JAGIENKA TIMEK

Pho jtim	Phone: (616) 516-9918909 Plymejtimek@umich.eduGrand Rapid		uth Ave SE , Michigan
EDUCAT	ION		
BS	BS University of Michigan. College of Literature, Sciences, and the Arts (LSA)		
	Biology (MCDB) Honors, Music Graduated Magna Cum Laude, GPA: 3.861 Minor: Spanish Language, Literature, and Culture	N	lay 2022
Honors	AND AWARDS		
Fulb Plan Medi <u>Proje</u> Bloo	right US Student Program Finalist; Fulbright-Austrian Mar Foundation Award in Science and Technology zinische Universität Wien; Vienna, Austria <u>ect Title:</u> Immune Response of Spider Silk Components in Periph d Mononuclear Cells In Vitro	shall 2 neral	2023-2024
Fulb Medi <u>Proje</u> Bloo	right US Student Program Semi-Finalist zinische Universität Wien; Vienna, Austria <u>ct Title:</u> Immune Response of Spider Silk Components in Periph d Mononuclear Cells In Vitro	neral	2023
DAA Medi <u>Proje</u> Hum	D One Year Grant for Doctoral Students zinische Hochschule, Hannover; Hannover, Germany <u>ct Title:</u> Tissue Engineering of MHC I Expression for Immune C an Skin Allografts	20 Compatible	22-2023
Prog Outst	ram in Biology Director's Award anding academic coursework and original independent research		2022
Sigm Outst	a Alpha Iota Ruby Sword of Honor tanding service in Southeast Michigan Province		2022
Fulb Medi <u>Proje</u> Hum	right US Student Program Semi-Finalist zinische Hochschule, Hannover; Hannover, Germany <u>et Title:</u> Tissue Engineering of MHC I Expression for Immune C an Skin Allografts	Compatible	2021
Hon Unde	ors Summer Fellowship ergraduate summer research opportunity funded by LSA Honors	Program	2021
Und	erwood-Alger Scholarship		2021

	Undergraduate Research Opportunities Program (UROP) Biomedical and Life Sciences Summer Research Fellowship Undergraduate summer research opportunity funded by UROP	2020
	Sophomore Honors Award with Distinction Excellence in academics, extracurriculars, and engagement within LSA Honors Program	2020
	James B. Angell Scholar Awarded to students who achieve an "A" record for two or more consecutive terms	2020
	Slavic Languages Department Essay Award Outstanding work written in a native language Essay Title: Art and Absurdism	2019
	William J. Branstrom Freshman Prize Awarded to top 5% of freshman class within LSA	2019
	LSA Honors Program 201	8-2022
RE	SEARCH EXPERIENCE	
	 Department of Plastic, Aesthetic, Hand, and Reconstructive Surgery, 202 Hannover Medical School, Hannover Research Assistant, Kerstin Reimers Laboratory for Regenerative Biology Optimized and executed RNA isolation techniques, Western blots, qPCR, and successful cell culture of tumor cells Managed individualized project concerning axolotl-derived skin antimicrob peptides for breast cancer treatment Gained animal handling experience with golden orb weaver spiders and axo Facilitated intercultural communication between colleagues in German 	2-2023 ial lotls
	 Honors Thesis, University of Michigan, Ann Arbor <u>Advisor</u>: Paul Cederna, MD <u>Project Title</u>: Regenerative Peripheral Nerve Interfaces (RPNI) Attenuate Neuropathic Pain and Molecular Markers Associated with Symptomatic Neuromas In Both Male and Female Rats 	2022
	 Section of Plastic Surgery, University of Michigan, Ann Arbor 202 Research Assistant, Neuromuscular Lab Assisted in 3 nerve injury experiments using surgical constructs with rats while becoming proficient in tissue techniques such as immunohistochemiss sectioning, and fluorescent imaging Acquired animal handling and behavioral testing proficiency with rats 	0-2022 try,

Research support for females pursuing biological sciences

• Authored literature review investigating effects of neuroma pain on mental health of patients with amputations

Department of General Surgery, University of Michigan, Ann Arbor2019-2020Research Assistant, Cohen Laboratory2019-2020

• Performed cell culture techniques, Western blots, and nanoparticle analysis to determine exosomal cargo of tumor cells within cross-cultured tumor microenvironment

PUBLICATIONS

Journal Publications

Riegger, A., Timek, J., Nelson, N., Dehdashtian, A., Daniel, M., Buchman, S., Kemp, S.W.P., "Severity of Neuropathic Pain, Sensorimotor Impairments, and Sensory Neuron Abnormalities in Rat Model of Radiation Induced Neuropathy is Dose Dependent" Plastic and Reconstructive Surgery- Global Open, vol. 10, issue 6S, p. 129.

Timek, J., Guy, E., Dehdashtian, A., Riegger, A., Kemp, S.W.P., Cederna, P., "Regenerative Peripheral Nerve Interfaces "RPNI" Attenuate Neuropathic Pain and Molecular Markers Associated with Symptomatic Neuromas in Both Male and Female Rats" Plastic and Reconstructive Surgery- Global Open, vol. 10, issue 6S, p. 65

Journal Papers in Review

Lee, J., Timek, J., Brown, D., Cederna, P., Kemp, S.W.P., "A Surgeon's Guide to Understanding the Impact of Mental Health on Surgical Outcomes Following Peripheral Nerve Injury," <u>Submitted to</u>: Plastic and Reconstructive Surgery.

Kemp, S.W.P., Dehdashtian, A., Timek, J., Svientek, S., Risch, M., Bratley, J., Riegger, A., Kung, T., Cederna, P., "Sexually Dimorphic Pattern of Pain Mitigation Following Prophylactic Regenerative Peripheral Nerve Interface (RPNI) in a Rat Neuroma Model," <u>Submitted to</u>: PAIN.

Conference Presentations

Burke, K., Timek, J., Guy, E., Dehdashtian, A., Riegger, A., Kemp, S.W.P., Cederna, P., "Attenuation of Molecular Markers and Neuropathic Pain Associated with Symptomatic Neuromas in Both Male and Female Rats with the Regenerative Peripheral Nerve Interface (RPNI)" American Society for Peripheral Nerve, Miami, Florida. January 20-22, 2023.

Dehdashtian, A., Wisely, J., Svientek, S., Guy, E., Riegger, A., Timek, J., Cederna, P., Kemp, S.W.P., "Perineural Application of Minimally Processed Fat Tissue to

Mitigate Neuropathic Pain in a Rat Model of Neuroma" Plastic Surgery Research Council, Toronto, Ontario. June 8-12 2022.

Riegger, A., Timek, J., Nelson, N., Dehdashtian, A., Daniel, M., Buchman, S., Kemp, S.W.P., "Severity of Neuropathic Pain, Sensorimotor Impairments, and Sensory Neuron Abnormalities in Rat Model of Radiation Induced Neuropathy is Dose Dependent" Plastic Surgery Research Council, Toronto, Ontario. June 8-12 2022.

Timek, J., Guy, E., Dehdashtian, A., Riegger, A., Kemp, S.W.P., Cederna, P., "Regenerative Peripheral Nerve Interfaces "RPNI" Attenuate Neuropathic Pain and Molecular Markers Associated with Symptomatic Neuromas in Both Male and Female Rats" Plastic Surgery Research Council, Toronto, Ontario. June 8-12 2022.

COMMUNITY SERVICE

Hope Medical Clinic Front Desk Assistant, Ypsilanti, MI; 2021-2022

Sigma Alpha Iota International Music Fraternity Music Committee Co-Chair, Ann Arbor, MI; 2020-2022

Detroit Educational Society

Tutor, Ann Arbor, MI; 2020-2021

Proyecto Avance, Latino Mentoring Association Tutor, Ann Arbor, MI; 2019-2020

University of Michigan Red Cross Club Fundraising Chair and Member, Ann Arbor, MI; 2018-2020

LANGUAGES

English: Fluent Polish: Native Spanish: Advanced German: Intermediate

REFERENCES

Dr. Stephen W.P. Kemp, PhD, Associate Research Professor, Plastic Surgery Director, Neuromuscular Lab Department of Surgery, Section of Plastic Surgery University of Michigan 1150 W Medical Center Drive MSRB II, A570 Ann Arbor, MI, 48109 Phone: (734) 764-8750 Email: swpkemp@med.umich.edu

Dr. Paul Cederna, MD, Professor of Plastic Surgery, Chief

Department of Surgery, Section of Plastic Surgery University of Michigan 24 Frank Lloyd Wright Dr. Ste A1200 Lobby A Domino's Farms Ann Arbor, MI, 48105 Phone: 734-998-6022 Email: cederna@med.umich.edu