

CURRICULUM VITAE

I. PERSONAL INFORMATION

- **First name:** Fouad
- **Last name:** Seghrouchni
- **Nationality:** Moroccan
- **Matrimonial situation:** Married and 3 daughters

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II. EDUCATION

- **2009:** PhD in Immunology : Vaccine design for tuberculosis University of Rabat Mohammed V.
- **2005 :** Master in “Biotechnologies Transfer for Emergent and Developing Countries” University of Rome Tor Vergata
- **1994:** DEA in Immunology and molecular Biology. University of Casablanca Hassane II.
- **1993:** Engineer in hygiene and public health (currently; Principal Chief Engineer).
- **1992:** Degree in Immunology.

III. PERSONAL STATEMENT

Upon completion of my degree diploma in immunology at the University of Mohamed V of Rabat in 1992, I joined the National Institute of Hygiene. My first mission was to build up the technical platform for the first national laboratory dedicated to Auto-immunity. In 1998, I worked, in collaboration with Cochin Institute of Paris, in the analysis of transductional signals of the activation of immune cells in the context of immune dysfunctions. In 2002, I joined Tor Vergata University of Rome to achieve my master degree in “Biotechnologies Transfer for Emergent and Developing Countries”. I also investigate in this university research works of my PhD thesis aiming to develop new sub-unit antigens of Mycobacterium tuberculosis (*M.tb*) for diagnosis and vaccine uses. Since 2005, I was in charge to build up the technical platform and to supervising the first national laboratory dedicated to Cellular Immunology. During these last 15 years, I exploited my technical skills in the diagnosis of immune dysfunctions as health patrician. I also investigated -as PI and/or coordinator- research, capacity building and education actions on immunology and immunotechnology. Convinced that frameworks of scientist networking are very needed for the improvement of research outcome in developing countries, I co-funded and was the first president of 2 national scientist associations.

IV. POSITIONS AND EMPLOYMENT

- **Since 2005:** Head of cellular immunology Laboratory, of the National Institute of hygiene.
- **2001- 2003:** Quality Supervisor in the department of Immunology-Virology of the National Institute of hygiene.
- **1998 - 2001:** Head of Auto-immunity Unit, Department of Immunology-Virology of the National Institute of hygiene.
- **1993:** Biologist Engineer in Department of Immunology-Virology of the National

Institute of hygiene.

LANGUAGES read and spoken:

Arabic, French, English and Italian.

V. PROFESSIONAL SKILLS :

V.1. Laboratory Supervision (Quality Management): 18 years of experience as head of laboratory on two units (Auto-immunity; 3 years and Cell-Immunology; 15 years)

V.2. Establishment of new laboratories: Two experiments:

- Establishment of the first auto-immunity laboratory in Morocco in 1998
- Establishment of the first Cellular Immunology Laboratory in Morocco in 2005.

V.3. Technology Transfer:

- National transfer of 12 new diagnostic biological analysis techniques.
- Participation in the transfer of exploration techniques by flow cytometry in the Chantal Biya International Research Center in Yaoundé, Cameroon.

V.4. The quality:

- Quality Manager: 2 years experience for the Immunology-Virology department of the National Institute of Hygiene.
- Certification of the Laboratory of Cellular Immunology ISO 9001-2008 since 2017.

V.5. Education:

- Teaching: 14 years of experience: Immunotechnologies, Immuno-informatics, Quality and anti-infectious immunology
- Theoretical and practical courses in several universities and institutions in Morocco, France, Switzerland, Romania, Algeria, Tunisia, Cameroon, and South Africa
- Supervision of trainings: Several dozen of theses (doctoral, Engineers, Masters and License).
- Organizations and coordination of training frameworks; Several experiences including:
 - Organization and Coordination of the Inter-University Diploma in Cellular Analysis CytoMagh2018 of the University of Saint-Etienne relocated to Rabat: 200 hours of theoretical and practical lessons by 31 international teachers for 32 North African participants.
 - Organization and Coordination of the CytoMedic2015 training workshop in flow cytometry applied to clinical biology. 40 hours of theoretical and practical lessons by 10 international teachers for 35 Moroccan participants.

V.6. Project management:

- Two experiences as project manager in the field of LIMS implementation at institutional (European Union, 2013 - 2015) and national (Global Fund, 2017-2019) level.
- Current experience: Coordinator of the Host Immunology axis in the research project Integrated genomic, immunological and epidemiological investigations for the

development of diagnostic tests, screening and innovative treatments adapted for Covid-19 ' (Hassan II Academy of Sciences and Techniques since July 2020)

V.7. Research and development: Immunology of host-pathogen interactions

- Principal investigator in international research projects
 - H3ABioNet, US-NIH 2012 -2017 (PI): A sustainable pan-African bioinformatics network for human heredity and health in Africa.
 - IMMGEN- Hassan II Academy of Sciences and Techniques 2008-2012 (PI- Immunology): Immunological and immunogenetic studies of tuberculosis in the Moroccan population.
 - INSERM – CNRST 2007 - 2008 Agreement (PI): Evaluation of involvement of the IFN- γ produced by NK cell in response to the whole and sub-unit mycobacterial antigens, for vaccine and diagnosis uses.
 - INH - University Tor Vergata Roma: L212 2004-2006 (PI): Evaluation of Quantiferon Tb Gold test in microscopy negative Pulmonary tuberculosis and in extrapulmonary TB in Morocco.

- Patent
 - Co-inventor at 25% on the patent filed in 2005: “Use of synthetic peptides of M. tuberculosis, for immunodiagnosis of TB and new vaccine design”. “Institut National d’Hygiene (Morocco) and the University of Rome "Tor Vergata" (Italy)”

- Scientific publications
 - 18 articles published in international peer-reviewed journals.
 - 46 oral presentations at international conferences and congresses
 - North Africa deputy editor of the Journal of Public Health in Africa

- Organization of scientific events
 - 15 Participations in scientific committees
 - 20 Participations in organizing committees

- Scientist Networking Frameworks
 - Co-Founder and President of the Moroccan Association of Cytometry (since 2018)
 - Co-Founder and first President of the Scientific Association of the National Institute of Hygiene (2014 - 2018)
 - Member of the executive board of the Moroccan Society of Immunology (since 2010)

V.8. Languages read and spoken: Arabic, French, English and Italian.