

# Hripsime Hovik Petrosyan

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## Research Institute of Biology

Laboratory of Microbiology, Bioenergetics and Biotechnology

Junior Researcher

## Education

<b>Institution</b>	National Institute of Health
<b>Faculty</b>	Microbiology
<b>Date</b>	2021 - 2022
<b>Degree name</b>	Qualified specialist

<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Biology
<b>Date</b>	2019 - 2021
<b>Degree name</b>	Masters

<b>Institution</b>	Yerevan State University
<b>Faculty</b>	Biology
<b>Date</b>	2015 - 2019
<b>Degree name</b>	Bachelor

## Language skills

Русский English Deutsch

## Work experience

<b>Institution</b>	Yerevan State University
<b>Period of time</b>	2021 till now
<b>Rank/degree</b>	Junior Scientific Researcher

## Scientific interests

- Microbiology, Biochemistry, Biotechnology

## Publications

Article

**Conversion of spent coffee grounds into bioenergy and biomass using Clostridium species: A**

**sustainable pathway for renewable energy**

Rima Avetisyan, Hripsime Petrosyan, Akerke Toleugazykyzy, Bakytzhan Bolkenov, Roza Bekbayeva,  
Kairat Bekbayev, Karen Trchounian, Anna Poladyan  
Industrial Crops and Products 2025 122068

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*Article*

**Growth characteristics, redox potential changes and proton motive force generation in *Thermus scotoductus* K1 during growth on various carbon sources**

Hripsime Petrosyan, Karen Trchounian  
AIMS Microbiology 2024 1052-1067

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*Article*

**Defining the roles of the hydrogenase 3 and 4 subunits in hydrogen production during glucose fermentation: A new model of a H<sub>2</sub>-producing hydrogenase complex**

Hripsime Petrosyan, Liana Vanyan, Armen Trchounian, Karen Trchounian  
International Journal of Hydrogen Energy 2020 5192-5201

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*Article*

**Roasted coffee wastes as a substrate for *Escherichia coli* to grow and produce hydrogen**

Hripsime Petrosyan, Liana Vanyan, Satenik Mirzoyan, Armen Trchounian, Karen Trchounian  
FEMS Microbiology Letters 2020 fnaa088 ,7ԷԶ

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*Conference*

**The Role of *Escherichia coli* FOF1 -ATPase and Hydrogenases on Specific Growth Rate During Glucose Fermentation**

Karen Trchounian, Hripsime Petrosyan, Liana Vanyan, Armen Trchounian, Anait Vassilian

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*Conference*

**ՕՐԳԱՆԱԿԱՆ ԹԱՓՈՆՆԵՐԻՑ ԿԵՆՍԱԶԱՆԳՎԱԾԻ ԵՎ ԿԵՆՍԱԷՆԵՐԳԻԱՅԻ ՓՈԽԱԿԵՐՊՄԱՆ ԿԵՆՍԱՔԻՄԻԱԿԱՆ ՈՒՂԻՆԵՐԻ ԲՆՈՒԹԱԳՐՈՒՄԸ ԵՎ ՕՔՍԻԴԱԿԵՐԱԿԱՆԳՈՂԱԿԱՆ ԿԱՐԳԱՎՈՐՈՒՄԸ**  
Փոլադյան Ա.Ա., Գևորգյան Հ.Խ., Վանյան Լ.Մ., Բաբայան Ա.Ռ., Բաղդասարյան Լ.Հ., Վասիլյան Ա.Վ.,

Պետրոսյան Հ.Հ.

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