

# Vahid Khoddami, PhD

(Curriculum Vitae)

**Assistant professor**  
**Royan Institute for Stem Cell Biology & Technology**

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## Education:

**PostDoc** Dec 2014-Aug 2017 Department of Cell Biology, Harvard Medical School, MA, USA

**PostDoc** Jul 2013-Dec 2014 Huntsman Cancer Institute, University of Utah, UT, USA

**PhD** Aug 2013 **Oncological Sciences** University of Utah, UT, USA

Thesis: *Transcriptome-wide RNA modification profiling*

**MS** Dec 2006 **Medical Biotechnology** Tarbiat Modares University, Tehran, Iran

Thesis: *Vector-based RNAi in mammalian cells*

**BS** Aug 2003 **Medical Laboratory Sciences** Tehran University of Medical Sciences, Tehran, Iran

## Publications:

- Dehghanizadeh, S., **Khoddami, V.**, Mosbrugger, T.L., Hammoud, S.S., Edes, K., Berry, T.S., Done, M., Samowitz, W.S., DiSario, J.A., Luba, D.G., Burt, R.W., & Jones, D.A. Active BRAF-V600E is the key player in generation of a sessile serrated polyp-specific DNA methylation profile. *PlosOne*, In press (2018).
- **Khoddami, V.**, Yerra, A. & Cairns, B.R. Experimental Approaches for Target Profiling of RNA Cytosine Methyltransferases. *Methods in Enzymology*, 560, 273-96 (2015).
- Shakya, A., Callister, C., Goren, A., Yosef, N., Garg, N., **Khoddami, V.**, Nix, D., Regev, A., and Tantin, D. (2015). Pluripotency transcription factor oct4 mediates stepwise nucleosome demethylation and depletion. *Molecular and Cellular Biology*, 35, 1014-1025.
- **Khoddami V.**, Cairns B.R. Transcriptome-wide target profiling of RNA cytosine methyltransferases using the mechanism-based enrichment procedure Aza-IP. *Nature Protocols*, 2014. 9(2): p. 337-61.
- **Khoddami V.**, Cairns B.R. Identification of direct targets and modified bases of RNA cytosine methyltransferases. (2013) *Nature Biotechnology*, 31 (5), pp. 458-464.
- Rahbarizadeh, F., Nouri, M., Ahmadvand, D., Moosakhani, F., Sadeqzadeh, E., Kamali, A., Lavasani, S., **Khoddami Vishteh, V.**, Isolation of Lactobacillus salivarius and Lactobacillus crispatus strains from chicken gastrointestinal tract, having inhibitory effect on Salmonella enteritidis and Escherichia coli growth. *Iranian Journal of Biotechnology*, 2010. 8(1): p. 32-37.
- Ahmadvand, D., Rahbarizadeh, F., **Khoddami Vishteh, V.**, High-expression of monoclonal nanobodies used in the preparation of HRP-conjugated second antibody. *Hybridoma (Larchmt)*, 2008. 27(4): p. 269-76.

**Awards:**

- 2014 **James W. Prah1 Annual Award**, For outstanding contributions by a Graduate Student at the University of Utah in Biological or Biomedical Sciences, (Salt Lake City, UT, USA)
- 2013 **Best poster prize**, Gordon Research Conference; RNA Editing (Galveston, TX, USA)

**❖ Selected presentations:**

- 2017 RNA Epitranscriptome in Health and Disease. **Royan International Twin Congress; 13th Congress on Stem Cell Biology and Technology**, Tehran, Iran
- 2017 Distribution, Dynamics and Functions of Modified Ribonucleotides, Department of Genetics, **University of Texas MD Anderson Cancer Center**, Houston, TX, USA
- 2017 Distribution, Dynamics and Functions of Modified Ribonucleotides, RNA Therapeutics Institute (RTI), **University of Massachusetts Medical School**, Worcester, MA, USA
- 2017 RNA Epitranscriptome in Health and Disease. Department of Biological Sciences, **University of Texas at Dallas**, Dallas, TX, USA
- 2016 In-vivo labeling and capture of RNAs by engineered RNA cytosine methyltransferases. Department of Cell Biology, **Harvard Medical School**; Boston, MA, USA (Oral presentation)
- 2013 Target profiling and functional analysis of RNA cytosine methyltransferases. Cell Biology Seminar series, Department of Cell Biology, **Harvard Medical School**; Boston, MA, USA (Oral presentation)
- 2013 Epitranscriptome and Cancer. Seminar organized for visit of National Cancer Institute director; Prof. Harold Varmus, from University of Utah, **Huntsman Cancer Institute**, UT, USA (Oral presentation)
- 2013 A mechanism-based approach for transcriptome-wide target profiling of RNA cytosine methyltransferases. **Gordon Research Conference**; RNA Editing, Galveston, TX, USA (Poster presentation)
- 2012 Aza-IP: Isolating the direct targets of RNA cytosine methyltransferases, and the precise modified base. 2012 meeting on "Regulatory & Non-Coding RNAs" **Cold Spring Harbor Laboratory**, NY, USA (Oral presentation)
- 2011 In search of DNMT2 targets. Research in progress seminar series, University of Utah, Department of Oncological Sciences, **Huntsman Cancer Institute**, UT, USA (Oral presentation)

**Teaching experiences:**

- 2016 Teaching assistant for **Principles of Cell Biology** for graduate students, Harvard Medical School, MA, USA
- 2011 Teaching assistant for **Cell Biology** for graduate students, University of Utah, UT, USA
- 2010 Teaching assistant for **Gene Expression** for graduate students, University of Utah, UT, USA
- 2006 **Applications of Genomic databases in biomedical research**, Bioinformatics workshop, M.A.R.S Bioinformatics Institute, Tehran, Iran
- 2000 **Chemistry** for High-school students, Tehran, Iran

**Services:**

- 2006-2007 Organizer of a series of **Bioinformatics workshops** for graduate students, Tehran & Tarbiat Modares Universities, Tehran, Iran

**References:**

**Danesh Moazed, PhD**

Investigator, HHMI

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**Bradley R. Cairns, PhD (PhD Advisor)**

Investigator, HHMI

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Professor and Chair, Department of Oncological Sciences

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**Cynthia J. Burrows, PhD,**

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