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Name and surname: **Farzad Badmasti**

Working as assistant professor in **Pasteur institute of Iran.**



### **Professional Experience**

2016-Present: Assistant Professor, Department of Bacteriology, Pasteur Institute of Iran.

2016-Present: As Iran-site project manager and data manager in international pertussis project entitled “Pertussis Immunization programmer in Low and middle Income Countries” (PERILIC).

### **Contact Information**

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### **Education**

2003-2007: Microbiology, B.Sc. Tehran University, Tehran, Iran,

2007-2009: Medical Microbiology, M.Sc., Pasteur institute of Iran, Tehran, Iran,

2009-2015: Ph.D. in Medical Bacteriology, Pasteur institute of Iran, Tehran, Iran.

### **Projects**

1- Immunological evaluation of proteins associated with serum resistance against sepsis infection of *Acinetobacter baumannii* as vaccine candidates. (Badmasti *et al.*, Project in current)

2- Molecular detection of class1 integrons, IS*Aba*1 and IS*Aba*125 associated with antimicrobial resistance in clinical isolates of multi-drug resistant *Acinetobacter baumannii*. (Mirshekar *et al.*, Finished)

3- Analysis of molecular typing and clonal relatedness among multi-drug resistant *Acinetobacter baumannii* isolated from inpatients. (Piran *et al.*, Finished)

4- Investigation of genetic profile in known virulence factors among multidrug-resistance *Acinetobacter baumannii* isolated from clinical settings. (Shirazi *et al.*, Finished)

5- Rapid detection of *Acinetobacter baumannii* among clinical isolates (Seyedi *et al.*, Project in current).

## Research interest

1. Antimicrobial resistance
2. Molecular immunology
3. Molecular typing and epidemiology
4. Vaccine research
5. Bioinformatics

## Publications

- 1- Solgi H, Giske CG, **Badmasti F**, Aghamohammad S, Havaei SA, Sabeti S, Mostafavizadeh K & Shahcheraghi F (2017) Emergence of carbapenem resistant Escherichia coli isolates producing bla NDM and bla OXA-48-like carried on IncA/C and IncL/M plasmids at two Iranian university hospitals. *Infection, Genetics and Evolution*.
- 2- Maryam Mirshekar, Fereshteh Shahcheraghi, Omid Azizi, Hamid Solgi, **Farzad Badmasti**. Diversity of class 1 integrons, and disruption of carO and dacD by insertion sequences among Acinetobacter baumannii isolates in Tehran, Iran. *Microbial Drug Resistance* (2017).
- 3- H Solgi, **F Badmasti**, Z Aminzadeh, CG Giske, M Pourahmad, F Vaziri, SA Havaei, F Shahcheraghi. Molecular characterization of intestinal carriage of carbapenem-resistant Enterobacteriaceae among inpatients at two Iranian university hospitals: first report of co-production of blaNDM-7 and blaOXA-48 (2017). *European Journal of Clinical Microbiology & Infectious Diseases*. //:1-9.
- 4- Arezoo Piran, Fereshteh Shahcheraghi, Hamid Solgi, Mahdi Rohani, **Farzad Badmasti**. A reliable combination method to identification and typing of epidemic and endemic clones among clinical isolates of Acinetobacter baumannii (2017). *54: 501-507*
- 5- Omid Azizi, Fereshteh Shahcheraghi, Himen Salimizand, Farzan Modarresi, Mohammad Reza Shakibaie, Shahla Mansouri, Rashid Ramazanzadeh, **Farzad Badmasti**, Vajihe Nikbin (2016) Molecular Analysis and Expression of bap Gene in Biofilm-Forming Multi-Drug-Resistant Acinetobacter baumannii. *Reports of Biochemistry and Molecular Biology*. 5(1): 63-64.
- 6- Omid Azizi, Mohammad Reza Shakibaie, **Farzad Badmasti**, Farzan Modarresi, Rashid Ramazanzadeh, Shahla Mansouri, Fereshteh Shahcheraghi, (2016) Class 1 integrons in non-clonal multidrug-resistant Acinetobacter baumannii from Iran, description of the new blaIMP-55 allele in In1243. *Journal of Medical Microbiology*. 65(9):928-936.
- 7- Rajaei, B., Rad, N.S., **Badmasti, F.**, Razavi, M.R., Aghasadeghi, M.R., Saboohi, R., Rajaei, T., Moshiri, A. & Siadat, S.D. (2015) Multiple-Antibiotic Resistance in Salmonella enterica Serovars Isolated in Iran Harboring Class 1 Integrons. *British Microbiology Research Journal*, 5: 186.

- 8- **Badmasti, F.**, Siadat, S., Bouzari, S., Nasiri, O., Nemati, H. & Shahcheraghi, F. (2015) Molecular analysis of AbOmpA type-1 as immunogenic target for therapeutic interventions against MDR *Acinetobacter baumannii* infection. *Vaccine Research*, 2: 9-18.
- 9- **Badmasti, F.**, Ajdary, S., Bouzari, S., Fooladi, A.A.I., Shahcheraghi, F. & Siadat, S.D. (2015) Immunological evaluation of OMV (PagL)+ Bap (1-487aa) and AbOmpA (8-346aa)+ Bap (1-487aa) as vaccine candidates against *Acinetobacter baumannii* sepsis infection. *Molecular immunology*, 67:552-58.
- 10- **Badmasti, F.**, Siadat, S., Bouzari, S., Nasiri, O., Nemati, H. & Shahcheraghi, F. (2015) Molecular analysis of AbOmpA type-1 as immunogenic target for therapeutic interventions against MDR *Acinetobacter baumannii* infection. *Vaccine Research*, 2: 9-18.
- 11- **Badmasti, F.**, Shahcheraghi, F., Siadat, S.D., Bouzari, S., Ajdary, S., Amin, M., Halabian, R. & Imani Fooladi, A. (2015) Heterologous Expression of 3-O-Deacylase in *Acinetobacter baumannii* Modulates the Endotoxicity of Lipopolysaccharide. *Journal of molecular microbiology and biotechnology*, 25: 37-44.
- 12- Rajaei, B., Siadat, S.D., Rad, N.S., **Badmasti, F.**, Razavi, M.R., Aghasadeghi, M.R., Saboohi, R., Rajaei, T., Moshiri, A. & Nejati, M. (2014) Molecular detection of antimicrobial resistance gene cassettes associated with class 2 integron in *Salmonella* serovars isolated in Iran. *British Microbiology Research Journal*, 4: 132.
- 13- Salimizand, H., Shahcheraghi, F., Kalantar, E., **Badmasti, F.** & Mousavi, S.F. (2013) Molecular characterization of class 1 integrons and gene cassettes in multidrug resistant (MDR) *Klebsiella* spp. isolated from hospitalized and outpatients in Iran, 2009. *Iranian journal of microbiology*, 5: 48-55.
- 14- Rajaei, B., Siadat, S.D., Razavi, M.R., Aghasadeghi, M.R., Rad, N.S., **Badmasti, F.**, Jafroodi, S.K., Rajaei, T., Moshiri, A. & Javadian, S. (2011) Expanding drug resistance through integron acquisition in *Salmonella* spp. isolates obtained in Iran. *African Journal of Microbiology Research*, 5: 2249-53.
- 15- Shahcheraghi, F., **F. Badmasti**, et al. (2010). "Molecular characterization of class 1 integrons in MDR *Pseudomonas aeruginosa* isolated from clinical settings in Iran, Tehran." *FEMS Immunology & Medical Microbiology* 58(3): 421-425.