

Babak Behnam, MD, Mphil, PhD

Undiagnosed Diseases Program
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Date of Birth: 09/18/1970 **Citizenship:** US Citizen
Marital Status: Married, 1 Son

EDUCATION and ACADEMIC ACTIVITIES/POSITIONS:

July 2016- Present **Clinical Biochemical Genetics Fellow**, NIH Undiagnosed Diseases Program, NHGRI, NIH, Bethesda, Maryland, USA

Jan. 2016- Present **Postdoctoral Fellow**, NIH Undiagnosed Diseases Program, UDP Translational Lab, NHGRI, NIH, Bethesda, Maryland, USA

July 2014 - Dec. 2015 **Associate Professor of Human Genetics**, Department of Medical Genetics Faculty of Medicine, Iran University of Medical Sciences (IUMS), Tehran, Iran

July 2009 - May 2014 **Assistant Professor of Human Genetics**, Department of Medical Genetics Faculty of Medicine, Iran University of Medical Sciences (IUMS), Tehran, Iran

Oct. 2010 - Dec. 2015 **Director, Clinical Molecular Geneticist, Medical Diagnostic Genetics Lab** General and Children University Hospitals (National License Permit # 2472); molecular genetics analysis of about 75 most common diseases among the population; reported ~ 800 molecular genetics tests (cases) and ~ 85 PNDs

Oct. 2010 - Oct. 2012 **Head, Genetics Clinics** at the OB/GYN University Hospitals; Professional genetics counseling for ~ 2600 cases referred to the clinics (including consanguinity pre-marriage, prenatal and perinatal, and the families with an OMIM disorder), TUMS, Tehran, Iran

Oct. 2006 - Dec. 2008 **Adjunct Faculty and Co-investigator**, Burnett School of Biomedical Sciences, College of Medicine, Worked on Ciliary proteins in Hydrocephalus **University of Central Florida**, Orlando, FL, USA

Aug 2005 - Sep 2006 **NIH-based NRSA (National Research Service Award) Post-doctoral Research Fellowship**, Department of Ophthalmology and Visual Sciences, Kellogg Eye Center, worked on Retinal Ciliary protein (RPGR, ...) in Retinitis Pigmentosa **University of Michigan**, Ann Arbor, MI, USA

Jan-July 2005 **Post-doc fellowship**, Department of Cell and Developmental Biology, worked on heat shock proteins and cell migration in breast cancer **University of Michigan** Medical School, Ann Arbor, MI, USA

2001-2005 **PhD in Human Genetics, University College London (UCL)**, London, UK
Dissertation: Investigation of *TSGA10* gene expression, protein localization and

interaction. Advisors: Dr. Jonathan Wolfe (UCL), Prof. Sue Povey (UCL)
Chairs of Viva: Prof. Ian Craig (KCL), Prof. Nabeel Affara (Cambridge)

- 2000-2001 **M.Sc. in Molecular Medicine**, Department of Molecular Medicine, **University of Sheffield**, Sheffield, UK. Advisor: Prof. Adrian R. Eley
- 1997-1998 **General Physician & Research Assistance**, Department of Emergency and Research Affairs, Baghiyatollah University Hospital, School of Medicine, Tehran, Iran Advisor: Prof. SM. Alavian
- 1989-1997 **Medical Doctor (MD)**, Iran University of Medical Sciences, School of Medicine, Tehran, Iran (GPA: 3.3, National License # 63124)

Research Skills

- Proteomics techniques: MALDI-TOF, LC-MS-MS, 1D and 2D-PAGE, whole gel electro-elution, multi-elution, Western blotting, affinity chromatography.
- Tissue culture techniques- Maintaining mammalian cell line, Handling of pathogenic (*M. tuberculosis*) and non-pathogenic cultures.
- Immunological techniques- flow cytometry, ELISPOT, cytotoxic T cell assay, ELISA, western immunoblotting, dot blot, raising antibodies, purification of antibodies, immunohisto- and immunocyto-chemistry.
- Cell biology technique- Con-focal microscopy, construct formation and subcloning.
Molecular biology techniques – DNA & RNA extraction from animal tissue and cells, PCR, RT-PCR, Q-PCR.
Microbiology techniques – microbial cultures, colony forming units (CFU) enumeration etc.
Handling of experimental animals like-Mice and Guinea pigs.

TEACHING EXPERIENCES:

- Human Genetics, for MSc students in Human Genetics
- Cancer Genetics, for MSc students in Human Genetics
- Medical Genetics, for medical students
- Advanced Molecular and cellular sciences, for master students in Biochemistry and biophysics
- Molecular mechanisms of diseases, for PhD students in Molecular Medicine
- Molecular Genetics, for PhD students in Anatomy and Immunology
- Genetics Engineering, for master students in Biotechnology
- Medical genetics, for BSc students of obstetrics and speech therapy

REVIEW AND ADVISORY PANELS:

- Peer Review for the *Tumor Biology*
- Peer Review for the *Genomics*
- Peer Review for the *International Journal of Surgery Case Reports (IJSCR)*
- Peer Review for the *SCIMETR*
- Peer Review for the *European Journal of Inflammation*
- Peer Review for the *Medical Journal of the Islamic Republic of Iran (MJIRI)*

- Peer Review for the *Iranian Journal of Neuroscience*
- Peer Review for the *Iranian Journal of Ophthalmology*
- Peer Review for the *World Journal of Pediatrics*

HONORS and AWARDS

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| 2008 | CNS Tumor Section, Brain Lab Community Neurosurgery Award Congress of Neurological Surgeons; Annual meeting 2008, Florida, USA |
| 2008 | Included in <i>Who's Who in America</i> , 2008 Edition. |
| 2005 | NIH-based Ruth L. Kirschstein National Research Service Award (NRSA) Postdoctoral Research Fellowship; U Michigan, MI, USA |
| 2000 | Japanese Young Scientist Award, University of Nagoya Medical Center, Japan, XXIII International Congress of the International Academy of Pathology & 14th International Congress of Environmental Pathology |
| 2000 | Recipient of full PhD Scholarship of Iranian Ministry of Health and Medical Education (MHME), Gov. of Iran, Tehran [2000-2004] |

Hobbies & Interests

- Bioinformatics Computer Programming (C/C++, Java)
- Swimming
- Studying Social Sciences

PEER-REVIEWED PUBLISHED ARTICLES

1. Khatami SM, Nasserli MH, Navidi AA, **Behnam B**. Therapy in the treatment of penetrating injuries of the colon to examine the different lines of war casualties. *Kowsar Medical Journal* 1377;(3) 3: 203-209.
2. Moosavi Bafrooei S, Salehian Dardashti P, **Behnam B**. Serum Level of Circulating SCC Tumor Marker in Head and Neck Tumor. *RJMS*. 1999; 6 (3) :229-238.
3. Modarressi MH, **Behnam B**, Cheng M, Taylor KE, Wolfe J, Van Der Hoorn FA. Tsga10 Encodes a 65-Kilodalton Protein That Is Processed to the 27-Kilodalton Fibrous Sheath Protein. *Biol Reprod*. 2004 Mar;70(3):608-15.
4. **Behnam B**, Modarressi MH, Conti V, Taylor KE, Puliti A, Wolfe J. Expression of Tsga10 sperm tail protein in embryogenesis and neural development: from cilium to cell division. *Biochem Biophys Res Commun (BBRC)*. 2006 Jun 16;344(4):1102-10.
5. Hägele S, **Behnam B**, Bortner E, Wolfe J, Paasch U, Lukashev D, Sitkovsky M, Wenger RH, Katschinski DM. TSGA10 prevents nuclear localization of the hypoxia-inducible factor (HIF)-1alpha. *FEBS Lett*. 2006 Jun 26;580(15):3731-8.
6. Sun X, Fontaine JM, Bartl I, **Behnam B**, Welsh MJ, Benndorf R. Induction of Hsp22 (HspB8) by estrogen and cadmium in estrogen-receptor-positive breast cancer cells. *Cell Stress & Chaperones* 2007 Winter;12(4):307-19.
7. He S, Parapuram SK, Hurd TW, **Behnam B**, Margolis B, Swaroop A, Khanna H. Retinitis Pigmentosa GTPase Regulator (RPGR) protein isoforms in mammalian retina: insights into the pathomechanism of X-linked RP. *Vision Research* 2007 Sep 26.

8. Rammling M, Madan M, Paul L, **Behnam B**, Pattisapu JV. Evidence for reduced lymphatic CSF absorption in the H-Tx rat hydrocephalus model. *Cerebrospinal Fluid Res.* 2008 Oct 16;5:15.
9. **Behnam B**, Chahlavi A, Pattisapu J, Wolfe J. TSGA10 is Specifically Expressed in Astrocyte and Over-expressed in Brain Tumors. *Avicenna Journal of Medical Biotechnology (AJMB)*. 2009 Dec; 1(3):161-9.
10. Joghataei MT, Bakhtiari M, Pourheydar B, Mehdizadeh M, Faghihi A, Mehraein F, **Behnam B**, Pirhajati V. Co-transplantation of Schwann and Bone Marrow Stromal Cells Promotes Locomotor Recovery in the Rat Contusion Model of Spinal Cord Injury. *Yakhteh Medical Journal*. Spring 2010; 12(1): 7-16
11. Roghanian A, Jones DC, Pattisapu JV, Wolfe J, Young NT, **Behnam B**. Filament-associated TSGA10 protein is expressed in professional antigen presenting cells and interacts with vimentin. *Cell Immunol.* 2010;265(2):120-6.
12. **B Behnam**, H Farrokhi: Male infertility and polycystic kidney disease – case report. 16th Congress of Iranian Society for Reproductive Medicine. *Iranian Journal of Reproductive Medicine*. Winter 2010: 1(8):40.
13. Ahani A, **Behnam B**, Khorshid HR, Akbari MT. *Rb1* gene mutations in Iranian patients with retinoblastoma: report of four novel mutations. *Cancer Genet.* 2011 Jun; 204(6):316-22.
14. Ahani A, Khoramkhorshid HR, **Behnam B** , Akbari MT. Report of a novel mutation in *Rb1* gene from an Iranian retinoblastoma patient and its effect on splicing pattern of mRNA. *J Shahrekord Univ Med Sci* 2012, 14(4): 88-95.
15. Ahani A, Akbari MT, Saliminejad K, **Behnam B**, Akhondi MM, Vosoogh P, Ghassemi F, Naseripour M, Bahoush G, Khorshid HR. Screening for large rearrangements of the *Rb1* gene in Iranian patients with retinoblastoma using multiplex ligation-dependent probe amplification. *Mol Vis.* 2013;19:454-62.
16. Fazilaty H, Gardaneh M, Bahrami T, Salmaninejad A, **Behnam B**. Crosstalk between breast cancer stem cells and metastatic niche: emerging molecular metastasis pathway? *Tumour Biol.* 2013 Aug;34(4):2019-30.
17. Tajaddini S, Ebrahimi S, **Behnam B**, Bakhtiyari M, Joghataei MT, Abbasi M, Amini M, Amanpour S, Koruji M. Antioxidant effect of manganese on the testis structure and sperm parameters of formalin-treated mice. *Andrologia.* 2014 Apr;46(3):246-53.
18. Keypour F, Naghi I, **Behnam B**. Roberts-SC Phocomelia Syndrome (Pseudothalidomide Syndrome): A Case Report. *J Family and Reproductive Health.* 2013 March;7(1):45-47.
19. **Behnam B**, Shakiba M, Ahani A, Razzaghy-Azar M. Recurrent self-limiting hepatitis in two Iranian children: A novel (Q166R) mutation in *EIF2AK3* leading to Wolcott-Rallison syndrome. *Hepatitis Monthly.* 2013 Jun 9;13(6):e10124.
20. Saliminejad K, **Behnam B**, Khorram Khorshid HR, Akbari MT, Ghassemi F, Asadi Amoli F, Akhondi MM, Vosoogh P, Naseripour M, Ahani A. Rapid Detection of *Rb1* Recurrent Mutations in Retinoblastoma by ARMS-PCR. *J Genet.* 2013 May 29;92(2):e36-40.
21. Fazilaty H, **Behnam B**. Molecular Genetics of Bartter Syndrome. *J Ped. Nephrology* 2014 Jan; 1(3):92-100
22. Fazilaty H and **Behnam B**. The perivascular niche governs an autoregulatory network to support breast cancer metastasis. *Cell Biol Int.* 2014 Jun;38(6):691-4.
23. Sayyahfar S, Ansari S, Mohebbali M, **Behnam B**. Visceral Leishmaniasis without Fever in an 11-Month-Old Infant: a Rare Clinical Feature of Kala-azar. *Korean J Parasitol.* 2014 Apr;52(2):189-91.
24. Amini M, Shirinbayan P, **Behnam B**, Roghani M, Farhoudian A, Joghataei MT, Koruji M. Correlation between expression of *CatSper* family and sperm profiles in the adult mouse testis following Iranian Kerack abuse. *Andrology.* 2014 May;2(3):386-93.

25. Azizollahi S, Aflatoonian R, Sedigi-Gilani MA, Asghari Jafarabadi M, **Behnam B**, Azizollahi G, Koruji M. Recruiting testicular torsion introduces an azoospermic mouse model for spermatogonial stem cell transplantation. *Urol J*. 2014 Jul 8;11(3):1648-55.
26. Amini L, Oskouie F, **Behnam B**, Sadeghi MR. PolyCystic Ovary Syndrome in Monozygotic Twins Concordant for Lipid Profiles in Iranian Reproductive Women. *IJWHR*. 2014 Summer;2(4):236-9
27. Koruji M, Shirinbayan P, Amini M, Farhoudian A, **Behnam B**, Joghataei MT, Dadkhah A. Or10-4 correlation between expression of catsper family and sperm profiles in the adult mouse testis following Iranian kerack abuse. *Alcohol Alcohol*. 2014 Sep;49 Suppl 1:i47. doi: 10.1093/alcalc/agu053.48.
28. Soheilipour F, Abed O, **Behnam B**, Abdolhosseini M, Alibeigi P, Pazouki A. A Rare Case of Mixed Gonadal dysgenesis with mosaicism 45,X/46,X,+mar. *Int J Surg Case Rep Int J Surg Case Rep*. 2014 Dec 12;7C:35-38.
29. Hooman N, Otukesh H, Fazilaty H, Torktaz I, Hosseini R, **Behnam B**. Novel predominant pattern of mutation in Kidney Anion Exchanger 1 (*kAEL*) causes autosomal recessive distal renal tubular acidosis in Iran. *Iran J Kidney Dis*. 2015 May;9(3):230-8.
30. Eftekharzadeh M, Nobakht M, Alizadeh A, Soleimani M, Hajghasem M, Kordestani Shargh B, Karkuki Osguei N, **Behnam B**, Samadikuchaksaraei A. The effect of intrathecal delivery of bone marrow stromal cells on hippocampal neurons in rat model of Alzheimer's disease. *Iran J Basic Med Sci*. 2015 May;18(5):520-5.
31. **Behnam B**, Mobahat M, Fazilaty H, Wolfe J, Omran H. *TSGA10* is a Centrosomal Protein, Interacts with *ODF2* and Localizes to Basal Body. *J Cell Sci Ther*. 2015 July;6(4): 217. doi:10.4172/2177-7013.1000217.
32. Fazilaty H, Gardaneh M, Akbari P, Zekri A, **Behnam B**. SLUG and SOX9 Cooperatively Regulate Tumor Initiating Niche Factors in Breast Cancer. *Cancer Microenviron*. 2016 Apr;9(1):71-4. doi: 10.1007/s12307-015-0176-8.
33. Tajaddini Mahani S, **Behnam B**, Abbassi M, Asgari H, Nazmara Z, Shirinbayan P, Joghataei M, Koruji M. Tsga10 expression correlates with sperm profiles in the adult formalin-exposed mice. *Andrologia*. 2016 Jan 21. doi: 10.1111/and.12543.
34. Azizollahi S, Aflatoonian R, Sadighi Gilani MA, **Behnam B**, Tajik N, Asghari-Jafarabadi M, Asgari HR, Koruji M. Alteration of spermatogenesis following spermatogonial stem cells transplantation in testicular torsion-detorsion mice. *J Assist Reprod Genet*. 2016 Jun;33(6):771-81.
35. Soheilipour F, Fazilaty H, Jesmi F, Gahl WA, **Behnam B**. First report of inherited thyroxine-binding globulin deficiency in Iran caused by a known de novo mutation in SERPINA7. *Mol Genet Metab Rep*. 2016 Jun 11;8:13-6.
36. Shabani R, Ashtari K, **Behnam B**, Izadyar F, Asgari H, Asghari Jafarabadi M, Ashjari M, Asadi E, Koruji M. In vitro toxicity assay of cisplatin on mouse acute lymphoblastic leukaemia and spermatogonial stem cells. *Andrologia*. 2016 Jun;48(5):584-94.
37. Mehrpour M, Gohari F, Dizaji MZ, Ahani A, Malicdan MC, **Behnam B**. An ABCD1 Mutation (c.253dupC) Caused Diverse Phenotypes of Adrenoleukodystrophy in an Iranian Consanguineous Pedigree. *J Mol Genet Med*. 2016 Jun;10(2). pii: 222. Epub 2016 Jun 19. PubMed PMID: 27489563.
38. Malakoutian T, Amouzegar A, Vali F, Asgari M, **Behnam B**. First Report of Familial Juvenile Hyperuricemic Nephropathy (FJHN) in Iran Caused By a Novel De Novo Mutation (E197X) in UMOD. *J Mol Genet Med*. 2016 Jun;10(2). pii: 218. Epub 2016 May 29. PubMed PMID: 27489562.
39. Tavasoli A, Sayyahfar S, **Behnam B**. A rare case of Sjogren-Larsson syndrome with recurrent pneumonia and asthma. *Korean J Pediatr*. 2016 Jun;59(6):276-9.

40. Shakiba M, Mahjoub F, Fazilaty H, Rezagholizadeh F, Shakiba A, Ziadlou M, Gahl WA, **Behnam B**. Adenosine kinase deficiency with neurodevelopmental delay and recurrent hepatic dysfunction: A case report. *Adv Rare Dis*. 2016;3. pii: 2. Epub 2016 Jul 21. PubMed PMID: 27500280.
41. Sarveazad A, Babahajian A, Bakhtiari M, Soleimani M, **Behnam B**, Yari A, Akbari A, Yousefifard M, Janzadeh A, Amini N, Agah S, Fallah A, Joghataei MT. The combined application of human adipose derived stem cells and Chondroitinase ABC in treatment of a spinal cord injury model. *Neuropeptides*. 2016 Jul 28. pii:S0143-4179(16)30077-4. doi: 10.1016/j.npep.2016.07.004.
42. Shahraki K, Ahani A, Sharma P, Faranoush M, Bahoush G, Torktaz I, Gahl WA, Naseripour M, **Behnam B**. Genetic screening in Iranian patients with retinoblastoma. *Eye (Lond)*. 2016 Dec 16. doi: 10.1038/eye.2016.289. [Epub ahead of print] PubMed PMID: 27983729.
43. Gardaneh M, Shojaei S, Kaviani A, **Behnam B**. GDNF induces RET-SRC-HER2-dependent growth in trastuzumab-sensitive but SRC-independent growth in resistant breast tumor cells. *Breast Cancer Res Treat*. 2017 Jan 23. doi:10.1007/s10549-016-4078-3. [Epub ahead of print] PubMed PMID: 28116540.
44. Ghazi F, Hosseini R, Ackouchakian M, Teimourian S, Ataei Z, Otukesh H, Gahl WA, **Behnam B**. *CTNS* molecular genetics profile in a Persian nephropathic cystinosis population. (accepted by *NEFROLOGIA*)

BOOK

1. M. Araghi-Niknam, **B. Behnam**, S. Hosseini, R.R. Watson, Dehydroepiandrosterone (DHEA) and AIDS (chapter 13 of the *'Health Promotions and Aging: The Role of Dehydroepiandrosterone (DHEA)*). 1st ed., Harwood Academic Publishers, Amsteldijk, 1999.
2. **B. Behnam**, H. Fazilaty, A. Roghanian, The Importance of Circulating Tumor Cells and Tumor Models in Future of Cancer Therapy (DOI: 10.1007/978-3-319-45397-2_7 In book: *Ex Vivo Engineering of the Tumor Microenvironment*, pp.121-135). 1st ed., Springer International Publishing, Puducherry, 2017.

PRESENTATION AT MEETINGS

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| 2016 | The American Society of Human Genetics (ASHG), 66 th Annual meeting, Vancouver, Canada |
| 2015 | 1 st International Conference on Transcriptomics, July 27-29, 2015 Orlando, FL, USA |
| 2014 | American College of Medical Genetics, 23 rd Annual meeting 2014, Nashville, TN, USA |
| 2013 | American College of Medical Genetics, 22 nd Annual meeting 2013, Phoenix, AZ, USA |
| 2012 | American College of Medical Genetics, 21 st Annual meeting 2012, Charlotte, NC, USA |
| 2011 | International Society of Ocular Oncology (ISOO), Biannual meeting 2011, Buenos Aires, Argentina |
| 2011 | American College of Medical Genetics, 20 th Annual meeting 2011, Vancouver, Canada |
| 2008 | Congress of Neurological Surgeons. Annual meeting 2008, Orlando, Florida, USA |
| 2007 | AANS - CNS Annual meeting, Miami, Florida, USA. |
| 2007 | 1 st International Brain Conference, Orlando, Florida, USA |
| 2006 | Annual meeting Society of Cell and Developmental Biology, Ann Arbor, MI |
| 2004 | The American Society of Human Genetics (ASHG), 54 th Annual meeting, Toronto, Canada |
| 2004 | The European Society of Human Genetics (ESHG), Annual meeting, Munich, Germany |
| 2003 | The European Society of Human Genetics (ESHG), Annual meeting, Birmingham, UK |
| 2002 | Germ Cell meeting, Cold Spring Harbor Laboratory, New York, USA |
| 2000 | World Conference on Clinical Pharmacology and Therapeutics IUPHAR. European Association for clinical Pharmacology and Therapeutics (EACPT), Florence, Italy, CPT |
| 1998 | International Academy of Pathology, Nice, France |

PUBLISHED ABSTRACTS

1. **B Behnam**, P Salehian, K Attar, et al: P53 protein expression and DNA ploidy analysis in squamous cell carcinoma of the esophagus in Iran. *J Arch-Anat-Cytol-Pathol*. 1998; 46(5-6): 388
2. **B Behnam**, MH Noori: Comparative study of Alcea Aulphurea (AS) and bromhexine hydrochloride (BH) consumption effects on the tracheal mucociliary system of luckhorn chicken. *British Journal of Clinical Pharmacology (BJCP) CPT 2000*, Florence 15-20 July. PP: 125
3. **B Behnam**, MH Noori: The effects of corn oil as an interactive nutrient on Liberkuhn glands of rabbit. *British Journal of Clinical Pharmacology (BJCP) CPT 2000*, Florence 15-20 July. PP: 241
4. **B Behnam**, MH Modarressi, S Povey and J Wolfe: Detection of TSGA10 Transcripts in mouse and rat testis. Germ Cells Meeting, Cold Spring Harbor Laboratory (CSHL), NY, USA October 2002.
5. **B Behnam**, MH Modarressi, S Povey, FVD Hoorn and J Wolfe: TSGA10 gene encodes a major sperm fibrous sheath protein with a myosin tail domain and expressed in embryogenesis and tumorigenesis as well as spermatogenesis. *European Journal of Human Genetics*. 2004 June; 12(1): 328.
6. **B Behnam**, Valerio Conti, Aldamaria Puliti, Jonathan Wolfe: TSGA10 expression during embryogenesis and neural development in parallel of spermatogenesis and malignancies. *Developmental Biology* 295 (2006) 464–466
7. **B Behnam**, L Paul, M Rammling, M Madan, JV Pattisapu. Aquaporin-1 and Aquaporin-4 Immunolocalization and Alteration in Hydrocephalic H-TX Rat Brain. AANS-CNS Annual meeting 2007.
8. **B Behnam**, JV Pattisapu, M Rammling, L Paul, M Madan: Nasal Drainage Of Cerebrospinal Fluid Is Diminished In Hydrocephalic Rat Pups. AANS - CNS Annual meeting 2007.
9. M Madan, M Rammling, L Paul, **B Behnam**, JV Pattisapu: Distressed Ependymal Cilia Movement In H-TX Hydrocephalic Rat Model. AANS-CNS Annual meeting 2007.
10. L Paul, M Madan, M Rammling, **B Behnam**, JV Pattisapu: The altered expression of aquaporin 1 and 4 in choroid plexus of congenital hydrocephalus. Society for Research into Hydrocephalus and Spina Bifida. Annual Meeting 2008. Long Island, USA
11. L Paul, **B Behnam**, M Madan, M Rammling, JV Pattisapu: Vinpocetine as a modulator of Aquaporin 1 and 4. Clinical Neurology and Neurosurgery Meeting 2008. Sept; 110:S30.
12. M Rammling, M Madan, L Paul, **B Behnam**, JV Pattisapu: Intranasal curcumin to improve olfactory CSF pathways–Preliminary findings. Clinical Neurology and Neurosurgery Meeting 2008. Sept; 110:S29-S30.
13. **B Behnam**, A Chahlavi: TSGA10 Cancer-Testis Antigen is a Ciliary-Centrosomal Protein and Overexpressed in Brain Cancers. Congress of Neurological Surgeons. Annual meeting 2008, Florida, USA.
14. A Roghanian, DC Jones, J Wolfe, JV Pattisapu, NT Young, **B Behnam**: Filamentous-shaped TSGA10 protein is expressed in professional antigen presenting cells and interacts with Vimentin. 2nd European Congress of Immunology, September 13 – 16, 2009, Berlin, Germany
15. **B Behnam**, NT Long, H Omran, JF Strauss 3rd, JV Pattisapu: TSGA10 is a ciliary-centrosomal protein that interacts with ODF2 and regulates cell proliferation. 20th Annual meeting of American College of Medical Genetics (ACMG), March 16-20, 2011, Vancouver, Canada
16. **B Behnam**, A Ahani, M Naseripour. Report of nine novel RB1 mutations in patients with retinoblastoma referred to Rasoul-e-Akram Tehran University hospital. Biannual Meeting – International Society of Ocular Oncology – ISOO 2011, November 14-17, 2011, Buenos Aires, Argentina.
17. **B Behnam**, SK Manistre, J Wolfe: TSGA10IP novel protein interacts with TSGA10, localized in sperm tail and expressed in embryogenesis. 21st Annual meeting of American College of Medical Genetics (ACMG), March 26-30, 2012, Charlotte, NC, USA
18. **B Behnam**, H. Fazilaty: Cross-talk between Cancer Stem Cells and Metastatic Niche, Emerging Metastasis Pathway? 22nd Annual meeting of American College of Medical Genetics (ACMG), March 19-23, 2013, Phoenix, AZ, USA

19. **B Behnam**, S Shojaee, H Otukesh, N Hooman, A Ahani, I Torktaz: Analysis of Human basolateral kidney Anion Exchanger 1 (kAE1) mutations in kidney membrane of Iranian patients involved in Renal Tubular Acidosis (RTA). 22nd Annual meeting of American College of Medical Genetics (ACMG), March 19-23, 2013, Phoenix, AZ, USA
20. **B Behnam**, E Abdollahpour, M Gatmiri: Implication for Diagnosis Primary Hyperoxaluria Type 1 (PH1) in Iran by Analysis AGXT1 Mutation Spectrum. 23rd Annual meeting of American College of Medical Genetics (ACMG), March 25-29, 2014, Nashville, TN, USA
21. **B Behnam**, H Fazilaty: SLUG and SOX9 Master Transcription Factors Regulate TNC and POSTN Extracellular Matrix Proteins, and Connect Cancer Stem Cell and Metastatic Niche in Breast Cancer Metastasis. 23rd Annual meeting of American College of Medical Genetics (ACMG), March 25-29, 2014, Nashville, TN, USA.
22. **B Behnam**, H Fazilaty: SLUG and SOX9 Cooperatively Regulate Tumor Initiating Niche Factors in Breast Cancer. 1st International Conference on Transcriptomics. July 27-29, 2015 Orlando, FL, USA.
23. **B Behnam**, Ghazi F, Hosseini R, Otukesh H, Ackouchakian M, Teimourian S, Atae Z, Vali F, Gahl WA. *CTNS* molecular genetics profile in a Persian nephropathic cystinosis population. (abstract #797T); Presented at the 66th Annual Meeting of The American Society of Human Genetics, October 18-22, 2016, Vancouver, Canada.

Novel Nucleotide and Mutation submissions

- ClinVar:

- NM_004937.2:c.661insT
- NM_001031681.2(CTNS):c.91dupG (p.Val31Glyfs)
- NM_004937.2(CTNS):c.120delC (p.Asn41Thrfs)
- NM_004937.2(CTNS):c.257_258delCT (p.Ser86Phefs)
- NM_004937.2(CTNS):c.323delA (p.Gln108Argfs)

- NucCore

- AF530050.3
- AY618264
- AY690667

PROFESSIONAL ORGANIZATIONS:

Member, American Society of Human Genetics (2016)
 Member, American College of Medical Genetics (ACMG) (2011-2014)
 Member and Advisory Committee, Iranian Society of Medical Genetics (ISMG) (2011-2014)
 Member, Society for Neuroscience (2007-2008)
 Member, Society of Cell and Developmental Biology (2006)
 Member, European Society of Human Genetics (2003-2004)
 Member, American Society of Andrology (2003-2004)
 Member, American Society of Human Genetics (2004)
 Member, Biochemical Society (2003-2004)