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ABOUT ME

I am fascinated about how cells find ways to adapt to the most stressful conditions.

WORK EXPERIENCE

MAY 2017 – CURRENT Bucharest, Romania

SCIENTIFIC RESEARCHER II INSTITUTUL DE BIOLOGIE SI PATOLOGIE CELULARA "NICOLAE SIMIONESCU"

NOV 2014 – MAY 2017 Bucharest, Romania

RESEARCHER SC BIOTEHNOS SA

MAR 2010 – SEP 2014 New York, United States

POSTDOCTORAL RESEARCHER ICAHN SCHOOL OF MEDICINE AT MOUNT SINAI

JUL 2005 – JUN 2009 Utrecht, Netherlands

GRADUATE RESEARCHER UTRECHT UNIVERSITY

SEP 2002 – JUN 2005 Bucharest, Romania

BIOCHEMISTRY ENGINEER NATIONAL CHEMICAL-PHARMACEUTICAL RESEARCH AND DEVELOPMENT INSTITUTE

EDUCATION AND TRAINING

JUL 2005 – JUN 2009 Utrecht, Netherlands

PHD Utrecht University

OCT 2002 – JUN 2004 Bucharest, Romania

MSC University Politehnica of Bucharest

OCT 1997 – JUN 2002 Bucharest, Romania

BSC University Politehnica of Bucharest, Faculty of Industrial Chemistry

ADDITIONAL INFORMATION

PUBLICATIONS

Modulation of Unfolded Protein Response Restores Survival and Function of β -Cells Exposed to the Endocrine Disruptor Bisphenol A

– 2023

Daian LM, Tanko G, Vacaru AM, Ghila L, Chera S, Vacaru AM, Int. J. Mol. Sci. Jan 19;24(3):2023.

Treatment with Mesenchymal Stromal Cells Overexpressing Fas-Ligand Ameliorates Acute Graft-versus-Host Disease in Mice

– 2022

Vacaru AM, Mazilu AM, Dumitrescu M, Fenyó MI, Gafencu AV, Vacaru AM, IntJ MolSci. Jan 4;23(1):534

Short lifespan of syngeneic transplanted MSC is a consequence of in vivo apoptosis and immune cell recruitment in mice

- 2021

Preda MB, Neculachi CA, Fenyoi M, Vacaru AM, Publik MA, Simionescu M, Burlacu A, Cell Death Dis. 12(6):566

What is the sweetest UPR flavor for β -cell? That is the question. - 2021

Lenghel A, Gheorghita AM, Vacaru AM, Vacaru AM, Front in Endocrinol, 11:614123

K2 Transfection System Boosts the Adenoviral Transduction of Murine Mesenchymal Stromal Cells - 2021

Dumitrescu M, Vacaru AM, Trusca VG, Fenyoi IM, Ionita R, Gafencu AV, Int. J. Mol. Sci. 22, 598

A method for in vivo tracking of mesenchymal stromal cells after intrapancreatic delivery - 2021

Fenyoi IM, Vacaru AM, Burlacu A, Gafencu AV, Preda MB, Rom Biotechnol Lett, 26(3): 2707-2713

Enhanced Suppression of Immune Cells In Vitro by MSC Overexpressing FasL - 2020

Vacaru AM*, Dumitrescu M*, Vacaru AM, Fenyoi M, Gafencu A, Simionescu M, Int J Mol Sci Dec 31; 22(1):348

In vitro chondro-restitutive capacity of Alflutop proved on chondrocyte cultures - 2016

Olariu L, Pyatigorskaya N, Dumitriu B, Pavlov A, Vacaru AM, Vacaru A, Rom Biotech Lett, 22(6):12047-53

trappc11 is required for protein glycosylation in zebrafish and humans. - 2016

DeRossi C*, Vacaru A*, Rafiq R, Cinaroglu A, et al, Mol Biol Cell. Apr 15; 27(8):1220-34

Molecularly defined unfolded protein response subclasses have distinct correlations with fatty liver disease in zebrafish

- 2014

Vacaru AM, di Narzo AF, Howarth DL, et al, Dis Model Mech, Jul; 7(7):823-35

Activating transcription factor 6 is necessary and sufficient for alcoholic fatty liver disease in zebrafish

- 2014

Howarth DL, Lindtner C, Vacaru AM, Sachidanandam R, et al, Sadler KC, PLOS Genetics 10(5):e1004335

In vivo cell biology in zebrafish - providing insights into vertebrate development and disease - 2014

Vacaru AM, Unlu G, Spitzner M, Mione M, Knapik EW, Sadler KC, J. Cell Sci. 127(Pt 3):485-95

Sphingomyelin synthase-related protein SMSr is a suppressor of ceramide-induced mitochondrial apoptosis

- 2014

Tafesse FG, Vacaru AM, Bosma EF, et al, Holthuis JC, J. Cell Sci. 127(Pt 2):445-54

Ceramide phosphoethanolamine biosynthesis in Drosophila is mediated by a unique ethanolamine phosphotransferase in the Golgi lumen

- 2013

Paper of the week

Vacaru AM, van den Dickkenberg J, Ternes P, Holthuis JCM, J. Biol. Chemistry 288(16):11520-30

Ethanol metabolism and oxidative stress are required for unfolded protein response activation and steatosis in alcoholic liver disease

- 2013

Tsedensodnom O, Vacaru AM, Howarth DL, Yin C, Sadler KC, Dis Model Mech 6(5):1213-26

The Cx43-like Connexin Protein Cx40.8 Is Differentially Localized during Fin Ontogeny and Fin Regeneration

– 2012

Gerhart SV, Eble DM, et al, Vacaru A, Sadler KC, Jefferis R, Iovine MK, PLoS One. 7(2):e31364

Alcohol disrupts endoplasmic reticulum function and protein secretion in hepatocytes – 2012

Howarth DL*, Vacaru AM*, Tsedensodnom O*, et al, Snapp EL, Sadler KC, Alc Clin Exp Res. 36(1):14-23.

Sphingomyelin synthase-related protein SMSr controls ceramide homeostasis in the ER – 2009

Vacaru AM, Tafesse FG, Ternes P, Kondylis V, et al, Holthuis JCM, J. Cell Biol. 185:1013-1027

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