

# 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

#### 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 Kuliyeu, 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

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*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

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*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

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*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

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*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

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*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

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*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

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*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 - Journal of Grapevine Research 2019 37-46

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*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

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*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

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*Article*

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

Margaryan Kristine, Sadoyan Ruzanna, Azaryan Ketì

Austrian Journal of Technical and Natural Sciences 2018 20-25

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*Article*

**Screening of Armenian grape varieties for susceptibility to downy mildew**

Margaryan K., Hakob Devejyan, Gagik Melyan

МАГАРАЧ. ВИНОГРАДАРСТВО И ВИНОДЕЛИЕ 2018 47-49

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*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>

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*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/>

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*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>

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*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>

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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>

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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>

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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

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Conference

**Phenolic content and antioxidant activity of Armenian cultivated and wild grapes**

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

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Conference

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

Kristine Margaryan, Rouben Aroutiounian., Gagik Melyan

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Conference

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

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

Rouben Aroutiounian

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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.

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Conference

**Armenian National Grapevine Collection: Conservation, Characterization and Prospects**

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

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Conference

**Multidisciplinary characterization of Armenian grape germplasm**

Kristine Margaryan

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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

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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

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*Conference*

### **EVALUATION OF BREEDING POTENTIAL OF WILD GRAPE ORIGINATING FROM ARMENIA**

Kristine Margaryan, Gagik Melyan, Rouben Aroutiounian

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*Conference*

### **Prospects of plant genome editing in Armenia**

K. Margaryan, A. Arakelyan

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*Conference*

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

Kristine Margaryan, Gagik Melyan, Erika Maul

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*Conference*

### **EXPLORING THE GENETIC DIVERSITY OF ARMENIAN GRAPEVINE RESOURCES**

K. Margaryan

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*Conference*

### **The hidden biodiversity of Vitis Vinifera L. in Armenia**

Kristine Margaryan

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*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

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*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

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*Conference*

### **Armenia: historical origin of domesticated grapevines**

Kristine Margaryan, Grigoryan Bella, Mkrtchyan Aramais, Harutyunyan Frunz

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*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

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