

Kristine Sergey Margaryan

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Research Institute of Biology

Laboratory of General and Molecular Genetics

Senior researcher

Education

Institution	YSU
Faculty	Biology
Date	2002 - 2004
Degree name	Masters

Scientific Rank/degree

Institution	YSU
Date	2007
Degree name	Candidate
Specialty	Biological sciences
Scientific Supervisor	Հարությունյան Ռուբեն
Research Topic	Նոր պորֆիրինների գենաթունային և մոդիֆիկացնող հասկությունների ուսումնասիրությունը ԴՆԹ կոմետ մեթոդով

Language skills

Русский English Deutsch

Publications

Article

Armenia: historical origin of domesticated grapevine

Kristine Margaryan, Avag Harutyunyan, Bella Grigoryan, Aramais Mkrтчyan, Frunz Harutyunyan

IVES Conference Series 2025 7

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 Kulyev, 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, Sarel 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 - Journal of Grapevine Research 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

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

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

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. Mdinardze, 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 - Journal of Grapevine Research 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

Article

Effect of melanin on the yield of winter wheat in the presowing treatment of seeds

Margaryan Kristine, Sadoyan Ruzanna, Azaryan Ketii

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

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>

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 - Journal of Grapevine Research 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 - Journal of Grapevine Research 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 - Journal of Grapevine Research 2015 49-50

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

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

Conference

Phenolic content and antioxidant activity of Armenian cultivated and wild grapes

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

Conference

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

Kristine Margaryan, Rouben Aroutiounian., Gagik Melyan

Conference

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

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

Rouben Aroutiounian

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.

Conference

Armenian National Grapevine Collection: Conservation, Characterization and Prospects

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

Conference

Multidisciplinary characterization of Armenian grape germplasm

Kristine Margaryan

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

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

Conference

EVALUATION OF BREEDING POTENTIAL OF WILD GRAPE ORIGINATING FROM ARMENIA

Kristine Margaryan, Gagik Melyan, Rouben Aroutiounian

Conference

Prospects of plant genome editing in Armenia

K. Margaryan, A. Arakelyan

Conference

Case study: Impact of INTEGRAPE on documentation and molecular characterization of grape genetic resources in Armenia

Kristine Margaryan, Gagik Melyan, Erika Maul

Conference

EXPLORING THE GENETIC DIVERSITY OF ARMENIAN GRAPEVINE RESOURCES

K. Margaryan

Conference

The hidden biodiversity of Vitis Vinifera L. in Armenia

Kristine Margaryan

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

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

Conference

Armenia: historical origin of domesticated grapevines

Kristine Margaryan, Grigoryan Bella, Mkrtychyan Aramais, Harutyunyan Frunz

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

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
