



Mohsen Abolhassani

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Education

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

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-idiotypic 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. 2nd Ed.(in Farsi) Pasteur Institute of Iran Press, Tehran, Iran.

Publications

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