Liana Manvel Vanyan

Research Institute of Biology
Laboratory of Microbiology, Bioenergetics and Biotechnology
Junior Researcher

37494535101
liana.vanyan@ysu.am

Education

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

Institution	Yerevan State University
Faculty	Biology
Date	2019 - 2021
Degree name	Masters

Institution	Yerevan State University
Faculty	Biology
Date	2015 - 2019
Degree name	Bachelor

Language skills

Հայերեն Русский English

Work experience

Institution	Research Institute of Biology
Period of time	2021 till now
Rank/degree	Junior researcher

Institution	Research Institute of Biology
Period of time	2019 - 2021
Rank/degree	Laboratory assistant

Publications

Article
Evidence for bidirectional formic acid translocation in vivo via the Escherichia coli formate channel FocA

Liana Vanyan, Michelle Kammel, R Gary Sawers, Karen Trchounian

Archives of Biochemistry and Biophysics 2024 109877

Article

PROTON AND POTASSIUM FLUXES IN ESCHERICHIA COLI MUTANTS WITH DEFECTS IN SUBUNITS RESPONSIBLE FOR MATURATION OF HYD-1 AND HYD-2 DURING GLUCOSE FERMENTATION

L.M. Vanyan

Proceedings of the YSU B: Chemical and Biological Sciences 2024 54-67

Article

HyfF subunit of hydrogenase 4 is crucial for regulating FOF1 dependent proton/potassium fluxes during fermentation of various concentrations of glucose

Liana Vanyan, Karen Trchounian

Journal of Bioenergetics and Biomembranes 2022 69-79

Article

Biogas and Biohydrogen Production Using Spent Coffee Grounds and Alcohol Production Waste

Liana Vanyan, Adam Cenian, Karen Trchounian

Energies 2022 5935

Article

Coffee silverskin as a substrate for biobased production of biomass and hydrogen by Escherichia coli

Satenik Mirzoyan, Hayarpi Aghekyan, Liana Vanyan, Anait Vassilian, Karen Trchounian

International Journal of Energy Research 2022 23110-23121

Article

INDUSTRIAL WASTE-BASED HYDROGEN PRODUCTION TECHNOLOGY: THE PROFITABILITY FOR INDUSTRIAL WASTE GENERATORS

Liana Vanyan, Heghine Gevorgyan, Hripsime Petrosyan, Armen Trchounian, Karen Trchounian

ՎԵՐԱԿԱՆԳՆՎՈՂ ԵՎ ՄԱՔՈՒՐ ԷՆԵՐԳԻԱՅԻ 7-ՐԴ ՄԻՋԱԶԳԱՅԻՆ ՀԱՄԱԺՈՂՈՎԻ ՆՅՈՒԹԵՐ 2021 56-59

Article

Defining the roles of the hydrogenase 3 and 4 subunits in hydrogen production during glucose fermentation: A new model of a H2-producing hydrogenase complex

Hripsime Petrosyan, Liana Vanyan, Armen Trchounian, Karen Trchounian

International Journal of Hydrogen Energy 2020 5192-5201

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 ,7Էջ

Conference

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

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

---

Conference

Interaction between Escherichia coli Hydrogenase-4 and FOF1- ATPase for proton translocation during fermentation of various glucose concentrations at slightly alkaline pH.
LIANA VANYAN, ARMEN TRCHOUNIAN, KAREN TRCHOUNIAN

Conference

Anaerobic Utilization of Spent Coffee Grounds (SCG) by E. Coli: the Importance of Pretreatment to Optimize Hydrogen and Biomass Generation
L. Vanyan, H. Aghekyan, K. Trchounian

Conference

NOVEL APPLICATION FOR ROASTED COFFEE WASTES AS A SUBSTRATE FOR DEVELOPMENT OF BIOFERTILIZERS
Liana Vanyan Manvel

Conference

Proton/potassium Fluxes Depend on GlucoseConcentration in E. coli at pH 7.5
Liana Vanyan, Anait Vassilian, Karen Trchounian

Conference

Is FHL Complex Responsible for SensingGlucose Concentration?
Liana Vanyan, Anait Vassilian, Karen Trchounian

Conference

Biohydrogen Production from Roasted Coffee Waste: Understanding the Role of E. coli Hydrogenases During Fermentation
S. Mirzoyan, L. Vanyan, H. Aghekyan, A. Poladyan, K. Trchounian

---

Conference

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

Conference

BIOTECHNOLOGICAL POTENTIAL OF SPENT COFFEE GROUNDS FOR LARGE-SCALE HYDROGEN PRODUCTION
Liana Vanyan, Anait Vassilian, Anna Poladyan, Karen Trchounian

---

Conference

THE ROLE OF E. COLI HYDROGENASE-1 IN PROTON FLUX DURING GLUCOSE UTILIZATION AT PH 7.5
Liana Vanyan, Karen Trchounian

Conference

Understanding the Role of Escherichia coli Hydrogenase-2 subunits in proton flux under different glucose concentrations
Liana Vanyan, Anait Vassilian, Anna Poladyan, Karen Trchounian

---

Conference

The effect of entire deletion of Hydrogenase-1 and 2 on proton flux during utilization of varied glucose concentration at pH 7.5

L. Vanyan, K. Trchounian

Conference

The role of the CRP global regulator in proton flux of Escherichia coli under different glucose concentrations

Liana Vanyan, Lilit Grigoryan, Karen Trchounian
