

## Afsaneh Goudarzi

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### *Professional situation*

**2017-Present** -Assistant professor of Biochemistry at Shahid Beheshti University of Medical Sciences, Tehran, Iran.

### *Education & diploma*

**2012-2016** *Ph D*, Biochemistry (Université Grenoble Alpes, France)

**2014** *Internship* in Pr. Rafael Oliva's laboratory (Human Genetics Laboratory, Spain)

**2008-2011** *M. Sc.* Biochemistry (Guilan State University, Rasht, Iran)

### *Honors & Awards*

**2015-2016** **Scholarship:** Fondation Recherche ARC

**2012-2015** **Scholarship:** Marie Curie Fellowship

**2010** **Award:** Travel grant to attend "the 33rd annual meeting of JNS, Japan.

### *Research projects*

**2018-present** Role of the metabolic-epigenetics axis in driving metabolic disorders and cancer.

### *Oral & poster presentations at meetings*

- Biochemistry meeting (14-15<sup>th</sup> December 2017, Shahid Beheshti University of Medical Sciences, Tehran, Iran). **Dynamic competing histone H4 K5K8 acetylation and butyrylation is a hallmark of highly active gene promoters.**

- CLARA meeting (29-30<sup>th</sup> March 2016, Lyon, France). **Dynamic competing histone H4 K5K8 acetylation and butyrylation is a hallmark of highly active gene promoters.** Selected oral presentation.

- Chromatin, Transcription and Epigenetics meeting (3rd June 2015, Grenoble, France). **Brdt-dependent male genome gene expression controlled by an interplay between histone H4 acetylation and butyrylation.**

- 18<sup>th</sup> European Testis Workshop on the Molecular and Cellular Endocrinology of the Testis (13-17<sup>th</sup> May 2014, Elsinore, Denmark). **A specific CBP/p300-dependent gene expression programme drives metabolic remodelling in late stages of spermatogenesis.**

- 5th Florence-Utah International Symposium on Genetics of Male Infertility (19-21th September 2013). **Role of the histone acetyl transferases CBP and P300 during post-meiotic re-organization of the male genome.** Selected oral presentation (and poster).
- 33rd annual meeting of Japan Neuroscience Society (JNS). September 2nd to 4th 2010, Kobe, Japan. **Expression of Class II & IV HDACs during murine brain development.**

### **Training workshops**

#### **6<sup>th</sup>-10<sup>th</sup> July 2015, Barcelona, Spain:**

*Biomedical Application and Transfer of Knowledge Opportunities in Reproductive Medicine and Andrology.*

#### **31<sup>ST</sup>-4<sup>th</sup> April 2014, Marburg, Germany:**

*Drosophila genetics approaches;  
Assisted reproduction of the mouse, genetic approaches and immunohistochemistry*

#### **3<sup>rd</sup>-7<sup>th</sup> June 2013, Barcelona, Spain:**

*Epigenetics;  
Sperm phenotypic assessment.*

### **Selected Publications:**

1. Bourova-Flin E., Derakhshan S., Goudarzi A., Wang T., Vitte A.-L., Chuffart F., Khochbin S., Rousseaux S (2021). [The combined detection of Amphiregulin, Cyclin A1 and DDX20/Gemin3 expression predicts aggressive forms of oral squamous cell carcinoma.](#) *British Journal of Cancer.* 125: 1122-1134.
2. Goudarzi A., Hosseinmardi N., Salami S., Mehdikhani F., Derakhshan S., Aminishakib P. (2020). [Starvation promotes histone lysine butyrylation in the liver of male but not female mice.](#) *Gene.* 745:144647.
3. Goudarzi, A., Amiri-Yekta, A. (2020). [Regulated acyl-CoA synthetase short-chain family member 2 accumulation during spermatogenesis.](#) *Cell Journal.* 22(1): 66-70.
4. Shiota H, Barral S, Buchou T, Tan M, Couté Y, Charbonnier G, Reynoird N, Boussouar F, Gérard M, Zhu M, Bargier L, Puthier D, Chuffart F, Bourova-Flin E, Picaud S, Filippakopoulos P, Goudarzi A, Ibrahim Z, Panne D, Rousseaux S, Zhao Y, Khochbin S (2018). [Nut Directs p300-Dependent, Genome-Wide H4 Hyperacetylation in Male Germ Cells.](#) *Cell Rep.* 24:3477-3487.e6.
5. Goudarzi A, Zhang D, Huang H, Barral S, Kwon OK, Qi S, Tang Z, Buchou T, Vitte AL, He T, Cheng Z, Montellier E, Gaucher J, Curtet S, Debernardi A, Charbonnier G, Puthier D, Petosa C, Panne D, Rousseaux S, Roeder RG, Zhao Y, Khochbin S (2016). [Dynamic Competing Histone H4 K5K8 Acetylation and Butyrylation Are Hallmarks of Highly Active Gene Promoters.](#) *Molecular Cell.* 62:169-180.