

**Joseph A. Palatinus MD, PhD**

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 Joseph.Palatinus@utah.edu

**Education and Training**

07/2018-06/2020		Advanced Cardiac Research and Clinical Critical Care Fellow, Cedars Sinai Medical Center, Los Angeles, CA
06/2015- 07/2018		Fellow in Cardiovascular Disease at Cedars Sinai Medical Center, Los Angeles, CA
06/2013-06/2015		Intern and Resident in Internal Medicine Beth Israel Deaconess Medical Center, Boston, MA
06/2005-05/2013	MD	Medical University of South Carolina-College of Medicine, Charleston, SC
06/2005-05/2013	PhD	Biomedical Sciences Medical University of South Carolina-College of Graduate Studies, Charleston, SC
08/2001-05/2005	BS	Davidson College, Davidson, NC Major: Chemistry

**Clinical Appointments**

8/2020- present		Intermountain Medical Center, Cardiac Critical Care Intensivist, Murray, UT
10/2017-present		Sherman Oaks Hospital/ Encino Medical Center, Staff Physician, Internal Medicine/Cardiology, Sherman Oaks, CA
10/2017- 7/2020		Kaiser Permanente Sunset, Per Diem CCU Hospitalist, Los Angeles, CA
6/2019-7/2020		Clinical Critical Care Fellow, Cedars Sinai Medical Center, Los Angeles, CA
6/2015-5/2019		Clinical Fellow in Cardiovascular disease, Cedars Sinai Medical Center, Los Angeles, CA
6/2013-6/2015		Clinical Fellow in Medicine, Harvard Medical School Boston, MA

**Certifications and Licensure**

2020-present	Wisconsin State Medical License # 73935
2019-present	Utah State Medical License # 11416134-1205
2015-present	California State Medical License # A135959
2020-present	Diplomate, American Board of Internal Medicine Critical Care Medicine, #373440
2019-present	Diplomate, American Board of Internal Medicine Cardiovascular Disease, #373440
2016-present	Diplomate, American Board of Internal Medicine, Internal Medicine #373440
2017- 2027	Diplomate, Adult Comprehensive Echocardiography, National Board of Echocardiography

**Research and Related Activities**

9/2020-present	Assistant Professor of Medicine, Division of Cardiovascular disease, University of Utah, Nora Eccles Harrison Cardiovascular Research Training Institute
6/2015-7/2020	Cedars Sinai Heart Institute Mentor: Robin Shaw MD, PhD Project: Applying alternatively translated isoforms of Cx43 to rescue arrhythmogenic cardiomyopathy.
6/2007-5/2013	Medical University of SC, Department of Regenerative Medicine and Cell Biology Mentor: Robert Gourdie, PhD Project: <b>Molecular interactions of the Cx43 CT in diabetic cardiac injury</b> : I demonstrated that gap junction organization is disrupted in the diabetic mouse heart and that cardiac cell death is increased in the diabetic mouse after epicardial cryo-injury. Cell death could be rescued with insulin administration. Insulin acutely decreased gap junction mediated intercellular communication and was associated with phosphorylation of the gap junction protein by an insulin responsive protein kinase.
6/2003-5/2005	Department of Chemistry Davidson College, Mentor: Felix Carroll PhD I developed a novel computational method for predicting physical properties of chemical substances.
6/2003-5/2005	Department of Chemistry Davidson College, Mentor: Ruth Beeston PhD: I analyzed the remains of 2500 year old pottery using gas chromatography mass spectrometry.

**Extramural Funding**

**Active Support**

6/2023-6/2027

*Targeting Cardiac Inflammation with Isoforms of GJA1*  
Nora Eccles Treadwell Foundation: \$200,000 NOA  
pending

2/2022-2/2024

*Targeting Inflammation and Exercise in Arrhythmogenic  
Cardiomyopathy: A Novel Therapeutic Strategy for Heart  
failure* Harold Geneen Charitable Trust 225,000

9/2021-9/2026

*Targeting protein trafficking in arrhythmogenic  
cardiomyopathy* Career development award National  
Institutes of Health(NIH)/ National Heart Lung and Blood  
institute (NHLBI) NO K08HL155886 Principal Investigator  
(166,000/ year direct costs) Received Impact score of 14,

**Previous Support**

2008-2013

*Connexin 43 gap junction dynamics in the diabetic heart*  
Ruth L. Kirchstein Fellowship National Institutes of  
Health(NIH)/ National Heart Lung and Blood institute  
(NHLBI), No. 5F30HL095320:  
Principal investigator [\$181,077 ]  
This grant funded my position as a research fellow during  
my MD/PhD training at the Medical University of South  
Carolina. My research during this time lead to publication  
of 7 peer reviewed journal articles and reviews.

**Honors and Awards**

2020

Will Rogers Institute Fellowship Award, Cedars Sinai  
Medical Center, Los Angeles, CA

2018

William Mandel Cardiac Research Award, Smidt Heart  
institute, Los Angeles, CA

2018

Cedars Sinai Clinical Fellows Award for Excellence in  
Research, Los Angeles, CA

2011

Keystone Symposia scholarship winner: *Extracellular  
Matrix and Cardiovascular Remodeling* Lake Tahoe, CO.  
Jan. 23-28, 2011.

2010

MUSC Student research day 2<sup>nd</sup> place winner

2004

Omicron Delta Kappa, Honor Society  
Davidson College, Davidson, NC

2004

Sunshine Lady Foundation Grant Recipient,  
Davidson College, Davidson, NC

2003 Porter Vinson Chemistry Department Award,  
Davidson College, Davidson, NC

### Educational Experience

2014 Beth Israel Deaconess Division of Cardiology, Zoll/CCU  
Guide, Writer/Contributor

2006-2010 MCAT Prep Teacher MUSC Center for Academic  
Excellence, Charleston, SC

### Publications

#### Original Research

1. Shimura D, Nuebel E, Baum R, Valdez SE, Xiao S, Warren JS, **Palatinus JA**, Hong T, Rutter J, Shaw RM. Protective mitochondrial fission induced by stress-responsive protein GJA1-20k. *Elife*. 2021 Oct 5;10:e69207. doi: 10.7554/eLife.69207.
2. Yao C, Bora SA, Parimon T, Zaman T, Friedman OA, **Palatinus JA**, Surapaneni NS, Matusov YP, Cerro Chiang G, Kassar AG, Patel N, Green CER, Aziz AW, Suri H, Suda J, Lopez AA, Martins GA, Stripp BR, Gharib SA, Goodridge HS, Chen P. Cell-Type-Specific Immune Dysregulation in Severely Ill COVID-19 Patients. *Cell Rep*. 2021 Jan 5;34(1):108590. doi: 10.1016/j.celrep.2020.108590. PMID: 33357411;
3. Jiang Jingbo\*, Hoagland D\*, **Palatinus JA\***, He H\*, Iyyathurai J, Jourdan LJ, Bultynck G, Wang Z, Zhang Z, Schey K, Poelzing S, McGowan FX, Gourdie RG, *Interaction of  $\alpha$  Carboxyl Terminus 1 Peptide With the Connexin 43 Carboxyl Terminus Preserves Left Ventricular Function After Ischemia-Reperfusion Injury.* *J Am Heart Assoc.* 2019 Aug 20;8(16) Epub 2019 Aug 19. \*Contributed equally to work
4. **Palatinus, Joseph A**, Robert G. Gourdie, *Diabetes Increases Cryoinjury Size with Associated Effects on Cx43 Gap Junction Function and Phosphorylation in the Mouse Heart.* *J Diabetes research*. 2016. Epub 2015 Dec 14.
5. **Palatinus, Joseph A**, Joshua M Rhett, Robert G Gourdie, *Enhanced PKC-epsilon mediated phosphorylation of connexin43 at serine 368 by a carboxyl-terminal mimetic peptide is dependent on injury.* *Channels (Austin)*. 2011 May 1;5 (3):236-40.
6. **Palatinus Joseph A**, O'Quinn MP, Barker RJ, Harris BS, Jourdan J, Gourdie RG. *ZO-1 determines adherens and gap junction localization at intercalated disks.* *Am J Physiol Heart Circ Physiol*. 2011 Feb; 300 (2) :H583-94.
7. O'Quinn MP, **Palatinus JA**, Harris BS, Hewett KW, Gourdie RG. *A peptide mimetic of the connexin43 carboxyl terminus reduces gap junction remodeling and induced arrhythmia following ventricular injury.* *Circulation Research*. 2011 Mar 18;108(6):704-15.
8. **Palatinus, Joseph A.**; Carroll, Felix A.; Argenton, Andre B.; Quina, Frank H. *An improved characteristic molecular volume parameter for linear solvation energy*

*relationships of acyclic alkanes*. Journal of Physical Organic Chemistry (2006),19(11), 725-730.

**9. Palatinus, Joseph A.**; Sams, Cassandra M.; Beeston, Christopher M.; Carroll, Felix A.; Argenton, Andre B.; Quina, Frank H. *Kinney Revisited: An Improved Group Contribution Method for the Prediction of Boiling Points of Acyclic Alkanes*. Industrial & Engineering Chemistry Research (2006), 45(20), 6860-6863.

### Reviews/ Case Reports

1. Kedan I, Ciozda W, **Palatinus JA**, Palatinus HN, Kimchi A, Prognostic value of point-of-care ultrasound during cardiac arrest: a systematic review, Cardiovasc Ultrasound. 2020 Jan 13;18(1):1.

2. Malhorta, P, **Palatinus, JA**, Singh S, Alkaptonuria-associated aortic stenosis Effectively Managed with a transcatheter aortic valve, The Journal of Heart Valve disease Accepted June, 2019.

3. **Palatinus Joseph A.** Saumya Das. *Your Father and Grandfather's Atrial Fibrillation: A Review of the Genetics of the Most Common Pathologic Cardiac Dysrhythmia*. Curr Genomics. 2015 Apr;16(2):75-81.

4. **Palatinus, Joseph A.** Sarah B. Lieber, Katherine E. Joyce, and Jeremy B. Richards. *Extracorporeal Membrane Oxygenation Support for Hypokalemia-induced Cardiac Arrest: A Case Report and Review of the Literature*. J Emerg Med. 2015 Aug;49(2):159-64

5. Strungs EG, Ongstad EL, O'Quinn MP, **Palatinus JA**, Jourdan LJ, Gourdie RG. *Cryoinjury models of the adult and neonatal mouse heart for studies of scarring and regeneration*. Methods Mol Biol. 2013;1037:343-53.

6. **Palatinus, Joseph A** J Matthew Rhett, Robert G Gourdie. *The connexin43 carboxyl terminus and cardiac gap junction organization*. Biochim Biophys Acta. 2011 Aug 9.

7. **Palatinus, Joseph A**, Rhett JM, Gourdie RG. *Translational lessons from scarless healing of cutaneous wounds and regenerative repair of the myocardium*. J Mol Cell Cardiol. 2010 Mar; 48 (3) :550-7.

8. **Palatinus Joseph A**; Gourdie Robert G *Xin and the art of intercalated disk maintenance*. American Journal of Physiology. Heart and circulatory physiology (2007), 293(5).

9. Matthew J Rhett; Gautum S Ghatnekar; **Joseph A Palatinus**, Michael O'Quinn; Michael J Yost; Robert George Gourdie. *Novel therapies for scar reduction and regenerative healing of skin wounds*. Trends in Biotechnology 2008 Apr;26(4):173-80.

### Book Chapters

1. Gourdie, R.G., Rhett, J.M., Ongstad, E.L., **Palatinus, J.A.**, O'Quinn, M.P.. (2012). Translating Basic Research on Cx43 Gap Junctions into

Therapies for Reducing Scarring and Cardiac Arrhythmia. In E. Oviedo-Orta (Ed.), *Connexin Cell Communication Channels: Roles in the Immune System and Immunopathology* (pp. unknown). Boca Raton, FL. CRC Press: ATaylor & Francis Group LLC.

2. Strungs, E.G., Ongstad, E.L., O'Quinn, M.P., **Palatinus, J.A.**, Jourdan, J.L., Gourdie, R.G.. (2012). Cryoinjury models of the adult and neonatal mouse heart for studies of scarring and regeneration. In T.A. Myers and R.G. Gourdie (Ed.), *Wound Regeneration and Repair: Methods and Protocols* (pp. 000-000). New York, NY. Humana Press.

### **Extracurricular Activities**

2011-2013: CARES Free Clinic volunteer

Hobbies: Chemical Archeology. Delorean car restoration, hunting, wakeboarding, skiing,

Languages: English, Spanish, Hungarian