



Dr. Abbasali Raz, B.Sc., M.Sc., Ph.D.

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Background:

Dr. Abbasali Raz, holding a PhD degree in Medical Biotechnology and has been an assistant professor in the Malaria and Vector Research Group (MVRG), Pasteur Institute of Iran (PII) since 2013. He received a B.Sc. degree in laboratory sciences from Iran University of Medical Sciences in 2002 and a M.Sc. degree in Medical Biotechnology from Tarbiat Modarres University in 2006. He completed his PhD at Pasteur Institute of Iran.

His interest is in finding the Anopheles vectors (i.e. *An. stephensi*) target molecules that are involved in *Plasmodium* sexual development, molecular characterization and identification of insect proteins with biomedical applications and development of paratransgenic tools for malaria and other VBDs control.

He is teaching the bioinformatics (primer designing, genomics databases and phylogeny analysis), molecular biology and genetic engineering.

Currently, he is supervising PhD and M.Sc. students.

Current Projects:

- A grant from PII for “Identification of cpbAs2 gene of *Anopheles stephensi* which expressed in mosquito midgut as a VIMT candidate molecule and its expression evaluation after blood feeding”
- A grant from PII for “Recombinant expression of potato carboxypeptidase inhibitor and evaluate its effect on carboxypeptidase b1 and b2 of *Anopheles stephensi* to use in paratransgenic technique”

- A grant from Iran National Science Foundation for “Molecular characterization of RNaseIII gene from Asaia to provide basic information for developing a paratransgenesis tool against malaria”

Field Activities:

He is involved in field activities of MVRG for field trial vaccine challenge and sample collection.



Teaching Experiences:

- Lecturer, Bioinformatics (primer designing, genomics databases, *in silico* cloning and phylogeny analysis)
- Lecturer, Molecular Biology and Genetic Engineering.
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Supervision and Advisor to M. Sc. and PhD Thesis

- Four M.Sc. and two Ph.D students.

Administrative Experiences:

- Member, Biotechnology Research Center Council, Pasteur Institute of Iran (2011-onwards)

Teaching and Training:

- Bioinformatics and Molecular Cloning courses
- Real-time and PCR workshops.

Book:

He compiled a book entitled “ Theoretical and practical principles of gene expression” . Tarbiat Modarres publication.

Recent Publications (Last three years):

- Bakhshi H., **Raz AA**, Failloux A, Zakeri S, Djadid ND (2018). Mosquito-borne Viral Diseases and Potential Transmission Blocking Vaccine Candidates. **Infection, Genetics and Evolution** (in press).
- Rami A, **Raz AA**, Djadid ND, Zakeri S. (2018). Isolation and identification of *Anopheles* sp. in *Anopheles* spp. Mosquitoes collected from Iranian malaria settings: steps toward applying paratransgenic tools against malaria. **Parasites & Vectors** (in press).
- Vali Z, Raz A, Bokharaei H, Nabavi M, Bemanian MH, Yazdi MS, Djadid ND. Development of a High-resolution Melting Analysis Method Based on SYBR Green-I for rs7216389 Locus Genotyping in Asthmatic Child Patients. *Avicenna J Med Biotechnol* 2014 Apr;6(2):72-80.
2. Raz A, Dinparast Djadid N, Zakeri S. Molecular characterization of the carboxypeptidase B1 of *Anopheles stephensi* and its evaluation as a target for transmission-blocking vaccines. *Infect Immun* 2013 Jun;81(6):2206-16.
 3. Paryan M, Forouzandeh Moghadam M, Kia V, Mohammadi-Yeganeh S, Raz A, Mirab Samiee S. A Simple and Rapid Method for the Detection of HIV-1/HCV in Co-Infected Patients. *Iran J Biotech* 2013;11(2):74-9.
 4. Paryan M, Forouzandeh MM, Kia V, Mohammadi-Yeganeh S, Abbasali RA, Mirab SS. Design and development of an in-house multiplex RT-PCR assay for simultaneous detection of HIV-1 and HCV in plasma samples. *Iran J Microbiol* 2012 Mar;4(1):8-14.
 5. Bokharaei H, Raz A, Zakeri S, Djadid ND. 3'-RACE Amplification of Aminopeptidase N Gene from *Anopheles stephensi* Applicable in Transmission Blocking Vaccines. *Avicenna J Med Biotechnol* 2012 Jul;4(3):131-41.
 6. Djadid ND, Jazayeri H, Raz A, Favia G, Ricci I, Zakeri S. Identification of the midgut microbiota of *An. stephensi* and *An. maculipennis* for their application as a paratransgenic tool against malaria. *PLoS One* 2011;6(12):e28484.