Abigail Pajulas apajulas@iu.edu

EDUCATION

Fall 2018 -present	Ph.D. Candidate in Microbiology and Immunology Indiana University, Purdue University – Indianapolis
Spring 2018	B.S. in Exercise Science - Honors California State University, Northridge (CSUN)

ACADEMIC HONORS & AWARDS

2019 – present T32 Predoctoral Fellowship Recipient, T32 AI060519 Immunology and			
T32 Predoctoral Fellowship Recipient, T32 AI060519 Immunology and			
Infectious Disease Training Program, IU School of Medicine			
Undergraduate Dean's List Honors, CSUN			
GPA >3.5 (4.0 scale) in 12 graded classes			
General Education Honors Program, CSUN			
NIH Maximizing Access to Research Careers (MARC) Fellowship			
Undergraduate Student Training in Academic Research (U-STAR), CSUN			
SACNAS - Travel Scholarship			
Society for Advancing Chicanos/Hispanics & Native Americans in Science. The			
scholarship included conference registration, round-trip flight, and lodging			
(approximately \$1,500).			
University of Colorado, Denver - Anschutz Medical Campus - Graduate			
Experiences for Multicultural Students			
The GEMS program, a highly competitive summer research program, provided a			
rigorous biomedical research training opportunity with close mentoring for 10			
weeks. The program also awarded scholars with a \$4,000 stipend.			
Presidential Scholarship Award			
This \$10,000 scholarship awarded undergraduate students the opportunity to			
work with faculty mentors on significant projects for one year. It is reserved for			
Cal State Northridge undergraduates who have earned at least 60 units with a			
3.5 GPA.			
Promising Sophomore Award - Asian-American Studies, CSUN			
Associated Students Scholarship, CSUN			
Awarded \$2,000 to students with >3.5 GPA, a statement of purpose and 2 letters			
of recommendations.			

ACADEMIC APPOINTMENTS 2019-present Graduate P

2019-present	Graduate Research Assistant
	Department of Microbiology and Immunology – IUPUI, Mark Kaplan Ph.D
	Investigated the role of T helper 9 cell-mediated mast cell expansion and
	function in immediate hypersensitivity reactions.
Fall 2018	Graduate Research Assistant
	Department of Microbiology and Immunology – IUPUI, Haitao Guo, Ph.D.
	Investigated the role of Hepatitis B virus precore and core protein's effects on
	cccDNA stability and/or transcription.

Fall 2018	Graduate Research Assistant Department of Microbiology and Immunology – IUPUI, Frank Yang, Ph.D. Screened for phenotypical and transcriptional mutations from a transposon mutant library to find important sites for OspC expression in Borrelia burgdoerferi.
2017 - 2018	Undergraduate Research Assistant- MARC U-STAR Scholar
	Department of Microbiology – CSU Northridge, Sean Murray, Ph.D.
	Investigated the role of PhaA, PhaB, and PhaC in promoting (p)ppGpp
	accumulation in Caulobacter crescentus
Summer 2017	Undergraduate Research Assistant – GEMS Intern
	Department of Microbiology – UC Denver, Stefan Pukatzki, Ph.D.
	Examined the role of toxin-coregulated pilus on <i>Vibrio cholerae</i> and its effects on type VI secretion system by using killing assays with <i>Escherichia coli</i> .
2016 - 2018	Undergraduate Research Assistant, Center of Achievements – Brown Center,
2010 - 2010	Department of Kinesiology – CSU Northirdge, Taeyou Jung, Ph.D.
	Analyzed Brain Activity using fNIR During Dual Task Walking in Individuals
	with Parkinson's Disease
Fall 2016	Undergraduate Teacher's Assistant
	Introduction to Gerontology, Department of Psychology – CSUN
2016 - 2018	Undergraduate Research Assistant & Lab Coordinator
	Department of Psychology – CSU Northridge, Luciana Laganá, Ph.D.
	Assessed the impact of anti-bias films on reducing stereotypes and increasing
	empathy towards discriminated minorities
DUDUICATIONS	

PUBLICATIONS

* Principal Investigator

- Ulrich BJ, Kharwadkar R, Chu M, **Pajulas A**, Muralidharan C, Koh B, Fu Y, Gao H, Hayes TA, Goplen NP, Nelson AS, Liu Y, Linnemann A, Licona-Limón P, Flavell RA, Jenkins MK, Sun J, and Kaplan MH.* IL-9 is required for multi-cytokine producing tissue-resident memory CD4+ T cell-dependent allergic airway recall responses. *Manuscript in preparation to be submitted to Science Immunology.*
- Fu Y, Wang J, Zhou B, Gao H, Zhou H, Fisher AJ, Omstead D, Khan S, Han L, **Pajulas A**, Renauld JC, Paczesny S, Liu Y, Yang L, Tighe RM, Licona-Limón P, Flavell RA, Takatsuka S, Kitamura D, Sun J, Bilgicer B, Sears CR, Yang K, Kaplan MH.* Pulmonary interstitial macrophages are required to mediate the pro-tumorigenic effects of IL-9. *Manuscript in preparation to be submitted to Journal of Clinical Investigation*.
- Fu Y, Wang J, Zhou B, Gao H, Ramdas B, Koh B, Ulrich BJ, Yang S, **Pajulas A**, Kapur R, Renauld JC, Paczesny S, Liu Y, Tighe RM, Licona-Limon P, Flavell RA, Takatsuka S, Kitamura D, Tepper RS, Sun J, Kaplan MH.* An IL-9-pulmonary macrophage axis defines the allergic lung inflammatory environment. *Manuscript in preparation to be submitted to Science Immunology*.

Wang J, **Pajulas A**, Fu Y, Adom J, Zhang W, Nelson AS, Kaplan MH* . T cell-mediated wound healing is diminished by allergic skin inflammation. *Manuscript in preparation to be submitted to Journal of Investigative Dermatology*.

PRESENTATIONS

* Principal Investigator _ Presenter

- <u>Pajulas, A.</u> and Kaplan, M. (2021, May). *Generation of mice with a conditional II9 allele*. Poster accepted for presentation at American Association of Immunologist Annual Meeting, Virtual Conference.
- <u>Pajulas, A.</u> and Kaplan, M. (2020, October). *Elucidating the Role of IL-9 Secreting CD4+ T Helper Cells in Promoting Mast Cell Expansion in Pulmonary Models of Inflammation*. Poster accepted for oral presentation at SACNAS Conference, Virtual Conference.
- **Pajulas, A.** and Kaplan, M. (2019, May). The role of IL-9 secreting CD4+ T helper cells in promoting mast cell expansion in pulmonary models of inflammation. Poster accepted for presentation at the American Association of Immunologist Annual Meeting, Honolulu, HI. Meeting cancelled due to COVID-19.
- Pajulas, A., Rocha, A., Stott, K., Bueno, D., Schreiner, S., Arvizu, I., Vu, S., and Murray, S. (2018, March). Identification of genes essential for PHB Biosynthesis in *Caulobacter crescentus*. Poster accepted for presentation at the Annual Bay Area Microbial Pathogenesis Symposium, San Francisco, CA.
- <u>Pajulas, A.,</u> Anderegg, A., and Pukatzki, S. (2017, October). Bacterial Competition: Difference in the translocation of effector proteins from *Vibrio cholerae* to *Escherichia coli*. Poster accepted for presentation at the Society for Advancement of Chicanos and Native Americans in Science, Salt Lake City, UT.

PROFESSIONAL APPOINTMENTS

2021-2022 President, Communicators at IUPUI (Toastmasters International)

- 2020-2021 VP of Education (Awarded President's Distinguished Club)
- 2019-2020 VP of Public Relations (Awarded President's Distinguished Club)

2021 - 2022 President, SACNAS at IU School of Medicine

- 2020-2021 Vice President
- 2019-2020 President

STUDENT MENTORING

Spring 2021 Matthew Austin – MD/PhD student Summer 2020 Jeffrey Bloodworth – PhD student