

Inga Levon Bazukyan

Faculty of Biology

Chair of Biochemistry, Microbiology, and Biotechnology
Associate professor

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✉ bazukyan@ysu.am



Education

Institution	Yerevan State University
Faculty	Faculty of Biology
Date	1992 - 1997
Degree name	Qualified specialist

Scientific Rank/degree

Institution	Yerevan State University
Date	2007
Degree name	Candidate
Specialty	Biological sciences
Scientific Supervisor	Արթուր Համբարձումյան
Research Topic	COMPARATIVE CHARACTERIZATION AND POSSIBLE APPLICATION OF PHENYLALANINE – AMMONIA-LYASES OF PLANT (HELIANTHUS TUBEROSUS L.) AND YEAST (RHODOTORULA AURANTIACA KM-1) ORIGIN

Institution	Yerevan State University
Date	2015
Degree name	Associate professor
Specialty	Biological sciences

Language skills

Հայերեն Русский English

Work experience

Institution	Astghik Medical Center, Yerevan
Period of time	2019 - 2021
Rank/degree	Medical Laboratory Scientist

Institution	University of Traditional Medicine of Armenia, Yerevan
Period of time	2016 - 2020

Rank/degree Invited Professor

Institution Yerevan State University

Period of time 2015 till now

Rank/degree Associate Professor

Institution Yerevan State University, Yerevan

Period of time 2008 - 2015

Rank/degree Assistant of Professor

Institution «Vitamax E» PC, Yerevan

Period of time 2008 - 2015

Rank/degree Senior microbiologist

Institution Yerevan State University, Yerevan

Period of time 2006 - 2009

Rank/degree Scientific Researcher, Lecturer

Institution Yerevan State University, Yerevan

Period of time 1997 - 2006

Rank/degree Senior Researcher

Scientific interests

- biotechnology
 - microbiology
 - biochemistry
-

Participation in international conferences and seminars

22/06/2020 ASM Microbe 2020
ASM
United States of America (the)

29/11/2020 - 30/11/2020 V International Conference of Biotechnology and Health.
SCIENTIFIC AND PRODUCTION CENTER "ARMBIOTECHNOLOGY" NAS RA
Armenia

20/11/2021 - 22/11/2021 «BIOTECHNOLOGY: Science and Practice. Innovation and Business»
SCIENTIFIC AND PRODUCTION CENTER "ARMBIOTECHNOLOGY" NAS RA
Armenia

29/09/2023 - 01/10/2023 31st International Conference of FFC "Functional Foods and Bioactive Compounds: Modern and Medieval Approaches"
Yerevan State University
Armenia

09/11/2023 - 11/11/2023 International conference "Kliment's day 2023 - 60 year Faculty of Biology
Sofia State University
Bulgaria

Membership

Institution Biotechnological Armenian Association
Period of time 2007 till now

Institution Federation of European Microbiological Society
Period of time 2006 till now

Institution Federation of European Biochemical Society
Period of time 2005 till now

Institution American Society of Microbiologist
Period of time 2013 till now

Publications

Article

Amplicon-based metagenomic characterization of the microbiome of the traditional “Bieno” cheese produced in North Macedonia

Inga Bazukyan, Slavica Josifovska, Vilma Posheva, Vesselin V. Doytchinov, Konstantinos Papadimitriou, Velitchka Gotcheva, Svetoslav G. Dimov
Food Bioscience 2024 103552

Article

Important properties of lactic acid bacteria and their role in industry

T. Aleksanyan, L.(Lusine) Hakobyan, S. Dimov, T. Haertle, I. Bazukyan
Microbial Essentialism: An Industrial Prospective 2024 1-46

Article

In Silico Probiogenomic Characterization of Lactobacillus delbrueckii subsp. lactis A4 Strain Isolated from an Armenian Honeybee Gut

Bazukyan Inga, Georgieva-Miteva D., Velikova T., Dimov S.G.
Insects 2023 1-12

Article

The effects of ultraviolet, gamma- and X-ray irradiation on the growth, antibacterial activity

and radio-protective of Lactobacillus rhamnosus

I.L.Bazukyan, A.V. Rostomyan, A.G. Hovhannisyanyan, T.M. Aleksanyan, L.L. Hakobyan, A.M. Dallakyan,

T. Haertle

Letters in Applied Microbiology 2022 1151-1159

Article

Antifungal Activity of Lactic Acid Bacteria Isolates and Their Associations: The Effects of Ca and Mg Divalent Cations

Lusine Matevosyan, Inga Bazukyan, Armen Trchounian

Current Microbiology 2020 959-966

Manual

ՍՈՒԵԿՈՒԼԱՅԻՆ ՄԱՆՐԵԱԲԱՆՈՒԹՅԱՆ ԼԱԲՈՐԱՏՈՐ ԱՇԽԱՏԱՆՆԵՐ
Հ.Հ. Փանոսյան, Ա.Ա. Մարգարյան, Ի.Լ. Բազուկյան, Ա.Հ. Թռչունյան

2020 120

Article

Comparative analysis of the effect of Ca and Mg ions on antibacterial activity of lactic acid bacteria isolates and their associations depending on cultivation conditions

Lusine Matevosyan, Inga Bazukyan, Armen Trchounian

AMB Express 2019 1-11

Article

Antifungal and antibacterial effects of newly created lactic acid bacteria associations depending on cultivation media and duration of cultivation

Lusine Matevosyan, Inga Bazukyan, Armen Trchounian

BMC Microbiology 2019 1-8

Article

IDENTIFICATION AND COMPARATIVE CHARACTERIZATION OF NEW LACTIC ACID BACTERIA ISOLATED FROM ARMENIAN DAIRY PRODUCTS BY PHENOTYPIC AND MOLECULAR METHODS

I.L. Bazukyan

Proceedings of the YSU B: Chemical and Biological Sciences 2018 45-51

<http://ysu.am/science/en/scientific-magazine>

Article

Antifungal activity of lactobacilli isolated from Armenian dairy products: an effective strain and its probable nature

Inga Bazukyan, Lusine Matevosyan, Anna Toplaghalsyan, Armen Trchounian

AMB Express 2018 1-8

<https://amb-express.springeropen.com/>

Article

The effects of different carbon sources on the antifungal activity by lactic acid bacteria

Anna Toplaghalsyan, Inga Bazukyan, Armen Trchounian

Current Microbiology 2017 168-174

<http://www.springer.com/life+sciences/microbiology/journal/284>

Article

Aggregation and Adhesion Activity of Lactobacilli Isolated from Fermented Products In Vitro

and In Vivo: a Potential Probiotic Strain

S. Grigoryan, I. Bazukyan, A. Trchounian

Probiotics and Antimicrobial Proteins 2017 1-8

<http://www.springer.com/chemistry/journal/12602>

Article

Application of silver nanoparticles and CdSe quantum dots sensitized with of C-like lectin for detection of St. aureus Comparison of various approaches

Inga L. Bazukyan, Varduhi A. Hovhannisyan, Vardan.K. Gasparyan

Talanta 2017 1-16

<http://www.sciencedirect.com/science/journal/00399140?sdc=1>

Article

ՀԱՅԱՍՏԱՆԻ ԹԹՈՒ ԴՐԱԾ ԲԱՆՉԱՐԵՂԵԼԻՑ ՄԵԿՈՒՍԱՑՎԱԾ ԿԱԹՆԱԹԹՎԱՅԻՆ ԲԱԿՏԵՐԻԱԼՆԵՐԻ ՀԱԿԱԲԱԿՏԵՐԻԱԿԱՆ ԱԿՏԻՎՈՒԹՅԱՍԲ ՕԺՏՎԱԾ ԲԱՂԱԴՐԻՉՆԵՐԻ ՈՐՈՇ ՀԱՏՎՈՒԹՅՈՒՆՆԵՐԸ

Արշալույս Վերոյան, Ինգա Բազուկյան, Արմեն Թռչունյան

ԵՊՀ ՈՒԳԸ գիտական հոդվածների ժողովածու 2017 147-156

Article

Lactobacilli isolated from the Armenian fermented milk product matsoun: growth properties, antibacterial and proteolytic activity and their dependence on pH

Andranik Keryan, Inga Bazukyan, Armen Trchounian

INTERNATIONAL JOURNAL OF DAIRY TECHNOLOGY 2016 1-10

[http://onlinelibrary.wiley.com/journal/10.1111/\(ISSN\)1471-0307/issues](http://onlinelibrary.wiley.com/journal/10.1111/(ISSN)1471-0307/issues)

Article

ՏԱՐԲԵՐ ԴԵՂԱԲՈՒՅԱԵՐԻ ԼՈՒՇԱՄՉՎԱԾՔՆԵՐԻ ԱՉԴԵՑՈՒԹՅՈՒՆԸ ԿԱԹՆԱՄԹԵՐՔԻ ՄԵՐԱՆՆԵՐԻ ԹԹՎՈՒՊԱՑՄԱՆ ԵՎ ՀԱԿԱԲԱԿՏԵՐԻԱԿԱՆ ԱԿՏԻՎՈՒԹՅԱՆ ՎՐԱ

Սաթենիկ Հանիսյան, Ինգա Բազուկյան

ԵՊՀ ՈՒԳԸ գիտական հոդվածների ժողովածու 2015 90-98

<http://www.y-su.am/sss/hy>

Article

ISOLATION OF LACTIC ACID BACTERIA WITH BROAD-RANGE ANTIMICROBIAL AND PROTEOLYTIC ACTIVITY FROM ARMENIAN TRADITIONAL DAIRY PRODUCTS

Yeter Simonyan, Andranik Keryan, Inga Bazukyan

ԵՊՀ ՈՒԳԸ գիտական հոդվածների ժողովածու 2015 37-42

<http://www.y-su.am/sss/hy>

Article

ԿԱԹՆԱԹԹՎԱՅԻՆ ԲԱԿՏԵՐԻԱԼՆԵՐԻ ՊՐՈԲԻՈՏԻԿ ՀԱՏՎՈՒԹՅՈՒՆՆԵՐԻ ՈՒՍՈՒՄՆԱՍԻՐՈՒԹՅՈՒՆԸ

Արշալույս Վերոյան, Ինգա Բազուկյան

ԵՊՀ ՈՒԳԸ գիտական հոդվածների ժողովածու 2015 26-32

<http://www.y-su.am/sss/hy>

Article

АНТИМИКРОБНАЯ АКТИВНОСТЬ ХИТОЗАНОВЫХ ПЛЕНОК, МОДИФИЦИРОВАННЫХ ПИРАЗОЛ КАРБОНОВЫМИ КИСЛОТАМИ

Ա.Յ. Այոպյան, Ա.Ա. Մարգարյան, Օ.Ս. Ատարյան, Դ.Վ. Ասրատյան, Ի.Լ. Բազուկյան, Օ.Ա. Սանոսյան, Ա.Ա. Թրչունյան

Հայաստանի կենսաբանական հանդես 2015 45-49

Article

Inhibition of Growth and Antimicrobial Activity of New Lactobacilli Strains Isolated From Armenian Dairy Product Matsoun with EDTA in Low Concentrations: Comparative Study with Gram-Positive and Gram-Negative Bacteria

A.G. Keryan, Y.A. Simonyan, I.L. Bazukyan, A.H. Trchounian

ՀՀ ԳԱԱ զեկոլոյցներ 2014 149-155

<http://www.flib.sci.am/eng/Reports/Frame.html>

Article

Phenotypic characteristics of the new lactobacilli strain isolated from matsoun, the Armenian traditional sour-milk product

A.G. Keryan, I.L. Bazukya, Yu.G. Popov, A.H. Trchounian

Գիտաբժշկական հանդես 2014 18-23

<http://nih.am/journal/>

Article

Բուհական կրթական համակարգում լաբորատոր աշխատանքների իրականացման ժամանակակից մոտեցումները:

Հ.Հ. Փանոսյան, Ի.Լ. Բազուկյան, Ա.Ա. Մարգարյան, Յու.Գ. Պոպով, Ա.Հ. Թռչունյան

Բնագետ 2014 145-146

<http://www.ysu.am/bnaget>

Article

Synthesis of amphiphilic, chalcogen-based redox modulators with in vitro cytotoxic activity against cancer cells, macrophages and microbes

Peng Du, Uma M. Visvanathan, Khairan Khairan, Tomislav Buric, Nathaniel E. B. Saidu, Zhanjie Xu,

Benjamin Hanf, Inga Bazukyan, Armen Trchounian, Frank Hannemann, Ingolf Bernhardt,

Torsten Burkholz, Britta Diesel, Alexandra K. Kiemer, Karl-Herbert Schafer, Mathias Montenarh,

Gilbert Kirsch, Claus Jacob

Medicinal Chemical Communications 2014 25-31

<http://www.rsc.org/journals-books-databases/about-journals/medchemcomm>

Manual

Մանրէաբանության լաբորատոր աշխատանքներ, ուսումնամեթոդական ձեռնարկ

Թռչունյան Ա.Հ., Փանոսյան Հ.Հ., Բազուկյան Ի.Լ., Մարգարյան Ա.Ա., Պոպով Յու.Գ.

2014 316

Article

Կաթնաթթվային բակտերիաները` XXI դարի բուժարարներ

Ինգա Բազուկյան, Արմեն Թռչունյան, Լուսինե Մաթևոսյան

Գիտության աշխարհում 2013 44-48

<http://www.ga.isec.am>

Article

Some properties of antibacterial component of lactic acid bacteria isolated from Armenian dairy products

I.L. Bazukyan, A.M. Babayan, A. Trchounian

Electronic Journal of Natural Sciences of NAS RA 2013 38-43

Article

The large scale antibacterial, antifungal anti-phage efficiency of Petamcin-A: new multicomponent preparation for skin diseases treatment

Mikayel Ginovyan, Andranik Keryan, Inga Bazukyan, Petros Ghazaryan, Armen Trchounian

Annals of Clinical Microbiology and Antimicrobials 2012 2-7

<https://ann-clinmicrob.biomedcentral.com/>

Article

Potential use of lactic acid bacteria for reduction of allergenicity and for longer conservation of fermented foods

Inga Bazukyan, Yuri G. Popov, Shady El-Ghaish, Aynur Ahmadova, Imen Hadji- Sfaxi,

Kamel Eddine El Mecherfi, Yvan Choiset, Hanitra Rabesona, Mahmoud Sitohy, Akif A. Kuliev,

Fernanda Mozzi, Jean-Marc Chobert, Thomas Haertle

Trends in Food Science & Technology 2011 1-8

<http://www.journals.elsevier.com/trends-in-food-science-and-technology>

Article

Properties and Survival Under Simulated Gastrointestinal Conditions of Lactic Acid Bacteria Isolated from Armenian Cheeses and Matsuns

I. Bazukyan, I. Movsesyan, N. Ahabekyan, R. Madoyan, Y. Popov, M. Dalgalarrrondo, J. Chobert, T. Haertlé

Biotechnology & Biotechnological Equipment 2010 444-449

<http://www.tandfonline.com/loi/tbeq20#.V4SWt0t97cc>

Article

Catalytic Properties of Rhodotorula aurantiaca KM-1 Phenylalanine Ammonia-Lyase

I.L. Bazukyan, A.A. Hambardzumyan, P.V. Tozalakyan, Yu.G. Popov, A.E. Vardanyan

Applied Biochemistry and Microbiology 2009 17-21

<http://www.springer.com/life+sciences/biochemistry+%26+biophysics/journal/10438>

Article

Study of antibacterial activity of lactic acid bacteria isolated from different regions of Armenia

I.L. Bazukyan, A.S. Hakobyan

Electronic Journal of Natural Sciences of NAS RA 2008 18-21

<http://ejns.sci.am>

Article

Method of the simultaneous determination of L-phenylalanine and L-tyrosine by means phenylalanine - ammonia-lyase from Rhodotorula aurantiaca KM-1

I.L. Bazukyan, A.A. Hambardzumyan, S.A. Andreasyan, Yu.G. Popov

Biological Journal of Armenia 2008 167-174

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

Article

Possibilities of application of Rhodotorula aurantiaca KM-1 phenylalanine – ammonia-lyase in L-phenylalanine synthesis from trans-cinnamic acid

I.L. Bazukyan

Electronic Journal of Natural Sciences of NAS RA 2007 6-9

Article

Выделение и изучение свойств молочнокислых бактерий из заквасок мацуна различных регионов Армении

ПАНОСЯН О.А., Базукян И.Л., Акопян А.С.

Proceedings of the YSU B: Chemical and Biological Sciences 2006 149-152

<http://ysu.am/science/en/1465212714>

Article

Phenylalanine - Ammonia-Lyase of *Rhodotorula Aurantiaca*: Purification and Primary Characteristics

I.L. Bazukyan, A.A. Hambardzumyan, A.E. Vardanyan

Biocatalysis and Biocatalytic Technologies 2006 9-21

Article

L-Ֆենիլալանինի սինթեզը բուսական ֆենիլալանին-ամոնիակ-լիազի (ՖԱԼ) կիրառմամբ Հովիկ Փանոսյան, Ինգա Բազուկյան, Ռուզաննա Չաքարյան

Երիտասարդ գիտնականների հոդվածների ժողովածու. Բնական գիտություններ 2000 70-73

<http://publishing.ysu.am/hy/1467361089>

Conference

Antifungal activity of *Lactobacillus rhamnosus* R-2002 isolated from Armenian dairy products: antifungal component, its probable nature and purification.

Lusine A. Matevosyan, Inga L. Bazukyan

Conference

Study of host-microbial interaction of lactic acid bacteria.

Grigoryan S., Bazukyan I., Grigoryan R., Sarkisyan N., Trchounian A.

Conference

Antifungal activity of *Lactobacillus ramnosus* R2002 isolated from Armenian dairy products: Antifungal component, its probable and purification

Lusine A. Matevosyan, Inga L. Bazukyan, Armen Trchounian

Conference

Controlled and uncontrolled pH as a tool to control the biological activity of two new lactobacilli strains isolated from Armenian dairy product matsoun

A. Keryan, I. Bazukyan, A. Trchounian

Conference

New lactic acid bacteria strains isolated from Armenian traditional dairy products with great potential for dairy production

Y. Simonyan, A. Keryan, I. Bazukyan, A. Trchounian

Conference

Antibiotic resistant bacteria inhabiting Lake Sevan (ARmenia)

Hovik Panosyan, Armine Margarayn, Inga Bazukyan, Ekaterine Jaiani, Ekaterine Gabashvili,

Marina Tediashvili

Conference

Antibiotic resistant environmental bacilli and their bacteriophages isolated from freshwater and marine environments of Georgia and Armenia

Ekaterine Gabashvili, Nino Janelidze, Elene Didebulidze, Hovik Panosyan, Armine Margaryan, Inga Bazukyan, George Tsertsvadze, Marina Tediashvili, Ekaterine Jaiani

Conference

Антиоксидантная активность молочнокислых бактерий выделенных из заквашиваемых пищевых продуктов Армении

Базукян И.Л.

Conference

The large scale antimicrobial efficiency of a new multicomponent preparation for skin diseases treatment

M. Ginovyan, P. Ghazaryan, I. Bazukyan, A. Trchounian

Conference

СИНТЕЗ И БИОЛОГИЧЕСКАЯ АКТИВНОСТЬ НЕКОТОРЫХ ПРОИЗВОДНЫХ 1,2,4- И 1,2,3-ТРИАЗОЛОВ

А.С. Галстян, Т.В. Кочикян, И.Л. Базукян, С.М. Бадалян, Т.А. Шахбазян

Conference

GUT microbiota and probiotics: In vitro and in vivo hydrophobicity and adhesion of lactic acid bacteria

I. Bazukyan, T. Aleksanyan, A. Trchounian

Conference

The effect of different types of irradiation on the lactic acid bacteria isolated from Armenian dairy products

Inga L. Bazukyan

Conference

Antibiotic Resistance of Bacteria: Novel Findings on Antimicrobial Agents and Activation of Resistance Genes

I. Bazukyan, D. Soghomonyan, A. Margaryan, N. Sahakyan, M. Petrosyan, A. Trchounian

Conference

New lactic acid bacteria isolated from Armenian honeybee's gastrointestinal tract

Bazukyan I., Petrosyan A., Sarukhanyan A., Trchounian A.

Conference

EFFECT OF CA AND MG IONS ON ANTIMICROBIAL ACTIVITY OF LACTIC ACID BACTERIA COMMUNITIES

I. Bazukyan, A. Trchounian, L. Matevosyan

Conference

Effects of Different Metal Ions and Vitamins on Antibacteriophage Activity of Lactic Acid Bacteria

I. Bazukyan

Conference

A carbon source dependence of the antibacterial activity of lactic acid bacteria isolated from the intestinal tract of Armenian honeybees

I. Bazukyan, A. Arshakyan, A. Trchounian

Conference

Estimation of the effects of Ca and Mg ions on antifungal activity of lactic acid bacteria associations

I. Bazukyan, L. Matevosyan, A. Trchounian

Conference

Electrophoretic mobility of lactic acid bacteria

I.L. Bazukyan, A.K. Vardanyan, A.H. Trchounian

Conference

Antibacterial and cytotoxic effects of biological liquids of Armenian scorpions.

I. Bazukyan, S. Hakobyan, T. Ghrejyan, G. Karagyan, M. Kalashian, A. Trchounian

Conference

Impact of different doses of ultrashort pulsed electron beam irradiation on biological properties of lactic acid bacteria isolated from Armenian dairy product

I. Bazukyan, L. Matevosyan, A. Rostomyan, H. Davtyan, B. Grigoryan, G. Tsakanova

Conference

BIOLOGICAL ACTIVITY OF ARMENIAN HONEY BEES' VENOM AND LACTIC ACID BACTERIA ISOLATED FROM HONEYBEES' GUT

Anahit Sahakyan, Nelli Vardazaryan, Mery Qocharyan, Nikolay Avtandilyan, Inessa Semerjyan,

Inga Bazukyan

Conference

METAGENOMIC STUDY OF "BIENO SIRENE" CHEESE FROM NORTH MACEDONIA

SVETOSLAV G. DIMOV, SLAVICA JOSIFOVSKA, VILMA POSHEVA, VESSELIN V. DOYTCHINOV,

INGA BAZUKYAN, KONSTANTINOS PAPADIMITRIOU, VELITCHKA GOTCHEVA

Conference

ANTAGONISTIC ACTIVITY OF LACTIC ACID BACTERIA ISOLATED FROM VAGINAL MICROBIOME OF ARMENIAN DIFFERENT ETHNIC GROUPS AGAINST CLINICAL CANDIDA SPECIES

Bazukyan I., Aleksanyan T., Hakobyan L., Nahapetyan N., Gharibyan E.

Conference

Developing Soft Skills in the Path of Integration of Immunology and Vaccinology Course in the Yerevan State University Curricula

L. Niazyan, A. Grigoryan, H. Panosyan, I. Bazukyan, A. Hovhannisyan, T. Abgaryan, Z. Aleksanyan,

K. Sargsyan, A. Karapetyan
