

CHRISTOS DOGRAMMATZIS

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Greece

EDUCATION

- PhD** University of Kansas, School of Medicine, USA Dec 2021
Department of Microbiology, Molecular Genetics, and Immunology
Dissertation: “Manipulating the Social Network During Viral Infections”
Advisor: Ass. Prof. Maria Kalamvoki
Skills and techniques: Cell culture, cloning, qPCR, Western blotting, protein production, viral infections, herpesviruses, coronaviruses, BSL3 work, innate immunity, Nanoparticle Tracking Analysis (NTA), exosome isolation, flow cytometry, scientific presentations, science writing
- BS** Aristotle University of Thessaloniki, School of Biology, Greece Oct 2015
Specialized in Molecular Biology and Genetics
Thesis: “Targeted inactivation of the *Cyld* gene using a CRISPR/Cas9 system”
Advisor: Prof. George Mosialos
Skills and techniques: Cell culture, cloning, PCR, Western blotting, CRISPR engineering, flow cytometry, scientific presentations

WORK EXPERIENCE

- Military service** March 2022-March 2023
424 Military Training Hospital, Thessaloniki (Greece)
- 12-month mandatory military service
 - 2 months basic training at the Medical Corps
 - 10 months at the Clinical Microbiology lab of the 424 Microbiology department
 - Carried out SARS-CoV-2 testing of clinical samples
 - Managed patient data and results
 - Responsible for night-shift functions of the microbiology lab
 - Worked and cooperated with both civilian and military staff

Research intern

Nov 2015-Jul 2016

Max Delbrueck Center for Molecular Medicine, Berlin (Germany)

Advisor: Dr. Ralf Kuehn

- Established multiplex genome editing using CRISPR/Cas9 in human induced pluripotent stem cell lines (hiPSCs), in order to develop cell lines as disease models.
- Investigated efficiency of homology-directed repair during genome editing in hiPSCs
- Cultured hiPSCs, mouse embryonic stem cells (mESCs), analyzed flow cytometry data

Research intern

Jul-Aug 2015

Center for Research and Technology Hellas, Thessaloniki (Greece)

Advisor: Dr. Antonios Makris

- Established genome editing in B-cell chronic lymphocytic leukemia cells, using a lentiviral-based CRISPR/Cas9 system

Research intern

Jul-Aug 2013

University of Zurich, Zurich (Switzerland)

Advisor: Dr. Urs Grueber

- Worked on human rhinovirus infection and replication mechanisms
- Assessed effects of perturbation on infection efficiency by using high-throughput fluorescence microscopy

Science news editor

Jan-Jul 2013

- Worked on is-universe.com, newsfilter.gr
- Written and edited science news articles about physics, astronomy, biology
- Communicated complex science to the general public

HONORS AND AWARDS

Remi Amelunxen Award

2021

Award for research accomplishments of predoctoral students

American Society for Virology Student Registration Award

2021

Award for support of conference attendance

American Society for Virology Student Travel Award (meeting canceled due to COVID-19 pandemic)	2020
Student Governing Council Travel Award Award for support of conference attendance	2020
Biomedical Research Training Program Scholar Pre-doctoral fellowship granted by the University of Kansas to applicants who are committed to pursuing external fellowships, USA	2020
Erasmus+ fellowship, European Commission Fellowship granted for 7 months to study and engage in research at the Max Delbrueck Center in Berlin, Germany	2015
BUSS Summer school, University of Zurich Funding for attending the Biology Undergraduate Summer School in the University of Zurich, Switzerland	2013
New student award, School of Biology Received award for entering the School of Biology with highest score in National Level Exams, Greece	2008

PUBLICATIONS

Dogrammatzis, C, Kalamvoki, M. Tracing the STING exocytosis pathway during HSV-1 infection (manuscript in preparation)

Dogrammatzis, C, Kalamvoki, M. Role of endosomal pathways during SARS-CoV-2 infection (manuscript in preparation)

Dogrammatzis, C, Saleh, S, Deighan, C, & Kalamvoki, M. Diverse Populations of Extracellular Vesicles with Opposite Functions during Herpes Simplex Virus 1 Infection. *Journal of Virology*. 2021;95(6), e02357-20 doi: 10.1128/JVI.02357-20

Dogrammatzis C, Waisner H, Kalamvoki M. “Non-Essential” Proteins of HSV-1 with Essential Roles In Vivo: A Comprehensive Review. *Viruses*. 2021; 13(1):17 doi: 10.3390/v13010017

Dogrammatzis, C, Waisner, H, & Kalamvoki, M. Cloaked Viruses and Viral Factors in Cutting Edge Exosome-Based Therapies. *Frontiers in cell and developmental biology*. 2020;8, 376. doi: 10.3389/fcell.2020.00376

Deschamps T, Waisner H, **Dogrammatzis C**, Roy A., Chacko S, Perera C, Prisinzano TE, Kalamvoki M. Discovery of small molecule inhibitors targeting the E3 ubiquitin ligase activity of the HSV-1 ICP0 protein using an in vitro high throughput screening assay. *Journal of Virology*. 2019;93(13): e00619-19. doi: 10.1128/JVI.00619-19.

Dogrammatzis C, Deschamps T, Kalamvoki M. Biogenesis of extracellular vesicles during herpes simplex virus type 1 infection: The role of the CD63 tetraspanin. Longnecker RM, ed. *Journal of Virology*. 2018;91(12): e01850-18. doi: 10.1128/JVI.01850-18.

Deschamps T, **Dogrammatzis C**, Mullick R, Kalamvoki M. Cbl E3 Ligase Mediates the Removal of Nectin-1 from the Surface of Herpes Simplex Virus 1-Infected Cells. Longnecker RM, ed. *Journal of Virology*. 2017;91(12): e00393-17. doi:10.1128/JVI.0039317.

CONFERENCES

Maria Kalamvoki, **Christos Dogrammatzis**, and Hope Waisner. The impact of HSV-1 infection on intercellular communication. American Society for Virology 40th Annual Meeting, online, July 2021

Christos Dogrammatzis, and Maria Kalamvoki. Tracing STING exocytosis during herpes simplex virus 1 infection. American Society for Virology 40th Annual Meeting, online, July 2021

Christos Dogrammatzis, and Maria Kalamvoki. Differential biogenesis and functions of extracellular vesicles during herpes simplex virus 1 infection. American Society for Virology 39th Annual Meeting, Fort Collins, Colorado, June 2020 (canceled due to COVID-19 pandemic)

Hunter Woosley, **Christos Dogrammatzis**, and Maria Kalamvoki. The role of the hepatocyte growth factor-regulated tyrosine kinase substrate (Hrs) on HSV-1 infection. 18th Annual Kansas-IDEA Network of Biomedical Research Excellence Symposium, Wichita, Kansas, January 2020

Thibaut Deschamps, Hope Waisner, **Christos Dogrammatzis**, Anuradha Roy, Shibin Chacko, Chamani Perera, Thomas E. Prisinzano, Maria Kalamvoki. Discovery of small molecule inhibitors targeting the E3 ubiquitin ligase activity of the HSV-1 ICP0 protein using an *in vitro* high throughput screening assay. IDeA Central Region Conference, Oklahoma City, June 2019

Christos Dogrammatzis and Maria Kalamvoki. Mechanism of biogenesis of extracellular vesicles during herpes simplex virus 1 infection. Meeting on Exosomes, Microvesicles, and Infectious Disease, Potomac, Maryland, June 2019

Christos Dogrammatzis and Maria Kalamvoki. Biogenesis of extracellular vesicles during Herpes Simplex Virus-1 infection. 6th Student Research Forum, University of Kansas, Kansas City, USA, April 2019

Thibaut Deschamps, **Christos Dogrammatzis**, Hope Waisner, Maria Kalamvoki. Intercellular Communication during Herpes Simplex Virus 1 Infection. 43rd Annual International Herpes Workshop, University of British Columbia, Vancouver, Canada, July 2018

Christos Dogrammatzis, Thibaut Deschamps, Hope Waisner, Maria Kalamvoki. The “Give and Take” Game During Herpes Simplex Virus Type 1 Infection: The Role Of The CD63 Tetraspanin. 2nd Annual Meeting on Extracellular Vesicles and Infection, Potomac, Maryland, June 2018

Christos Dogrammatzis, Pascal Roulin, Urs Greber. RNAi-mediated knockdown of the OSBP and its effect on HRV replication. 36th Science Conference, Greek Biology Sciences Company, Ioannina, Greece, May 2014

VOLUNTEERING/MENTORING

Sinochips Diagnostics 2020: Transcribed patient sample data in electronic form for COVID-19 testing

KU COVID testing: Helped with setting up COVID-19 testing at KU hospital

IGPBS recruitment events: Participated in hosting and interacting with prospective IGPBS students during IGPBS recruitment weekends

Rotation mentor:

- Supervised rotating undergraduate and graduate students during their training in the Kalamvoki lab. Taught them lab techniques and introduced them to different projects in the lab
- Supervised and trained new lab members in the 424 General Military Training Hospital Microbiology department. Worked with both civilian and military personnel