

Diana Vardanyan PERSONAL INFORMATION

WORK EXPERIENCE				
2015-2018	Senior laboratory assistant, Project 15T- 1E232,			
	"The role of Armenian cultivated and wild grapevine biodiversity in environmental balance"			
	Among the main tasks and techniques applied:			
	- collection of forty aboriginal varieties, interspecific and intraspecific hybrids and wild species of			
	grapevine			
	- separation seeds and skin			
	- the Folin–Ciocalteu method for analysis of total polyphenols			
	- the free radical-scavenging ability of grape skin and seed extracts			
	- Phenotypic evaluation of thirty Armenian grape genotypes by leaf disc method and molecular			
	characterization by DNA- based molecular markers related to resistance genes of Downy mildew			
EDUCATION AND TRAINING				
2010-2014	Bachelor's degree of Biology, Yerevan State University, Armenia			
	Thesis: Determination of VvMBA1 gene polymorphism by polymerase chain reaction (PCR)			
2014-2016	Master's degree of Biology, Yerevan State University, Armenia			
	Thesis: Evaluation of the resistance of Armenian grape varieties to Downy Mildew disease			
From 2020	PhD at University of Salento, Lecce, Italy			
	Using extracellular vesicles for diagnosis of glioblastoma multiforme by miniaturized nuclear magnetic			
	resonance			
	Among the main tasks and techniques applied:			
	- maintenance of cell cultures for four different glioblastoma cell lines			
	- treatment by Temozolomide and drug-dose dependent cell viability			

- -Isolation of extracellular vesicles by size exclusion chromatography and differential centrifugation
- -preparations of biological samples for transmission electron microscopy and atomic force microscopy
- -extraction and evaluation of protein concentration from cells and extracellular vesicles
- -SDS-PAGE
- -Western Blot
- Shotgun liquid chromatography-tandem mass spectrometry proteomic analysis -Wound Healing (SCRATCH) assay

Mother tongue(s)

- Armenian
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Curriculum Vitae

Other language(s)	UNDERSTANDING		SPEAKING		WRITING	
	Listening	Reading	Spoken interaction	Spoken production		
Russian	C2	C2	C2	C2	C2	
English	C1	C1	C1	C1	C1	
Italian	A2	A2	A2	A2	A2	
Job-related skills	Common European Framework of Reference for Languages Laboratory skills: Cell culture techniques 2D and 3D on the scaffold, 2,5-diphenyl-2H-tetrazolium bromide (MTT) assay, Wound healing assay, Western Blot, Polymerase chain reaction (PCR), Real Time PCR, RNA and DNA extraction, single-cell gel electrophoresis (Comet assay), Isolation of extracellular vesicles by Size exclusion chromatography, ultracentrifugation, sample preparation for Transmission electron Microscopy (TEM) and atomic force microscopy (AFM), immunofluoresce techniques and apotome fluorescence microscopy, Confocal microscopy, Software Data analysis skills: ImageLab, ImageJ (Fiji), ZEISS ZEN lite, GraphPad Prism					
Computer skills	Competent with computers and different operating systems (Windows and macOS), Office packages (Word, Excel, PowerPoint), and graphics programs (such as Adobe Photoshop).					
Membership	Junior Membership of the International Society for Extracellular Vesicles (ISEV) Junior Membership of Società Italiana per le vescicole Extracellulari					

Publications 1. Panzarini E, Leporatti S, Tenuzzo BA, Quarta A, Hanafy NAN, Giannelli G, Moliterni C, Vardanyan D, Sbarigia C, Fidaleo M, Tacconi S, Dini L. Therapeutic Effect of Polymeric Nanomicelles Formulation of LY2157299-Galunisertib on CCl4-Induced Liver Fibrosis in Rats. Journal of Personalized Medicine. 2022; 12 (11):1812. https://doi.org/10.3390/jpm12111812

2. Sbarigia C, *Vardanyan D*, Buccini L, Tacconi S and Dini L (2022) SARS-CoV-2 and extracellular vesicles: An intricate interplay in pathogenesis, diagnosis and treatment. Front. Nanotechnol. 4:987034. https://doi.org/10.3389/fnano.2022.987034

3. Margaryan K., Melyan G., *Vardanyan D.*, Devejyan H., Aroutiounian R. Phenolic content and antioxidant activity of Armenian cultivated and wild grapes. 40th World Congress of Vine and Wine, BIO Web of Conferences 9, 02029 (2017), https://doi.org/10.1051/bioconf/20170902029

Poster 1. Diana Vardanyan, Stefano Tacconi, Simone Dinarelli, Maria Concetta Cufaro, Elisa Panzarini, Piero Del Boccio, Luciana Dini. "Can Extracellular Vesicles derived from different temozolomide-treated glioblastoma multiforme cell lines be exploited as liquid biopsy?". ISEV2022 (INTERNATIONAL SOCIETY OF EXTRACELLULAR VESICLES), 2022, Lyon.

2. Kristine Margaryan, Gagik Melyan, **Diana Vardanyan**, Hakob Devejyan and Rouben Aroutiounian, Phenolic content and antioxidant activity of Armenian cultivated and wild grapes. 40th World Congress of Vine and Wine, Book of Abstract p. 154, May 29 to June 2, 2017, Sofia – Bulgaria.

3. Margaryan K., *Vardanyan D.*, Devejyan H.H.1, Aroutiounian R.M. Study of Armenian grape cultivars for resistance to downy mildew. The International Young Scientists Conference "NEW TRENDS IN LIFE SCIENCES" Dedicated to the 50th anniversary of the Institute of Molecular Biology NAS RA, 2016,



Yerevan, Armenia

4. Nebish A., **Vardanyan D**., Devejyan H., Aroutiounian R., Cytoembryological profiles of some Armenian grapevine cultivars. The International Young Scientists Conference "NEW TRENDS IN LIFE SCIENCES" Dedicated to the 50th anniversary of the Institute of Molecular Biology NAS RA, 2016, Yerevan, Armenia

Oral presentations 1. *D. Vardanyan*, S. Tacconi, S.Dinarelli, F. Mura, M.C. Cufaro, E.Panzarini, P. Del Boccio, L.Dini, Glioblastoma multiforme-derived extracellular vesicles undergo proteomic changes after treatment with chemotherapeutic agent Temozolomide, Workshop "EVIta connect: Fostering collaboration",29-30 September 2022, Turin, Italy

2. *D. Vardanyan*, S. Tacconi, S. Dinarelli, F. Mura, M.C. Cufaro, E. Panzarini, D. Passeri, M. Girasole, G. Longo, M. Rossi, P. Del Boccio, L.Dini, A step toward precision medicine using extracellular vesicles derived from different temozolomide-treated glioblastoma cells.Conferance NanoInnovation 2022, 19-23 September 2022,Rome, Italy

- Congresses and workshops 1. "Nanoinnovation 2021", 21-24 September 2021, Rome, Italy.
 - 2. ISEV2022, 25-29 May 2022, Lyone, France.
 - 3. "Nanoinnovation 2022", 19-23 September 2022, Rome, Italy.
 - 4. "EVIta connect: Fostering collaboration" workshop, 29-30 September 2022, Turin, Italy

La sottoscritta dichiara di essere consapevole che il presente curiculum vitae sarà pubblicato sul sito istituzionale dell'Ateneo, nella Sezione "Amministrazione trasparente", nelle modalità e per la durata prevista dal d.lgs. n. 33/2013, art. 15.

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f.to Diana Vardanyan