Kristine Sergey Margaryan

kristinamargaryan@ysu.am

Research Institute of Biology
Laboratory of General and Molecular Genetics
Senior Researcher

Faculty of Biology
Research Institute of Biology
Laboratory of General and Molecular Genetics
Senior Researcher

Faculty of Biology
Chair of Genetics and Cytology
Lecturer on an hourly basis

Education

Institution	Yerevan State University
Faculty	Biology
Date	2002 - 2004
Degree name	Masters

Scientific Rank/degree

Institution	Yerevan State University
Date	2007
Degree name	Candidate
Scientific Supervisor	Հարությունյան Ռուբեն
Research Topic	Նոր պորֆիրինների գենաթունային և մոդիֆիկացնող հատկությունների ուսումնասիրությունը ԴՆԹ կոմետ մեթոդով

Language skills

Русский English Deutsch

Publications

Article

Population structure of wild and cultivated grapevines in Armenia
Kristine Margaryan, Maria Nikoghosyan, Emma Hovhannisyan, Nate Zadirako, Shengchang Duan, Armine Asatryan, Arsen Arakelyan, Anush Baloyan, Tomas Konecny, Hans Binder
BMC Plant Biology 2026 34
https://www.scopus.com/pages/publications/105033492783?origin=resultslist

Article

Genetic diversity and relationships of Vitis vinifera L. in the south caucasus
Franco Röckel, Kristine Margaryan, Vugar Salimov, David Maghradze, Gabriella De Lorenzis, Osvaldo Failla, Valérie Laucou, Thierry Lacombe, Rauf Asadullayev, Movlud Huseynov, Afet Huseynova, Reinhard Töpfer, Oliver Trapp, Erika Maul

Agriculture & Food Security 2026

https://doi.org/10.1186/s40066-026-00645-5

Conference

Genetic insights into recently discovered indigenous grapes from historical Armenian vineyards: implications for conservation and breeding
Kristine Margaryan, Franco Röckel, Bella Grigoryan, Kristina Avanesyan, Lilit Dallakyan, Oliver Trapp

IVES Conference Series 2026 73

https://gbg2026.com/

Conference

What 2,900 wild grapevines reveal about the genetic diversity of Vitis vinifera L. subsp. sylvestris
Franco Röckel, Gabriella De Lorenzis, Javier Tello, Goran Zdunić, Mark Timothy Rabanus-Wallace, Kristine Margaryan, Georgios Merkouropoulos, Valérie Laucou, María Teresa De Andrés, Francisco Baeta, Jorge Cunha1, Osvaldo Failla, Maria Stella Grando, Javier Ibáñez, Thierry Lacombe, Edi Maletić, Luka Marinov, Gregorio Munoz, Giacomo Pellissetti, Andrej Perko, Savvas Savvide, Anna Schneider, Dimitrios Taskos, Stanko Vršič, Halil Ibrahim Uzun, Reinhard Töpfer, Erika Maul

XIVth International Symposium on Grapevine Breeding and Genetics 2026 16

https://gbg2026.com/

Article

Armenia: historical origin of domesticated grapevine
Kristine Margaryan, Avag Harutyunyan, Bella Grigoryan, Aramais Mkrtchyan, Frunz Harutyunyan

IVES Conference Series 2025 7

Conference

Biodiversity and genetic profiling of autochthonous grapevine varieties in Armenia: A key to sustainable viticulture
Kristine Margaryan, Franco Röckel, Bella Grigoryan, Lilit Dallakyan, Frunz Harutyunyan, Aramayis Mkrtchyan, Sirun Hayrapetyan, Kristina Avanesyan, Artak Gabrielyan, Oliver Trapp

2025 35 - 35

https://www.hs-geisenheim.de/en/university/organization/administrative-units/co...

Conference

Armenia: historical origin of domesticated grapevines
Kristine Margaryan, Grigoryan Bella, Mkrtchyan Aramais, Harutyunyan Frunz

2024 2

https://ives-openscience.eu/47930/

Conference

A population genetic study of Vitis vinifera L. subsp. sylvestris Gmelin based on 3.000 individuals from 20 countries
Kristine Margaryan, Franco Röckel & 26 co-authors

2024 5

https://ives-openscience.eu/48073/

Article

Dual domestications and origin of traits in grapevine evolution

Kristine Margaryan, Yang Dong, Shengchang Duan, Qiuju Xia, Zhenchang Liang, Xiao Dong, Mirza Musayev, Svitlana Goryslavets, Goran Zdunić, Pierre-François Bert, Thierry Lacombe, Erika Maul, Peter Nick, Kakha Bitskinashvili, György Dénes Bisztray, Elyashiv Drori, Gabriella De Lorenzis, Jorge Cunha, Carmen Florentina Popescu, Rosa Arroyo-Garcia, Claire Arnold, Ali Ergül, Yifan Zhu, Chao Ma, Shufen Wang, Siqi Liu, Liu Tang, Chunping Wang, Dawei Li, Yunbing Pan, Jingxian Li, Ling Yang, Xuzhen Li, Guisheng Xiang, Zijiang Yang, Baozheng Chen, Zhanwu Dai, Yi Wang, Arsen Arakelyan, Varis Kuliyev, Gennady Spotar, Nabil Girollet, Serge Delrot, Nathalie Ollat, Patrice This, Cécile Marchal, Gautier Sarah, Valérie Laucou, Roberto Bacilieri, Franco Röckel, Pingyin Guan, Andreas Jung, Michael Riemann, Levan Ujmajuridze, Tekle Zakalashvili, David Maghradze, Maria Höhn, Gizella Jahnke, Erzsébet Kiss, Tamás Deák, Oshrit Rahimi, Sariel Hübner, Fabrizio Grassi, Francesco Mercati, Francesco Sunseri, José Eiras-Dias, Anamaria Mirabela Dumitru, David Carrasco, Alberto Rodriguez-Izquierdo, Gregorio Muñoz, Tamer Uysal, Cengiz Özer, Kemal Kazan, Meilong Xu, Yunyue Wang, Shusheng Zhu, Jiang Lu, Maoxiang Zhao, Lei Wang, Songtao Jiu, Ying Zhang, Lei Sun, Huanming Yang, Ehud Weiss, Shiping Wang, Youyong Zhu, Shaohua Li, Jun Sheng, Wei Chen

Science 2023 892-901

Article

Grapevine genetic resources of Armenia: molecular fingerprinting and phylogenetic relationship among wild and cultivated grapevine

Kristine Margaryan, Boris Gasparyan, Artur Petrosyan, Frunz Harutyunyan, Töpfer: Reinhard, Erika Maul

Vitis 2023 11-22

Article

Machine learned-based visualization of the diversity of grapevine genomes worldwide and in Armenia using SOMmelier

Kristine Margaryan, Maria Nikoghosyan, Anush Baloyan, Hripsime Gasoyan, Emma Hovhannisyan, Levon Galstyan, Tomas Konecny, Arsen Arakelyan, Hans Binder

BIO Web of Conferences 2023 1-7

Article

Wild grapes of Armenia: unexplored source of genetic diversity and disease resistance

Kristine Margaryan, Reinhard Töpfer, Boris Gasparyan, Arsen Arakelyan, Oliver Trapp, Franco Röckel, Erika Maul

Frontiers in Plant Science 2023 1-16

Conference

The hidden biodiversity of Vitis Vinifera L. in Armenia

Kristine Margaryan

2022 31

https://integrape.eu/event/integrape-2022/

Conference

Grapevine genetic resources of Armenia: molecular fingerprinting and phylogenetic

relationship among wild and cultivated grapevine
Margaryan Kristine, Maul Erika, Töpfer Reinhard, Harutyunyan Frunz, Gasparyan Boris

2022 23

https://gbg2022.julius-kuehn.de/

Article

Genetic Diversity of Armenian Grapevine (Vitis vinifera L.) Germplasm: Molecular Characterization and Parentage Analysis
Kristine Margaryan, Erika Maul, Reinhard Töpfer, Franco Röckel, Gagik Melyan

Biology 2021 1-22

Conference

EXPLORING THE GENETIC DIVERSITY OF ARMENIAN GRAPEVINE RESOURCES
K. Margaryan
2021 21

Conference

DETERMINATION OF TOTAL PHENOLIC CONTENT, ANTIMICROBIAL AND ANTIOXIDANT ACTIVITY OF GRAPE SKIN EXTRACTS FROM TEN ARMENIAN GRAPE VARIETIES FROM ARARAT VALLEY AND SYUNIQ REGION
K. Margaryan, Valentina Pavić, Milica Nedeljković, Mato Drenjančević

2021 1

http://www.ptfos.unios.hr/Hranom_Do_Zdravlja/index.php/en/717-2/

Article

SOMmelier-Intuitive Visualization of the Topology of Grapevine Genome Landscapes Using Artificial Neural Networks
Kristina Margaryan, Maria Nikoghosyan, Maria Schmidt, Henry Loeffler-Wirth, Arsen Arakelyan,

Hans Binder
Genes 2020 1-22

Article

CONSERVATION STRATEGY AND REVITALIZATION OF ENDANGERED AUTOCHTHONOUS GRAPEVINE VARIETIES IN ARMENIA
Margaryan Kristine, Kuchukyan Elza, Melyan Gagik

МАГАРАЧ. ВИНОГРАДАРСТВО И ВИНОДЕЛИЕ 2020 65-67

Conference

Case study: Impact of INTEGRAPE on documentation and molecular characterization of grape genetic resources in Armenia
Kristine Margaryan, Gagik Melyan, Erika Maul

2020 30-31

http://www.integrape.eu/index.php/events

Article

Description of the Vitis vinifera L. phenotypic variability in eno-carpological traits by a Euro-Asiatic collaborative network among ampelographic collections.
L. Rustioni, G. Cola, D. Maghradze, E. Abashidze, A. Argiriou, R. Aroutiounian, J. Brazão, R. Chipashvili,

M. Cocco, V. Cornea, L. Dejeu, J. E. Eiras-Dias, S. Goryslavets, J. Ibáñez, L. Kocsis, F. Lorenzini, E. Maletic,

L. Mamasakhlisashvili, K. Margaryan, E. Maul, I. Mdinaradze, G. Melyan, S. Michailidou, D. Molitor,

M. I. Montemayor, G. Muñoz Organero, A. Nebish, G. Németh, N. Nikolaou, C. F. Popescu, D. Preiner, S. Raimondi, V. Risovannaya, G. Savin, S. Savvides, A. Schneider, F. Schwander, J. L. Spring, L. Ujmajuridze, E. Zioziou, O. Failla, R. Bacilieri

Vitis 2019 37–46

Article

Armenian National Grapevine Collection: Conservation, Characterization and Prospects
K. Margaryan, E. Maul, Z. Muradyan, A. Hovhannisyan, H. Devejyan, G. Melyan, R. Aroutiounian

BIO Web of Conferences 2019 1-5

Article

Evaluation of breeding potential of wild grape originating from Armenia
K. Margaryan, E. Maul, Z. Muradyan, A. Hovhannisyan, G. Melyan, R. Aroutiounian

BIO Web of Conferences 2019 1-5

Conference

Multidisciplinary characterization of Armenian grape germplasm

Kristine Margaryan

2019 41

http://www.integrape.eu/index.php/events

Conference

ARMENIAN VITIS DATABASE: CONSERVATION AND DOCUMENTATION OF GRAPEVINE GENETIC RESOURCES IN ARMENIA
Kristine Margaryan, Rouben Aroutiounian, Arsen Arakelyan, Gagik Melyan, Zara Muradyan, Erika Maul

2019 332

http://oiv2019.ch/2019/

Conference

EVALUATION OF BREEDING POTENTIAL OF WILD GRAPE ORIGINATING FROM ARMENIA
Kristine Margaryan, Gagik Melyan, Rouben Aroutiounian

2019 38-39

http://oiv2019.ch/2019/

Conference

Prospects of plant genome editing in Armenia
K. Margaryan, A. Arakelyan

2019 24

https://plantgenomeediting.eu/planted-events/

Article

Effect of melanin on the yield of winter wheat in the presowing treatment of seeds
Margaryan Kristine, Sadoyan Ruzanna, Azaryan Keti

Austrian Journal of Technical and Natural Sciences 2018 20-25

Article

Screening of Armenian grape varieties for susceptibility to downy mildew
Margaryan K., Hakob Devejyan, Gagik Melyan

МАГАРАЧ. ВИНОГРАДАРСТВО И ВИНОДЕЛИЕ 2018 47-49

Conference

Phenotypic and molecular characterization of Armenian grape cultivars for resistance to downy mildew

Kristine Margaryan, Rouben Aroutiounian., Gagik Melyan

2018 63

Conference

A retrotransposon-inserted VvmybA1a allele analysis of Armenian and Croatian grapevines.

Kristine Margaryan, Mato Drenjancevic, Vladimir Jukić, Toni Kujundžić, Gagik Melyan,

Rouben Aroutiounian

2018 260

Conference

Armenian National Grapevine Collection: Conservation, Characterization and Prospects

Kristine Margaryan, E. Maul, Z. Muradyan, G. Melyan, R. Aroutiounian

2018 34-35

https://www.bio-conferences.org/articles/bioconf/abs/2019/01/contents/contents...

Conference

Preliminary HTS analysis and RT-qPCR assays on grapevine germplasm from Armenia show a content of background latent viruses and viroids and the absence of noxious viral pathogens.

Kristine Margaryan, Michela Chiumenti, Arsen Arakelyan, Raied Abou Kubaa, Angelantonio Minafra

2018 34

http://www.cost-divas.eu/

Article

Phenolic content and antioxidant activity of Armenian cultivated and wild grapes

Kristine Margaryan,, Gagik Melyan, Diana Vardanyan, Hakob Devejyan, Rouben Aroutiounian

BIO Web of Conferences 2017 1-6

http://www.bio-conferences.org/component/issues/?task=all&Itemid=121

Conference

Total phenolic content and total antioxidant activity of Armenian and Croatian local red wines

Kristine Margaryan, Rouben Aroutiounian, Vladimir Jukić, Toni Kujundžić, Mato Drenjančević

2017 248

http://sa.pfos.hr/index_en.html

Conference

Phenolic content and antioxidant activity of Armenian cultivated and wild grapes

Kristine Margaryan, Gagik Melyan, Diana Vardanyan, Hakob Devejyan, Rouben Aroutiounian

2017 154

https://www.bio-conferences.org/articles/bioconf/abs/2017/02/contents/contents...

Conference

Optimization of explant surface sterilization conditions for potato variety´Red Scarlet´

Melyan G.H., Asatryan G.V., Sahakyan A.J., Devejyan H.H., Margaryan K.S., Nebish A.A.

2017 143-145

https://www.sci.am/filedwnl.php?id=349&langid=2

Article

Study of Armenian grape cultivars for resistance to downy mildew
Margaryan K., Vardanyan D., Devejyan H.

Biological Journal of Armenia 2016 85-88

http://www.flib.sci.am/eng/Biology/

Article

Preliminary study of Armenian grapevines phenolic contents.
Margaryan K., Aroutiounian R., Melyan G., Failla O.

Vitis 2015 155-156

http://pub.jki.bund.de/index.php/VITIS/index

Article

Armenian grapevines: cytoembryological, morphological and chemical analysis.
Aroutiounian R., Nebish A., Margaryan K., Melyan G.

Vitis 2015 139-142

http://pub.jki.bund.de/index.php/VITIS/index

Article

Phenotypic profiles of Armenian grape cultivars.
Rouben Aroutiounian, Anna Nebish, Gagik Melyan, Kristine Margaryan

BIO Web of Conferences 2015 01011 - p. 1-5

http://www.bio-conferences.org/component/issues/?task=all&Itemid=121

Article

Genetic analysis of the VvMybA1 gene in Armenian grapevines (V. Vinifera L.)
K. Margaryan, G. De Lorenzis, R. Aroutiounian, O. Failla

Vitis 2015 49-50

http://pub.jki.bund.de/index.php/VITIS/index
