

CURRICULUM VITAE

GENERAL PERSONAL INFORMATIONS

- **First name:** Fouad
- **Last name:** Seghrouchni
- **Nationality:** Moroccan
- **Matrimonial situation:** Married and 2 daughters
- **Address:** Institut National d'Hygiène
27, Av. Ibn Batouta, B.P. : 769 Rabat Morocco
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PROFESSIONAL PREPARATION

- **2001:** Engineer in hygiene and public health (State degree).
- **2005 :** Master in “Technologies Transfer in Biomedicine for Emergent and Developing Countries”
- **1994:** DEA in Immunology and molecular Biology.
- **1992:** Degree in Immunology.
- **2007:** PhD in Immunology : Vaccine design for tuberculosis (Programmed)

POSITIONS AND EMPLOYMENT

- **Since 2003:** Supervisor of cell immunology Unit, Department of Immunology-Virology of the National Institute of hygiene.
- **2001:** Quality Supervisor in the department of Immunology-Virology of the National Institute of hygiene.
- **1998:** Supervisor 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.

PROFESSIONAL TRAINING

- 2007:** Analysis of intracellular production of cytokines within nuclear blood cells in response to stimulation with antigens from *M. tuberculosis* Immunology Center of Marseille-Luminy; France.
- 2003** Analysis of cell immune response to specific sub-unit antigens in tuberculosis. National Institut of Infectious diseases O. Spalanzanni. Roma Italy.
- 2002:** Conception of vaccine candidate peptides by bioinformatics techniques, Laboratory of molecular pathology, University of Tor Vergata, Rome.
- 2000:** Exploration of transduction signals, Department of cell biology CNRS. UPRES-A 8068 Cochin Institute of Molecular Genetic, Paris, France.

1998: The priming of the granulocyte functions, Department of Pharmacology U. CNRS 1534, Faculty of medicine COCHIN PORT ROYAL, Paris, France.

1996: The auto-antibodies detection. Department of Rhumatology, BICHAT Hospital, Paris.

1995: Cell culture and In-vitro antibody production. Department of Immunology, LAPIRONIE hospital, Montpellier, France.

LANGUAGES read and spoken:

Arabic, French, English and Italian.

PUBLICATIONS

Admou B, Arji N, Seghrouchni F, Missoum H, El Fenniri L, Amghar S, El Aouad R. Low prevalence of anti-centromere antibodies in scleroderma in Morocco (about 272 cases). Ann Biol Clin (Paris). 2007 May-Jun;65(3):291-7

F. Seghrouchni, F. Berretta and M. Amicosante Selection of Microbial T-Cell Epitopes for Immune-Diagnosis, Immune-Therapy and Vaccine Design Current Pharmacogenomics, Volume 3, Number 4, December 2005 Pp.247.

Sanjay K. Garg; Marilina B. Santucci; Fouad Seghrouchni; Cesare Saltini; Prakash S. Bisen; Vittorio Colizzi; Maurizio Fraziano Tuberculosis Therapeutics: Past Achievements, Present Road-Blocks and Future Perspectives Letters in Drug Design & Discovery, Volume 1, Number 4, October 2004, pp. 314-328(15).

Fouad Seghrouchni, Silvia Contini, Roumiana Markova, Roumiana Drenska, Khalid Sadki, Larbi Baassi, Yana Todorova, Velislava Terzieva, Marialuisa Bocchino, Giulia Capelli, Alfonso Maria Altieri, Mario Giuseppe Alma, Francesca Mariani, Cesare Saltini, Vittorio Colizzi, Rajae El Aouad, Massimo Amicosante. Detection of multiepitopic Mycobacterium tuberculosis peptide antigens for the differential identification of active and exposed tuberculous subjects, Article in progress of submission.

PARTICIPATION IN RESEARCH PROJECTS as Co-PI

Ongoing Research

NIH - COMSTECH (2006-2007). RAB&GH 06-07_41 I.D 06-07_41

Collaborative research on Tuberculosis in Morocco: Evaluation of the performance of antigenic epitopic peptides for the development of a new test allowing the differential diagnosis between the active tuberculosis and the latent tuberculosis infection.

Accord INSERM-CNRST projects 2007 – 2008.

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.

Completed Research

NIH – University Tor Vergata Roma : L212 project 2004-2006

T cell epitopes prediction of Mtb specific helper T lymphocytes for the diagnosis and monitoring of tuberculosis.

NIH – University Tor Vergata Roma : L212 project 2004-2006

Evaluation of Quantiferon Tb Gold test in microscopy negative Pulmonary tuberculosis and in extrapulmonary **TB in Morocco**.

SYNERGISTIC ACTIVITY

Inventor in Filed Patent 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)”. **Inventors: Fouad Seghrouchni**, Massimo Amicosante, Rajae El Aouad, Cesare Saltini, ,Vittorio Colizzi, Khalid Sadki, Larbi Baassi, Francesca Mariani and Giulia Capelli.

- Participation in the multilateral project aiming to the development of a new anti-TB vaccine that combine the use of BCG with the *M. tuberculosis* selected peptides comprising relevant epitopes that are missed, unexpressed or under-expressed in BCG itself respect to *M. tuberculosis*.
- Conception and in progress development of a didactic web site dedicated to the “reverse immunogenetics” approach, especially the use of the qualitative and quantitative implemented HLA peptide-binding motifs algorithms.

COLLABORATORS

- Pr. Rajae El Aouad, Senior Professor in immunology and the Director of the National Institute of Hygiene of Morocco.
- Pr. Vittorio Colizzi, M.D. PhD., Senior Professor in immunology and Pathology, University of Rome Tor Vergata, Italy
- Pr. Cesare Saltini, M.D. PhD., Senior Professor in Pneumology, Institute of Pneumology, University of Rome Tor Vergata, Italy
- Pr. Ghali Iraqi; Senior Professor in Pneumology; University Hospital Moulay Youssef of Rabat; Morocco.
- Pr. Abdelaziz Benjouad, PhD., Senior Professor in immunology, University Mohamed V of Rabat, Marocco.
- Pr. Eric Vivier ; DVM, PhD; Senior Professor in immunology; NK cells and innate immunity ; Immunology Center of Marseille-Luminy; CNRS-INSERM-Université de la Méditerranée Campus de Luminy ; France.
- Pr. Axel Perianin, U. CNRS 1534, Faculté de medecine COCHIN PORT ROYAL, Paris, France.

OTHER AFFILIATIONS

Member of the Ruggero Ceppellini Advanced School of Immunology, Naples, Italy.