

# Curriculum Vitae

## Personal information

First Name/Surname: Hovakim Zakaryan  
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Nationality: Armenian  
Date of birth: 29/06/1987  
Gender: Male  
Civil status: Married

## Work experience

Dates/Position held: 2008 – present/researcher  
Name of employer: Institute of Molecular Biology of NAS (Yerevan, Armenia)  
([www.molbiol.sci.am](http://www.molbiol.sci.am))

## Education – Postgraduate (PhD)

Dates: 2013  
Title of qualification: PhD in Biology, “Morphofunctional changes of the nucleus in different viral infections”  
Name of organization: Institute of Molecular Biology of NAS (Yerevan, Armenia)

## Education – Graduate

Dates: 2008 – 2010  
Title of qualification: Master of Science in Biology (specialization: Genetics)  
Name of organization: Yerevan State University (Yerevan, Armenia)  
([www.y-su.am](http://www.y-su.am))

## Education – Undergraduate

Dates: 2004 – 2008  
Title of qualification: Bachelor of Science in Biology (specialization: Genetics)  
Name of organization: Yerevan State University (Yerevan, Armenia)

## Awards, scholarships and grants

Dates: 2014-2015  
ANSEF grant recipient (microbio-2532)  
2014  
Equipment grant from Young Scientists Support Program  
2012  
The first prize of the young scientists competition in “Responsible

Science in a Global Security Environment: How to increase awareness?" ISTC Seminar, 23 Oct. 2012, Yerevan, Armenia  
FEBS YTF grant for "Host-microbes interaction" summer school, Island of Spetses, Greece (09 – 15/09/2012)

2011

FEBS Summer Fellowship

Institute of Clinical and Molecular Virology, Erlangen, Germany  
(01-30/09/2011)

2010 – 2011

ANSEF grant recipient (microbio-2532)

2010

FEBS YTF grant for "Host-microbes interaction" summer school, Island of Spetses, Greece (01 – 09/09/2010)

2008

Best oral presentation of International Young Scientists Conference "Perspectives for Development of Molecular and Cellular Biology" (10 – 12/05/2008, Yerevan, Armenia)

## Research Experience

- Dates: 2007 - 2008  
Cytological characteristics of several cell lines, including HeLa, Vero and BHK-21, after treatment with IFN and its synthetic inducers
- Name of organization: Institute of Molecular Biology of NAS (Yerevan, Armenia)
- Dates: January – April 2008  
Morphological characteristics of porcine lymphoid cells infected by African swine fever virus in vitro and in vivo
- Name of organization: Institute of Molecular Biology of NAS (Yerevan, Armenia)
- Dates: 2008 – present  
The influence of viruses on the host cell nucleus
- Name of organization: Institute of Molecular Biology of NAS (Yerevan, Armenia)

## Research Abroad

2013

Center of Molecular Biology Severo Ochoa, Madrid, Spain

2011

Institute for Clinical and Molecular Virology, Erlangen, Germany

## Language skills

Armenian (native), Russian (good), English (good)

## Other activities

- Dates: 2008 – 2009  
President of student scientific society of The Faculty of Biology, Yerevan State University
- Dates: 2-4 March 2009  
Head of organizing committee of “International Student Conference in Life Science” (Armenia)
- Dates: 2009 – present  
Secretary of External Communications Committee of Young Biologists Association (Armenia)
- Dates: 20-26 February 2011  
Secretary of organizing committee of FEBS Advanced Lecture “Trends in genetics: Genomic instability and pathways of response” (Armenia)
- Dates: 2-6 November 2012  
Organizer of Nobel Prize Laureates Lectures in Yerevan (Armenia)

## List of publications

1. **Zakaryan H**, Revilla Y (2015) African swine fever virus: current state and future perspectives in vaccine and antiviral research. *Vet Microbiol* 185:15-9.
2. **Zakaryan H**, Cholakyans V, Simonyan L, Misakyan A, Karalova E, Chavushyan A, Karalyan Z (2015) A study of lymphoid organs and serum proinflammatory cytokines in pigs infected with African swine fever virus genotype II. *Arch Virol.* 160(6):1407-14.
3. Karalova E, **Zakaryan H**, Voskanyan H, Arzumanyan H, Hakobyan A, Nersisyan N, Saroyan D, Karalyan N, Tatoyan M, Akopian J, Gazaryantz M, Mkrtychyan Z, Pogosyan L, Nersesova L, Karalyan Z (2015) Clinical and post-mortem investigation of genotype II induced African swine fever. *Porcine Res*, 1, 1-11.
4. **Zakaryan H**, Karalova E, Voskanyan H, Ter-Pogossyan Z, Nersisyan N, Hakobyan A, Saroyan D, Karalyan Z (2014) Evaluation of hemostaseological status of pigs experimentally infected with African swine fever virus. *Vet Microbiol*, 174(1-2), 223-8.
5. Karalova E, Voskanyan H, Nersesyan N, **Zakaryan H**, Abroyan L, Arzumanyan H, Karalyan N, Karalyan Z (2014) Evaluating porcine red blood cells in acute african swine fever virus (genotype II) infection in peripheral blood. *Journal of advances in biology*, 3(2), 227-233.

6. **Zakaryan H**, Karalyan Z (2013) Genetic instability and herpes simplex virus. *British Microbiology Research Journal*, 3(2), 176-189.
7. **Zakaryan H.**, Karalyan Z (2013) Quantitative analysis of RNA and acidic proteins of monoblasts and monocytes infected with African swine fever virus. *Proceedings of the YSU, Ser. Chemistry and biology*, 1(230), 47-49.
8. **Zakaryan H.**, Karalyan Z (2013) Nuclear metabolism of HeLa cells during infection with Poliovirus-1. *Electronic Journal of Natural Sciences*, 1(20), 53-56.
9. Karalyan ZA, Voskanyan HE, Ramazyan NV, **Zakaryan HS**, Karalova EM (2012) Interaction of *Paramecium caudatum* and Picornaviruses. *Ind J Virol*, 23: 382-386.
10. Karalova EM, Arzumanyan GA, **Zakarian OS**, Voskanyan GE, Sarkisian KhV, Karalian ZA (2012) Dynamics of changes in the composition of leukocyte population of peripheral blood during the African swine fever. *Vopr Virusol*, 57: 27-31.
11. Karalyan Z, **Zakaryan H**, Arzumanyan H, Sargsyan Kh, Voskanyan H, Hakobyan L, Abroyan L, Avetisyan A, Karalova E (2012) Pathology of porcine peripheral white blood cells during infection with African swine fever virus. *BMC Vet Res*, 8: 18.
12. Karalyan Z, **Zakaryan H**, Sargsyan Kh, Voskanyan H, Arzumanyan H, Avagyan H, Karalova E (2012) Interferon status and white blood cells during infection with African swine fever virus in vivo. *Vet Immunol Immunopathol*, 145(1-2): 551-555.
13. Karalyan ZA, Djaghatspanyan NG, **Zakaryan HS**, Hakobyan LH, Abroyan LO, Arakelyan AA, Ter-Pogossyan ZR, Semerjyan ZB, Avagyan HR, Karalova EM (2011) Behavior and main biological determinants of continuous cell lines elucidated by a principal component analysis. *Caryologia*, 64: 309-319.
14. **Zakaryan H**, Stamminger T (2011) Nuclear remodeling during viral infections. *Cell Microbiol*, 13: 806-813.
15. Karalyan ZA, Djaghatspanyan NG, Gasparyan MH, Hakobyan LH, Abroyan LO, Ter-Pogossyan ZR, **Zakaryan HS**, Karalova EM (2011) Properties of cells with increased resistance to some picornaviruses. *Microbial Pathogenesis*, 50: 243-251.
16. Karalova EM, Sargsyan KhV, Hampikian GK, Voskanyan HE, Abroyan LO, Avetisyan AS, Hakobyan LA, Arzumanyan HH, **Zakaryan HS**, Karalyan ZA (2011) Phenotypic and cytologic studies of lymphoid cells and monocytes in primary culture of porcine bone marrow during infection of African swine fever virus. *In vitro Cell Dev Biol*, 47: 200-204.
17. Karalova EM, Sargsyan KhV, Hampikian GK, Voskanyan HE, Abroyan LO, Avetisyan AS, Hakobyan LA, Arzumanyan HH, **Zakarian OS**, Karalyan ZA (2011) Pathology of lymphoid tissue cells infected by African swine fever virus in vitro. *Vopr Virusol*, 56: 33-37.

## List of selected meetings

18. **Zakaryan H**, Karalyan Z (2012) Cytometric characteristics of the nucleus during infection with human herpes virus 1. *International Young Scientists Conference "Perspectives for Development of Molecular and Cellular Biology-3"*, 26-29/09/2012, Yerevan, Armenia.
19. Hampikian GK, **Zakaryan HS**, Karalyan ZA (2010) Morphological and cytological changes of porcine lymphoid cell during African swine fever infection. *FEBS/EMBO Advanced Lecture Course "Host-microbes interactions"*, 01 - 09/09/2010, Island of Spetses, Greece.
20. **Zakaryan HS**, Avagyan HR, Voskanyan HE (2009) The role of *Paramecium caudatum* in ecology of picornaviruses. *International Conference & DAAD Alumni Seminar "Biotechnology and Health-3"*, 15 – 17/10/2009, Yerevan, Armenia.
21. **Zakaryan HS**, Karalyan ZA (2009) Reduction of titer of Poliovirus-1 by ciliated protozoan *Paramecium caudatum* during co-incubation time. *International Students Conference on Life Science*, 19 – 23/08/2009, Kyev, Ukraine.
22. **Zakaryan HS**, Karalyan ZA (2008) Impaction of INF and its synthetic inducers on genetic and cytologic activity of HeLa during cultivation period. *International Young Scientists Conference "Perspectives for Development of Molecular and Cellular Biology"*, 10 – 12/05/2008, Yerevan, Armenia.