



## CURRICULUM VITAE

**Name:** Ali Ahmad Bayat

**Sex:** Male

**Date of Birth:** 23.3.1974

**Nationality:** Iranian

**Marital Status:** Married with two children

**Home Address:** No.38. Barzegarpour Alley, Khosh street, Azadi street.

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**Work Address:** Monoclonal Antibody Research Center.

Avesina Recheach Institute.

P.O.Box: 19835/177 Tehran, Iran.

**I-Position :**Internal manager of monoclonal antibody research center

### **II-Education:**

BS.c of molecular and cellular biology. Azad University. Tehran, Iran (1994-1998)

MS.c student . (2011)

### **Experience:**

1991-1994      Jahad Daneshgahi Medical of Shahid Beheshti

1998-Present      Researcher, Monoclonal Antibody Research Center

Avesina Research Center, Tehran, Iran.

### **Research Projects:**

-Establishment of murine hybridoma producing Monoclonal antibodies against PSA, prolactin, ferritin

- Establishment of murine hybridoma producing Monoclonal antibodies against Sperm Surface antigen.

- Establishment of murine hybridoma producing Monoclonal antibodies against Inhibin

- Establishment of murine hybridoma producing Monoclonal antibodies against different peptides (more than peptides)
- Purification of prostatic acid phosphatase from seminal fluid
- Purification of PSA from seminal fluid
- Purification of ferritin from human liver
- Production of polyclonal antibodies against PSA and ferritin
- production of polyclonal antibodies against different isotypes of human Ig and Immunoglobulin of different animals (Mouse, Sheep and Rabbit)

#### **Technical Abilities:**

- Cell culture
- Hybridoma technique and production of monoclonal antibody
- Enzyme linked Immunosorbent assay
- Cell purification with density gradient media
- Production of polyclonal antibody
- Column chromatography
- Immunofluorescence

#### **List of Publications:**

##### **A-Papers in English:**

- 1-Shojaeian J, Jeddi-Tehrani M, Dokouhaki P, Mahmoudi AR, Ghods R, Bozorgmehr M, Nikoo S, **Bayat AA**, Akhondi MM, Ostadkarampour M, Rezaia S, Zarnani AH. Mutual helper effect in copulsing of dendritic cells with 2 antigens: a novel approach for improvement of dendritic-based vaccine efficacy against tumors and infectious diseases simultaneously. *J Immunother.* 2009 May;32(4):325-32.
- 2- Daneshmanesh AH, Mikaelsson E, Jeddi-Tehrani M, **Bayat AA**, Ghods R, Ostadkarampour M, Akhondi M, Lagercrantz S, Larsson C, Osterborg A, Shokri F, Mellstedt H, Rabbani H. Ror1, a cell surface receptor tyrosine kinase is expressed in chronic lymphocytic leukemia and may serve as a putative target for therapy. *Int J Cancer.* 2008 Sep 1;123(5):1190-5.
- 3- Arefi S., Heidari M., Akhondi M.M., **Bayat A.A.**, Jeddi Tehrani M., S. Tabaei A., M. Jarrahi A.R. Antizona pellucida antibodies in follicular fluid and outcome Of ICSI. *Middle East Fertility Society Journal* 2006
- 4- Arefi S. Jeddi Tehrani M., M. Akhondi M.M., Mousavi A.R., Heidari M., **Bayat A.A.**, Sadeghpour Tabaei A. Anti-Zona Pellucida antibodies in infertile patients in relation to multiple puncture of ovaries and unexplained infertility. *Iranian Journal of Reproductive Medicine* 2005;3(1):30-5

5- Zarnani A.H., Moazzeni S.M., Shokri F., Salehnia M., **Bayat A.A.**, Mahmoodi S.A.R., Dokouhaki P., Jeddi-Tehrani M., Morphological and cytochemical characteristics purified murine splenic dendritic cells. Iranian Journal of Allergy, Asthma and Immunology, Vol 2, Num 3, September 2003, 139-144

6-sedigheh sharifzadeh, Hehmout Modjtahedi, Mahmood Jedi Tehrani, **Ali Bayat**, Abbas Ghaderi  
Production and Characterization of a Monoclonal Antibody against an Antigen on the surface of Non- Small cell carcinoma of the Lung. IRANIAN JOURNAL OF IMMUNOLOGY, v 4, NO.4, December 20

7- Shojaeian S., Allameh A., Zarnani AH., Chamankhah M., Ghods R., **Bayat AA.**, Jeddi-Tehrani M. Production and Characterization of Monoclonal Antibodies against the Extracellular Domain of CA 125. Immunol Invest. 2010 Jan;39(2):114-31.

8- Daneshmanesh AH, -Farsangi H., Khan AS., Jeddi-Tehrani M., Akhondi MM., **Bayat AA.**, Ghods R, Mahmoudi A-R., HadaviR., "sterborg A O,4., Shokri F., Rabbani H ., Mellstedt H. Monoclonal antibodies against ROR1 induce apoptosis of chronic lymphocytic leukemia (CLL) cells. Leukemia. 2012.

9- Kazemi T., Tahmasebi F., **Bayat AA.**, Mohajer N., Khoshnoodi J., Jeddi-Tehrani M., Rabbani H., Shokri F. Characterization of novel murine monoclonal antibodies directed against the extracellular domain of human HER2 tyrosine kinase receptor. Hybridoma. 2011 Aug;30(4):347-53.

#### **B:papers in Persian:**

1- Zarnani A.H Moazzeni S.M. Shokri F. Salehnia M. **Bayat A.A** Jeddi-Tehrani M. Optimization of Dendritic cell purification from mouse spleen: A recommended method for purification of Dendritic cells from reproductive organs. Medical Journal of Reproduction & infertility. Winter 2003, 4(1):17-29.

2- Mahmoudi S.A.R., Ghods R., Zarnani A.H., Heidari M., **Bayat A.A.**, Torkabadi E., Akhondi M.M., Parivar K., Jeddi Tehrani M., Sadeghi M.R. Characterization of a human spermatozoa surface antigens recognized by HS56. monoclonal antibody. Medical Journal of Reproduction & Infertility. Autumn 2004; 5(4): 290-298.

3- Behjati Ardakani R., Sadeghi M.R., Ghods R., **Bayat A.A.**, Jeddi Tehrani M. Extraction and purification of ferritin from liver tissue. Journal of Babol Medical University, winter 2005; 7(1): 14-21.

- 4- Akhondi M.M , TorkAbadi E, **Bayat A.A** , Heidari M , Ghods R , Sadeghi M.R , Dizeji A , Shokri F , Jeddi–Tehrani M. Monoclonal Antibody Production Against Human Spermatozoal Surface Antigens. Journal of Shaheed Sadoughi University of Medical Services & Health Service 2005; 13(4) 36-50
- 5-Arefi S., Akhondi M.A., Sadeghi M.R., Jeddi Tehrani M., Heidari M., Talebian A., **Bayat A.A.**, Sadeghpour Tabaei A. Intrafollicular fluid antigamete antibodies in infertile patient candidates for ICSI. Medical Journal of Reproduction & Infertility. Summer 2006; 7(2): 101-110.
- 6- Torkabadi E, Akhondi MM, Pakzad P, Mahmoodi SAR, **Bayat A**, Sadeghi MR, Jeddi-Tehrani M. Characterization of HS80 monoclonal antibody for detection of its antigen on the surface of human sperm. HAKIM, Vol 9. No. 4 winter 2007.
- 7-Torkabadi E., Akhoondi M.A., Pakzad P., Mahmoodi S.A.R., **Bayat A.**, Torkabadi E., Sadeghi M.R., Jeddi Tehrani M. Characterization of HS80 monoclonal antibody for detection of its antigen on the surface of human sperm. Hakim Research Journal. Winter 2007; 9(4): 65-75.
- 8-A.S. Tabatabaei- panah, Ph.D, A.H. Zarnani, D.M.T, Ph.D. sh. Montaser-Kouhsari, Ph.D, M. chamankhah, Ph.D., R. Ghods, M, Sc., **A.A. Bayat**, B.Sc., G.E. Kazemi- sefat, B.Sc., S.A.R.Mahmoudi, M.Sc., M. ostad karampour, M. SC., S.Shojaeian, M.Sc., M. Jeddi- Tehrani, Ph.D.  
Production and characterization of Anti- Her2 Monclonal Antibodies. Yakhteh Medical journal, vol 10, No 2, summer 2008
- 9- Tabatabaee A. Zarnani A. montaser Kuhsari SH. Chamankhah M. Ghods R. **Bayat A.A.** Kazemi sefat G. Mahmoodi A. Ostad- karampoor M. Shojaean S. production and Chracterization of anti- Her-2 monoclonal antibodies. Yakhteh Medical Journal 2008. vol 10, No 2.
- 10- Shamsipour F., Shamsipour F., Zarnani A.H., Ghods R., Chamankhah M., Forouzesh F., Vafaei S.,**Bayat A.A.**, Akhondi M.A., Oghabian M.A., Jeddi-Tehrani M  
Conjugation of monoclonal antibodies to super paramagnetic iron oxide nanoparticles for detection of her2/neu antigen on breast cancer cell lines2009
- 11- Sadeghi MR., Hodjat M., Naseri N., Jeddi-Tehrani M., Mosafa N., Akhondi MA., Ghods R., **Bayat AA.** Purification of inhibin from human follicular fluid using monoclonal antibody. Feyz-Journal of Kashan University of Medical Sciences. 2007 fall;11(3):24-30.
- 12- Tabatabaee A., Zarnani A., montaser Kuhsari SH., Chamankhah M., Ghods R., **Bayat A.A.**, Kazemi sefat G., Mahmoodi A., Ostad- karampoor M., Shojaean S. production and Chracterization of anti- Her-2 monoclonal antibodies. Yakhteh Medical Journal 2008;10(2):109-20

## **B:Abstract**

- 1- **Bayat A.A.**, Ghods R., Behjati R., Saboor A.A., Zarnani A.H., Jeddi Tehrani M., Production and Characterization of a Monoclonal Antibody against ferritin. Proceedings of the 3<sup>rd</sup> National Biotechnology Congress Islamic Republic of Iran.
- 2- Heidari M., Mahmoudi A.R., Torkabadi E., Ghods R., **Bayat A.A.**, Zarnani A.H., Jeddi Tehrani M., Sadeghi M.R., Akhondi M.M.,

Production of monoclonal antibodies against sperm surface antigens and its characterization. Proceedings of the 3<sup>rd</sup> National Biotechnology Congress Islamic Republic of Iran.

- 3- Ghods R., Balaei Goli L., **Bayat A.A.**, Mahmoudi A.R., Jeddi Tehrani M., Shokri F., Production of Polyclonal antibodies against human and animal immunoglobulins and preparation of enzyme and fluorescence conjugates. Proceedings of the 3<sup>rd</sup> National Biotechnology Congress Islamic Republic of Iran.
- 4- Ghods R., Behjati R., **Bayat A.A.**, Jeddi Tehrani M., Production of polyclonal antibodies against human ferritin and designing and ELISA test for ferritin measurement. proceedings of the 3<sup>rd</sup> National Biotechnology Congress Islamic Republic of Iran.
- 5- Behjati R., Sadeghi M.R., Ghods R., **Bayat A.A.**, Jeddi Tehrani M., Extraction and purification of ferritin from liver tissue. Proceedings of the 3<sup>rd</sup> National Biotechnology Congress Islamic Republic of Iran.
- 6- Arefi S., Jeddi-Tehrani M., Akhondi M.M., Heidari M., **Bayat A.A.**, Evaluation of the presence of zona antibodies in follicular fluid of infertile women. 10<sup>th</sup> Congress of Fertility and Infertility.
- 7- Heidari M., Mahmoudi S.A.R., Torkabadi E., Ghods R., **Bayat A.A.**, Zarnani A.H., Jeddi Tehrani M., Sadeghi M.R., Akhondi M.M. Production of monoclonal antibodies against sperm surface antigens and its characterization. Proceedings of the 3<sup>rd</sup> National Biotechnology Congress Islamic Republic of Iran, 9-11 September 2003, Mashhad, Iran
- 8- Heidari M., **Bayat A.A.**, Jeddi Tehrani M., Sadeghi M.R., Akhondi M.M., Production of monoclonal antibodies against sperm surface antigens. First Iranian Conference for Cell and Developmental Biology, University of Tehran, 13-14 September 2003.
- 9- Moasses S.M., Zarnani A.H., Shokri F., Salehnia M., **Bayat A.A.**, Mahmoudi S.A.R., Heidari M., Dokouhaki P., Jeddi-Tehrani M., Immunoregulatory activity of supernatants mouse decidual tissue on antigen presentation by dendritic cells. MEFS 10<sup>th</sup> annual meeting, December 10-13 2003, Beirut.
- 10- Zarnani A.H., Moazzeni S.M., Shokri F., Salehnia M., **Bayat A.A.**, Mahmoudi S.A.R., Heidari M., Dokouhaki P., Jeddi Tehrani M. Immunoregulatory activity of supernatants from short-term cultures of mouse Decidual tissue on antigen presentation by dendritic cells. Congress on Immunological Aspects of Fertility and Infertility, 14-15 January 2004, Isfahan, Iran.
- 11- Arefi S., Jeddi Tehrani M., Akhondi M.A., Heidari M., **Bayat A.A.**, Anti Zona antibodies in follicular fluid of infertile women. The first congress on Immunological aspects of fertility and infertility. 14-15 Jun 2004-Isfahan.
- 12- Zarnani A.H., Moazzeni S.M., Shokri F., Salehnia M., **Bayat A.A.**, Mahmoudi S.A.R., Vazirian F., Ghods R., Dokouhaki P., Jeddi Tehrani M., TH2 Promoting Activity of Decidual Cell Cultures Supernatants on Dendritic Cells. 7<sup>th</sup> Congress of Immunology & Allergy, Mashhad, 4-7 May 2004.
- 13- Zarnani A.H., Moazzeni S.M., Shokri F., Salehnia M., **Bayat A.A.**, Mahmoudi S.A.R., Vazirian F., Dokouhaki P., Jeddi Tehrani M., Characterization of Decidual Dendritic Cells During Mouse Normal Pregnancy. 7<sup>th</sup> Congress of Immunology & Allergy, Mashhad, 4-7 May 2004.
- 14- Zarnani A.H., Moazzeni S.M., Shokri F., Salehnia M., **Bayat A.A.**, Mahmoudi S.A.R., Vazirian F., Dokouhaki P., Jeddi Tehrani M.,

- Cytochemical characteristics of Murine Splenic Dendritic Cells. 7<sup>th</sup> Congress of Immunology & Allergy, Mashhad, 4-7 May 2004.
- 15- Zarnani A.H., Moazzeni S.M., Shokri F., Salehnia M., **Bayat A.A.**, Mahmoudi S.A.R., Vazirian F., Dokoohaki P., Jeddi Tehrani M., Analysis of Endometrial Myeloid and Lymphoid Dendritic Cells during Mouse Estruse Cycle. 7<sup>th</sup> Congress of Immunology & Allergy, Mashhad, 4-7 May 2004.
  - 16- Zarnani A.H., Moazzeni S.M., Shokri F., Salehnia M., **Bayat A.A.**, Mahmoudi S.A.R., Heidari M., Dokoohaki P., Jeddi Tehrani M., The Effect of Mouse Decidual Culture Supernatant on Antigen Presentation by Dendritic Cells. 7<sup>th</sup> Congress of Immunology & Allergy, Mashhad, 4-7 May 2004.
  - 17- Zarnani A.H., Moazzeni S.M., Shokri F., Salehnia M., **Bayat A.A.**, Mahmoodi S.A.R., Heidari M., Dokoohaki P., Ghods R., Jeddi-Tehrani M. Immunoregulatory activity of supernatants from short-term cultures of mouse decidual tissue on antigen presentation by dendritic cells. 12<sup>th</sup> International congress of Immunology and 4<sup>th</sup> Annual conference of FOCIS. Montreal, Canada. 18-23 July 2004.
  - 18- Naseri N., **Bayat A.A.**, Talebian A., Ghods R., Mosafa N., Jeddi – Tehrani M. M.M.Akhondi., M.R.Sadeghi. purification of native Inhibin from human follicular fluid using monoclonal Antibody. 8<sup>th</sup> Iranian congress of Biochemistry and the First International Congress of Biochemistry and molecular Biology. Sep 11 – 15, 2005 Tehran / Iran.
  - 19- Zarnani A.H., Kalantari A., Shojaeian J., Gharehbaghian A., Ghods R., Mahmoodi A.R., **Bayat A.A.**, Akhondi M.M., Jeddi Tehrani M. Simultaneous pulsing of dendritic cells with tumor antigen and a third-party antigen: A novel approach for enhancing presentation of tumor antigens by dendritic cells. 1<sup>st</sup> Mediterranean Workshop on Clinical Immunology. 26<sup>th</sup> -29<sup>th</sup> October, 2006.
  - 20- Zarnani A., Shojaeian J., Kalantari A., Ghods R., Mahmoudi S., **Bayat A.**, Khakpour J., Heidari M., Akhondi M., Jeddi-Tehrani M. Helper antigens enhance capacity of dendritic cells to present tumor antigens. 13<sup>th</sup> International Congress of Immunology. 21 -25 August, 2007.
  - 21- Tabatabaei- Panah A.S., Zarnani A.H., Montasser-kouhsari Sh., Jeddi-Tehrani M., Chamankhah M., **Bayat A.A.**, Ghods R., Kazemi-Sefat G.E., Mahmoudi A.R. Quantum dot nanoparticles as useful tools for diagnosis of breast cancer. 3<sup>rd</sup> International Congress & Exhibition on Nanobiotechnology, 13<sup>th</sup> -15<sup>th</sup> June, 2007.
  - 22- Tabatabaei-Panah A.S., Zarnani A.H., Jeddi Tehrani M., Chamankhah M., Montasser- kouhsari Sh., **Bayat A.A.**, Ghods R., Kazemi-Sefat G.E. Diagnostic of breast cancer's biomarker (Her-2) by quantum dots nanoparticles 525. International Breast Cancer Congress, 23-25 February 2007, Tehran, Iran.
  - 23- Arefi S. Jeddi Tehrani M., Akhondi M.M., Heidari M., **A.A Bayat.** Evaluation of the presence of anti zona antibodies in follicular of infertile Women. IFFS 18<sup>th</sup> World Congress On Fertility Sterility May 23-28, 2004 Montreal – Canada
  - 24- Sadri H., Akhondi M.M., Sadeghi M.R., **Bayat A.A.** Torkabadi E., Jeddi Tehrani M., Production of monoclonal antibody against surface antigens of human spermatozoa. Third European Congress of Andrology and the 16<sup>th</sup> Congress of the German Society of Andrology. 11 – 14 September, 2004 Munster – Germany.
  - 25- Naseri N., **Bayat A.A.**, Talebian A. Ghods R., Mosaffa N., Pakzad P., Jeddi Tehrani M., Sadeghi M.R. Generation of monoclonal antibody

against human inhibin, 11<sup>th</sup> Congress of Fertility and Infertility, 24-25 February 2005, Tehran, Iran.

- 26- Arefi.S.,Jeddi – Tehrani.M., Akhondi M.A., Mousavi J.R., Heidari M., **Bayat A.A.** Anti – zona pellucida antibodies in infertile patients in relation to multiple IVF attempts and unexplained infertility. The 7<sup>th</sup> World Congress on Controversies in obstetrics gynecology & infertility April 14- 17, 2005 Athenes, Greece.
- 27- Zarnani A.H., Moazzeni S.M., Kalantari A., Shokri F., Salehnia M., **Bayat A.A.**, Mahmoudi S.A.R., Dokouhaki P., Jeddi – Tehrani M. Characterization of Decidual Dendritic Cells During Mouse Pregnancy. 10<sup>th</sup> AASIR Congress and Third European Congress of Reproductive Immunology Sunday 11<sup>th</sup> – Thursday 15<sup>th</sup> September 2005 place: University of Essex, Colchester,England.