

# Meri Karen Iskandaryan

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## Research Institute of Biology

Օրգանական թափոնների կենսաքիմիական փոխակերպման և  
մանրէաբանական արտադրության խումբ  
Junior Researcher

## Education

Institution	Yerevan State University
Faculty	Biology / Biochemistry, Microbiology and Biotechnology
Date	2021 - 2024
Degree name	PhD student

Institution	Yerevan State University
Faculty	Biology / Biochemistry, Microbiology and Biotechnology
Date	2019 - 2021
Degree name	Masters

Institution	Yerevan State University
Faculty	Biology / Biochemistry, Microbiology and Biotechnology
Date	2015 - 2019
Degree name	Bachelor

## Language skills

Հայերեն Русский English

## Work experience

Institution	Yerevan State University
Period of time	2023 till now
Rank/degree	Junior researcher

## Publications

Article

**Development of an H<sub>2</sub> fuel cell electrochemical system powered by Escherichia coli cells**  
Torgom Seferyan, Lusine Baghdasaryan, Meri Iskandaryan, Karen Trchounian, Anna Poladyan  
Electrochemistry Communications 2024 107746

Article

**L-amino acids affect the hydrogenase activity and growth of Ralstonia eutropha H16**

Meri Iskandaryan, Syuzanna Blbulyan, Mayramik Sahakyan, Anait Vassilian, Karen Trchounian,

Anna Poladyan

AMB Express 2023 33

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*Article*

**Valorization of whey-based side streams for microbial biomass, molecular hydrogen, and hydrogenase production**

Anna Poladyan, Karen Trchounian, Ela Minasyan, Meri Iskandaryan, Hayarpi Aghekyan, Sargis Aghayan, Avetis Tsaturyan, Ani Paloyan, Garabed Antranikian, Lev Khoyetsyan

Applied Microbiology and Biotechnology 2023 4683–4696

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*Article*

**THE ROLE OF GLYCINE-BETAINE IN THE GROWTH AND HYDROGENASES ACTIVITY OF RALSTONIA EUTROPHA H16**

Meri K. Iskandaryan

Proceedings of the YSU B: Chemical and Biological Sciences 2023 154-163

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*Article*

**THE ROLE OF THIOL GROUPS IN THE EXPRESSION OF THE ACTIVITY OF ARGINASE I AND II ISOENZYMES**

M. K. ISKANDARYAN, E. Kh. BARSEGHYAN

Proceedings of the YSU B: Chemical and Biological Sciences 2021 248-254

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*Conference*

**The valorization of whey-based side-streams for microbial biomass, hydrogen and hydrogenase enzyme production**

Anna Poladyan, Hayarpi Aghekyan, Ella Minasyan, Karen Trchounian, Ani Paloyan, Sargis Aghayan, Garabed Antranikian, Meri Iskandaryan, Diana Ghevondyan

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*Conference*

**Characteristic effects of gold nanoparticles on growth and H<sub>2</sub> metabolism of Ralstonia eutropha H16 and Escherichia coli**

Anna Poladyan, Tatev Manutsyan, Meri Iskandaryan, Syuzanna Blbulyan, Anait Vassilian,

Tatiana Semashko

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*Conference*

**The role of glycine-betaine in the hydrogen metabolism of Ralstonia eutropha H16**

Meri Iskandaryan, Liana Mnatsakanyan, Anna Poladyan

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*Conference*

**A NOVEL COST-EFFECTIVE APPROACH FOR PRODUCTION OF HYDROGENASE ENZYMES AND MOLECULAR HYDROGEN FROM WHEY-BASED BY-PRODUCTS**

Anna Poladyan, Meri Iskandaryan, Ofelya Karapetyan, Ela Minasyan, Anait Vassilian, Karen Trchounian,

Garabed Antranikian

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*Conference*

**The impact of oxygen-tolerant hydrogenases on cell energetics of Cupriavidus necator H16**

Meri Iskandaryan, Anna Poladyan

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*Conference*

**Evaluation of an H<sub>2</sub> fuel cell electrochemical system powered by microbial cells**

M. Iskandaryan, A. Poladyan, L. Baghdasaryan, T. Seferyan

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*Conference*

**Effect of glycine on the heterotrophic growth and [NiFe]-hydrogenase activity of *Cupriavidus necator* H16**

M. Iskandaryan, J. Schoknecht, O. Lenz, A. Poladyan

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