



# Mohsen Abolhassani

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## Education

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**1984** Ph.D. (Immunology, Florida State University, Tallahassee, Florida, USA)

**1976** M.Sc. (Virology, Faculty of Science, Tehran University, Tehran, Iran)

**1970** B.Sc. (Biology, Faculty of Science, Tehran University, Tehran, Iran)

## Work Experience

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**Professor (2006-2015):** Pasteur Institute of Iran, Dept. of Immunology.

- Immunotherapy of cancer stem cells
- Hybridoma production against 57kDa protein of leishmania
- Identification, cloning and expression of immunogenic molecules of Leishmania major by antisera from healed, non-healed patients of leishmania.
- Effect of Borrago on leishmania infection.
- Effects of probiotics on infection of candida albicans in BALB/c mice with breast cancer.
- Study of candida albicans infection on breast cancer metastasis and role of matrix metalloproteins in BALB/c mice
- Secreted factors of leishmania major promastigote shift the immune system of resistant C57BL/6 mice toward Th2 *in vitro*
- Generation of monoclonal antibody against 24 kDa antigen of hepatitis B virus for purification and vaccine production.

**Associate Professor (1995-2006):** Pasteur Institute of Iran, Dept. of Immunology.

- Identification of secreted Leishmania antigens and their effects on Immune system.
- Cloning and expression of 60s ribosomal protein gene of almond allergen.

**Assistant Professor (1987-1995):** New York Medical College, Department of Medicine, Valhalla, New York, USA.

- Identified a new antiproliferative protein from two androgen-independent prostatic cancer cell lines that selectively inhibited cell proliferation of an androgen-dependent prostate cancer cell line.
- Studied two cytokines from culture supernatant of human T cell and leukemic promyelocyte capable of suppressing *in vitro* proliferation and activation of normal human lymphocytes.
- Purified maturation inducer lymphokine from human T cell line that induces differentiation and proliferation of human myeloid cells.
- Identified and purified a DNA fraction from leukemia culture supernatant with strong immune suppressive activity.
- Studied DNA gene rearrangement in human leukemic lymphocytes using nucleic acid purification, hybridization, Northern, Southern and Western blotting.

- Established 2 specific hybridoma against outer surface protein A (OspA) of Lyme disease spirochete, *Borrelia burgdorferi*.

**Post-Doctoral Studies:** University of Georgia, Department of Large Animal Medicine, Athens, Georgia, USA 1985-1986.

- Developed and implemented large scale production of bovine leukocyte interferon with various viral inducer.
- Developed effective purification method for bovine leukocyte interferon and improved cytopathic effect inhibition assay for interferon activity.
- Produced several monoclonal antibodies against natural and recombinant interferons to facilitate interferon isolation and purification.

**Ph.D. Studies:** Florida State University, Department of Biological Science, Tallahassee, Florida USA. 1978-1984.

- Studied structure of serologically defined rabbit immunoglobulin heavy chains. Isolated VH allotype-specific peptides by HPLC and compared their amino acid compositions with the N-terminal tryptic peptides of known VH chain.
- Produced rabbit Ig anti-idiotype and latent allotype and their epitopes were compared with nominal allotypes by serologic, electron microscopic, peptide mapping and amino acid analyses.
- Established a monoclonal antibody specific for a2 allotype of rabbit heavy chain variable region to facilitate a2 allotype isolation.
- Transplanted olfactory bulb on neonatal mice and rats and subsequently fixing the brain to study nerve growth.
- Purified and assayed the enzyme glutamine synthetase from green alga "*Caulerpa racemosa*".

### **TEACHING:**

- Laboratory instructor in Immunology, Genetics, Botany and Zoology, Florida State University, Tallahassee, Florida, USA (1978-1984).
- Teaching Immunology for Medical students of University of Georgia, Athens, Georgia, USA. 1990
- Teaching advance Immunology for graduate students, Pasture Institute of Iran (1999-present).
- Teaching hybridoma technology for graduate students, Tehran University, faculty of Science (2008-2009).
- Teaching how to write scientific paper, Azad University, shomal unit) (2008-2009).
- Teaching advance Immunology for graduate students, Azad University, Science and Research Unit (2009-present).

### **SOCIETIES:**

- Member of "American Association of Immunologists" since 1991.
- Member of Board of Directors of "Iranian Society for Immunology & Allergy" (November 1999-April 2004).
- Member of "Society of Editors of the Iranian Medical Sciences Journals" (May 2001-present).
- Member of World Association of Medical Editors, since 1998.

### **CERTIFICATION:**

- Certified as Laboratory director by Department of Health, State of New York for cell mediated immune responses and for cell surface phenotyping using flow cytometry and immunofluorescence techniques.

## **ACTIVITIES:**

- Member of Publication Committee, Pasteur Institute of Iran, (2007 – 2015)
- Memembr of Research Committee, Pasteur Institute of Iran, (2009 – 2011)
- Memembr of Promotion Committee, Pasteur Institute of Iran, (2009 – 2015)
- Member of Educational Committee, Pasteur Institute of Iran, (2011 – 2015)
  
- **Editor of Scientific Journals:**
- **Editor of Infection and Cancer Immunology journal (ICI) (2017-present)**
- Founding and Editor of Iranian Biomedical Journal (IBJ) (1979- 2015)
  
- **Editorial Board Member:**
- Iranian Journal of Allergy, Asthma and Immunology (2003- present)
- **International Journal of Biotechnology & Biochemistry** (2004- present), India
- **Editor of Infection and Cancer Immunology journal (2017-present)**
- Iranian Journal of Microbiology (2009- present)
- **Iranian Biomedical Journal (1979- present)**
- Iranian Journal of Biotechnology (2002-2004)

## **BOOKS:**

1. Abolhassani, M. (1997) Practical guide to monoclonal antibodies. (in Farsi) Pasteur Institute of Iran Press, Tehran, Iran.
2. Abolhassani, M (2013) How to write and publish a scientific paper. 2<sup>nd</sup> Ed.(in Farsi) Pasteur Institute of Iran Press, Tehran, Iran.

## **Publications**

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