Nottingham
Programme in Drug Discovery: 2 Years



Nottingham, May 2017

22

Brazilian Fellows trained
(2015 – 2017)

6.3

Million Pounds

CAPES Funding
(2015-2019)

15

2017/2018 Fellows

14

predicted

2017/2018 Fellows

2

Joint Management
Meetings
(Brazil and UK)

2

Successful
Newton Fund Bids
(British Council and MRC)

3

Former Fellows in Leadership Roles



The programme has been important for me in many aspects, from scientific/technical training to expanding international collaborations and experiences. New technologies have been explored and incorporated to our activities in Brazil. This exchange of ideas, experiences and technologies has been very productive.

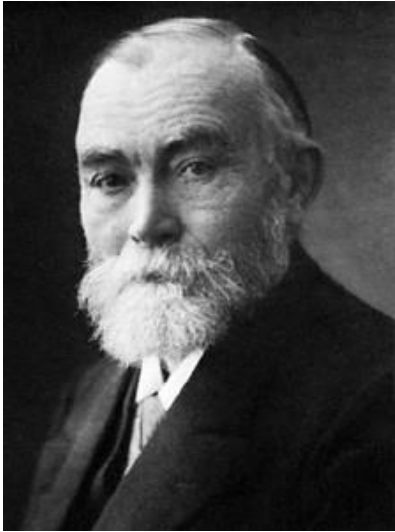
Dr Daniela Trivella, Head of Chemistry and Natural Products Laboratory, LNBio - CNPEM

Damage limitation

- Deep understanding of the different stakeholders needs and expectations
- Communication: universal, clear, sharp, engaging
- Trustworthiness
- Prospection – Science & Funding

Science Diplomacy

Dilemma

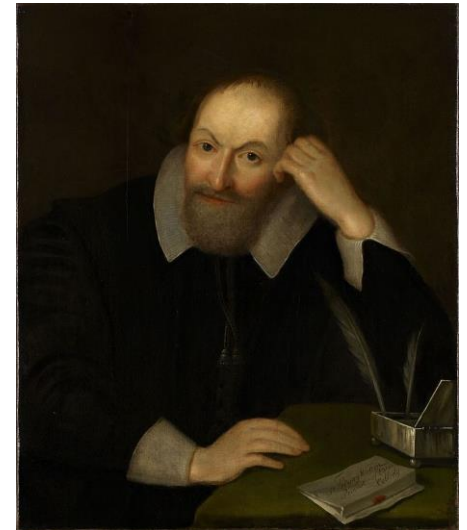


“The aim of scientific work is truth. While we internally recognise something as true, we judge, and while we utter judgements, we assert.”

Prof Gottlob Frege, 1879

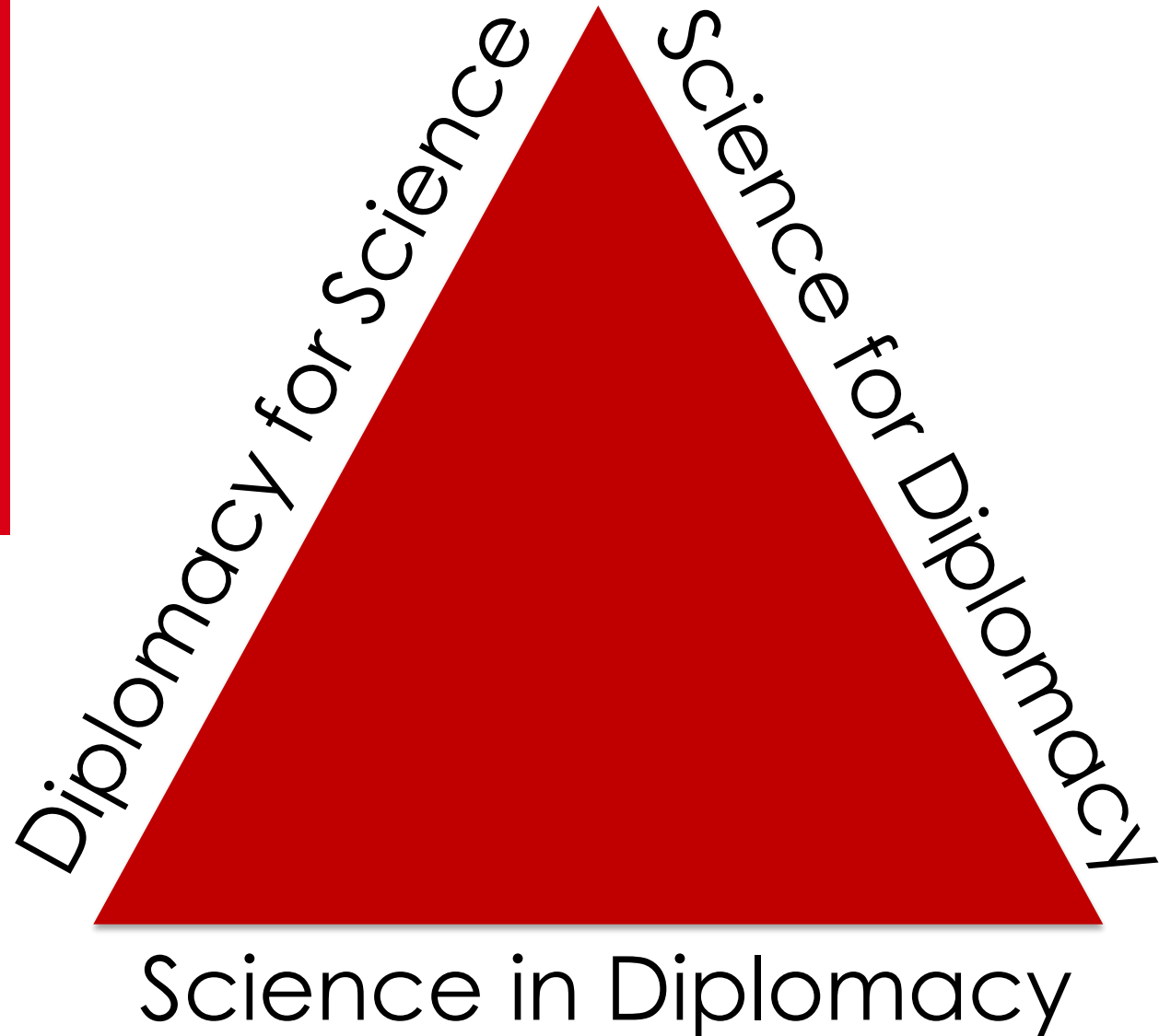
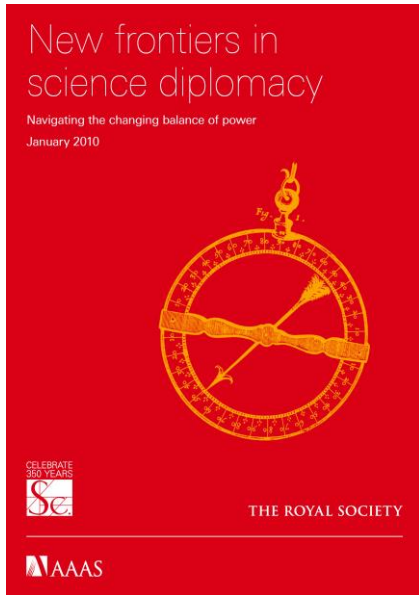
“An ambassador is an honest gentleman sent to lie abroad for the good of his country.”

Sir Henry Wotton, 1604



How?!

Science Diplomacy Holy Trinity





Science Diplomacy

Humanity's greatest challenges – and some of its most promising opportunities – are regional and global. Increasingly, the world requires effective partnerships between scientists, policymakers and diplomats.

Science diplomacy takes many forms: When nations come together to negotiate cooperative agreements on fisheries management or infectious disease monitoring, they need scientific expertise. When scientists come together for complex multi-national projects in astronomy or physics, their nations devise diplomatic agreements on management and financing. And when political relations between two nations are strained or broken, joint research efforts can give them a way to keep talking – and to build trust. Today, the need for science diplomacy is growing. In collaboration with the American Association for the Advancement of Science (AAAS), TWAS is leading a programme that includes lectures, workshops, courses and prizes to build a bridge between the worlds of science and diplomacy.

<https://twas.org/science-diplomacy>

AAAS-TWAS Course on Science Diplomacy 2017

The course will be held from 21 to 25 August 2017 in Trieste, Italy. The application deadline is extended to 9 May 2017. Successful candidates will be contacted by end May.

Deadline

9 May 2017

Partner Organizations

American Association for the
Advancement of Science

Location of the event

Italy

Eligible Applicants

All developing
countries

Field

Interdisciplinary

The American Association for the Advancement of Science (AAAS), Washington DC, USA, and The World Academy of Sciences (TWAS), Trieste, Italy are seeking candidates to participate in the third AAAS-TWAS Course on Science and Diplomacy to be held in Trieste, Italy, from 21 to 25 August 2017.

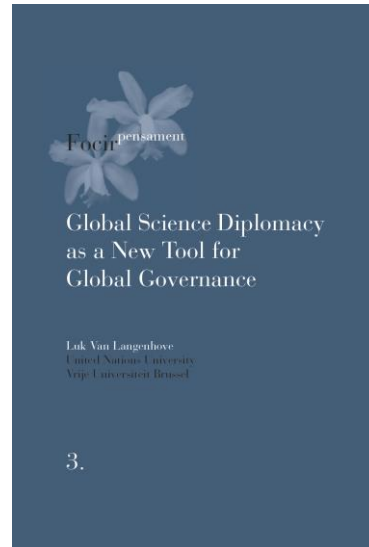
<https://twas.org/opportunity/aaas-twas-course-science-diplomacy-2017>

Mid-life crisis – One week, July 2016, Trieste





(Effective) Communication



<https://www.aaas.org/scidip-online-course>



<https://www.storycollider.org/>

Young Science Diplomats



Empowerment of Societies with Science as effective way for Science Diplomacy

Prof Amal Amin

Professor

Nanostructured polymers-Center of Excellence-
National research Center - Cairo- Egypt



Extending Science beyond Lab

Dr Almas Taj Awan

Lecturer

UFScar

Brazil



Science Diplomacy: Soft power to connect the world through Science

Prof Yusuf Baran

Vice Rector

Abdullah Gul University

Turkey



Science, Policy and Governance: Inventing the Future

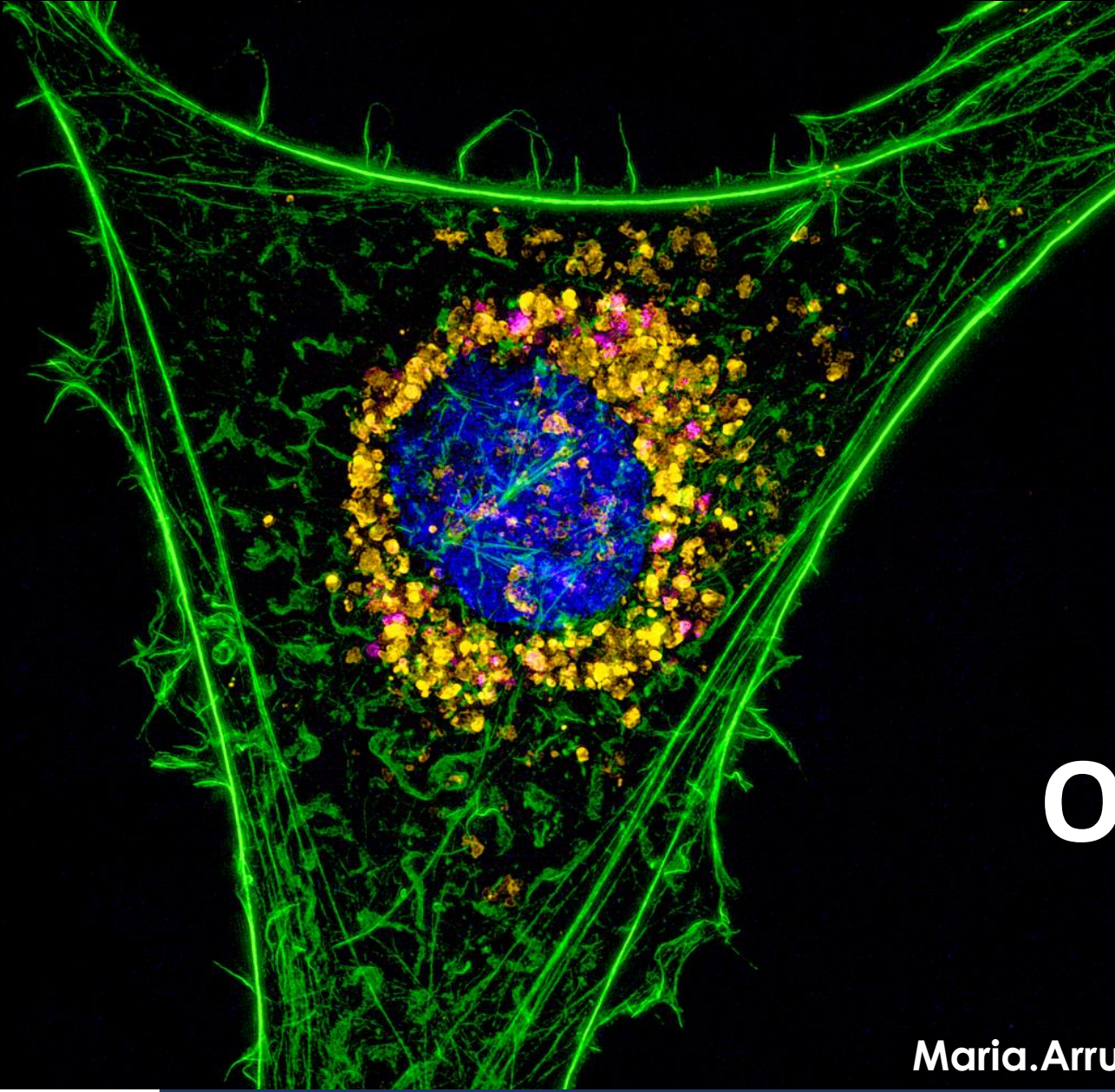
**Professor Luiz Davidovich
Prof of Physics, UFRJ**

President of the Brazilian Academy of Sciences

Take-home message

**START WHERE YOU ARE
USE WHAT YOU HAVE
DO WHAT YOU CAN**

Arthur Ashe



Obrigada

Maria.Arruda@nottingham.ac.uk