

Vanessa Nomellini, MD, PhD, FACS
Curriculum Vitae

Present Position: Associate Professor
Division of Burn, Trauma, Acute, and Critical Care Surgery
University of Texas Southwestern
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Dallas, TX 75390
Email: Vanessa.Nomellini@UTSouthwestern.edu

Education and Training:

1999-2003 **BS, Biology**
DePaul University, Chicago, IL

2003-2010 **MD/PhD, Molecular and Cellular Biochemistry**
Loyola University Stritch School of Medicine, Maywood, IL

2010-2015 **General Surgery Resident**
University of Wisconsin Hospital and Clinics, Madison, WI

2015-2016 **Trauma and Surgical Critical Care Fellowship**
University of Pennsylvania, Philadelphia, PA

Research Training:

2001-2003 **Undergraduate Research Assistant:** Characterization of a novel protein expressed on airway epithelium involved in binding to bacterial antigens in the context of a primary immune defense.
Advisor: Elizabeth E. LeClair, PhD, Department of Biological Sciences, DePaul University, Chicago, IL

2004 **Summer Research Fellowship:** Exploring the effects of estrogen on murine macrophage function in vitro.
Advisor: Elizabeth J. Kovacs, PhD, Department of Cell Biology, Neurobiology, and Anatomy, Loyola University Medical Center, Maywood, IL

2005-2008 **Doctoral Dissertation:** The effects of age on pulmonary inflammation following burn injury.
Advisor: Elizabeth J. Kovacs, PhD, Department of Surgery, Loyola University Medical Center, Maywood, IL

Board Certifications:

11/16/2015 General Surgery
Certificate #060761

9/12/2016 Surgical Critical Care
Certificate #003936

Licensure:

10/2015-12/2016 State of Pennsylvania, Medical License
7/2016-4/2024 State of Ohio, Medical License
8/2022-present State of Texas, Medical License

Additional Certifications:

2016-2016 BLS
2016-present ATLS course instructor
2016-present ACLS
2017-present ASSET course instructor
2022-present ATLS course director

Academic Appointments:

2016-2020 Assistant Professor, University of Cincinnati, Cincinnati, OH
2020-2022 Associate Professor, University of Cincinnati, Cincinnati, OH
2022-present Associate Professor, University of Texas Southwestern, Dallas, TX

Funding Support:

Summer 2004 **“Macrophage function in aged mice following estrogen replacement”**
American Academy of Allergy, Asthma, and Immunology
\$2000 (direct costs), summer stipend. Role: PI

4/1/07 - 3/31/11 **“Aging effects on acute lung inflammation after burn injury”**
NIH F30 AG029724-02
\$26,892/\$107,568 (direct costs). Role: PI

7/1/17-6/30/18 **“The role of sphingosine in the susceptibility to pneumonia in the elderly”**
American Association for the Surgery of Trauma
\$50,000 (direct costs). Role: PI

9/20/18-8/31/20 **“Mechanisms of altered neutrophil trafficking in the Persistent Inflammation, Immunosuppression and Catabolism Syndrome”**
NIH K08 GM131284-01
\$991,621. Role: PI

9/1/20-6/30/25 **“Utilizing Immune Phenotypes to Prevent Chronic Critical Illness”**
NIH R35 GM138020-01
\$2,006,250 (direct costs). Role: PI

Leadership Positions:

2006-2007 **MD/PhD Student Representative, Medical Student Union**
Loyola University, Chicago, IL

- 2006-2007 **Vice President, Graduate Student Advisory Council,**
Loyola University, Chicago, IL
- Duties included construction of the constitution and mission statement, website design, regulator of all committees, liaison to the Graduate School Alumni Group, and presiding member of all meetings in the absence of the president.
- 2007-2008 **President, Graduate Student Advisory Council**
Loyola University, Chicago, IL
- Duties included meeting with the Deans of the Graduate school as representative of the council, presiding over all meetings, appointing committees and chairpersons, and chair of the committee for organizing the annual Interdisciplinary Research Symposium for Graduate Students and Alumni.
- 2018-2022 **Medical Director, UC Health Multidisciplinary ICU Recovery Program**
University of Cincinnati, Cincinnati, OH
- I created and currently lead a multi-disciplinary program for patients with prolonged ICU courses leading to chronic critical illness. This comprehensive program manages ICU-related problems after discharge from the hospital. At each visit, an intensivist, an ICU pharmacist, a dietitian, and a case manager evaluate the patients to address all medical, neurocognitive, functional, and financial issues related to their prolonged ICU stay. I also oversee the parallel clinics run by Critical Care Anesthesia and Pulmonary Critical Care for CVICU and MICU survivors, respectively. All patients enrolled in the program are included in an IRB-approved registry to track overall outcomes for this complex patient population.
- 2021-2022 **Medical Director, Trauma Survivor Network**
University of Cincinnati, Cincinnati, OH
- The University of Cincinnati has partnered with the American Trauma Society to launch the first Trauma Survivors Network in Southern Ohio. This program connects trauma survivors with programs that support patients and their families throughout their recovery process and provides resources to enable survivors to rebuild their lives. This includes a peer visitation program, peer support groups, multiple online programs, and the Next Steps program, which helps patients take charge of their recovery by teaching them skills to self-manage and be prepared to handle difficult situations.
- 2022-present **Research Director, Division of Burn, Trauma, Acute, and Critical Care Surgery**
University of Texas Southwestern, Dallas, TX
- 2022-present **Co-Director, Center for Organogenesis Research and Trauma**
University of Texas Southwestern, Dallas, TX

CORT was established in 2020 by the Department of Surgery at UT Southwestern Medical Center. CORT is one of the premier basic science and translational research programs in the world for the study of organogenesis and response to trauma. This program unites diverse members of the UT Southwestern community, including trainees, scientists, clinical faculty, and staff, around a single goal of improving the lives of people who have suffered traumatic injuries.

Awards and Honors:

2000	CRC Press Freshman Achievement Award in Chemistry DePaul University, Chicago, IL
2001	Columbian Club Charitable Foundation Scholarship
2001	Achievement in Organic Chemistry Award DePaul University, Chicago, IL
2002	All-American Scholar Award DePaul University, Chicago, IL
2007	Travel award, Meeting of the Society for Leukocyte Biology
2011	Highest Junior Exam Score, American Board of Surgery In-Service Training Exam University of Wisconsin, Madison, WI
2014	Emergency Medicine Trauma Award University of Wisconsin, Madison, WI
2016	Hospital of the University of Pennsylvania Rhoads 5 Fellow of the Year University of Pennsylvania, Philadelphia, PA
2016	Penn Presbyterian Trauma Surgical ICU Fellow of the Year University of Pennsylvania, Philadelphia, PA
2017	Nominee for the Searle Scholars Program University of Cincinnati College of Medicine, Cincinnati, OH
2018	Fellow of the American College of Surgeons
2019	Nominee for Cincinnati Business Courier's Forty under 40 Award
2020	Faculty induction into Alpha Omega Alpha
2021	Nominee for Cincinnati Business Courier's Forty under 40 Award

Professional Society Membership:

2006-2008	Society for Leukocyte Biology , Member
2010-2015	American College of Surgeons , Resident Member
2010-2015	Association of Women Surgeons , Resident Member
2012-2014	Organization of Resident Representatives , General Surgery Representative, American Association of Medical Colleges
2012-2014	American Medical Association , Resident Member

2012-2015	Resident Education Committee , Resident Representative
2013-2015	Association for Academic Surgery , Candidate Member
2015-2016	Society of Critical Care Medicine , Fellow Member
2016-present	Shock Society , Member
2016-present	American College of Surgeons , Faculty Member
2016-present	Eastern Association for the Surgery of Trauma , Faculty Member
2016-present	Society of Critical Care Medicine , Faculty Member
2016-present	Association for Academic Surgery , Faculty Member
2017-2018	American Burn Association , Member
2018-present	Central Surgical Association , Faculty Member
2021-present	Surgical Biology Club , Faculty Member
2021-present	Society for University Surgeons , Faculty Member

Professional Society Positions:

2017-2019	Publications Committee Journal of Surgical Research
2017-2020	Manuscript and Literature Review Committee Eastern Association for the Surgery of Trauma
2019-2021	Diversity Committee Shock Society
2019-2021	Basic Science and Translational Science Committee Association for Academic Surgery
2020-present	Co-Chair, Preparedness Committee Shock Society
2022-present	Program Committee Shock Society

Intramural and Regional Committee Positions:

2017-2022	Pulmonary Embolism Response Team University of Cincinnati, Cincinnati, OH
2019-2022	Trauma Documentation Committee University of Cincinnati, Cincinnati, OH
2020-2022	Critical Care Resource Allocation Workgroup University of Cincinnati, Cincinnati, OH
2020-2022	Ohio Region 6 COVID-19 Crisis Standards of Care Workgroup
2021-2022	Appointment, Reappointment, Promotion and Tenure Committee University of Cincinnati, Cincinnati, OH
2022-present	Pulmonary Embolism Response Team University of Texas Southwestern, Dallas, TX

Editorial Boards:

2019-present Journal of Surgical Research
2021-present Critical Care Explorations

Ad Hoc Reviewer:

2019-present Journal of Trauma and Acute Care Surgery
2019-present PLOS One
2019-present Journal of Surgical Research
2020-2021 Critical Care Explorations

Meetings Organized:

2008 Chair of Program Committee, First Interdisciplinary Research Symposium
for Graduate Students and Alumni
Loyola University, Chicago, IL

Community Involvement

2016-present ATLS Instructor
2017-present "Stop the Bleed" Campaign Instructor

Research Mentorship:

Undergraduate Students:

2016-2017 Joshua Maurmier

Medical Students:

2021-present Griffin McDaniel

Postdoctoral Fellows:

2019-2022 Satarupa Sengupta, PhD

Surgery Residents:

2020-2022 Dennis Vaysburg, MD

Invited Lectures and Presentations:

2006 *Aging and Acute Lung Inflammation after Burn Injury*
Molecular and Cellular Biochemistry Research Retreat, Lisle, IL
2007 *Lecture Series: Normal Lung Function*
Meeting of the Burn and Shock Trauma Institute, Loyola University,
Chicago, IL
2007 *Aging Effects on Acute Lung Inflammation after Burn Injury*
Molecular and Cellular Biochemistry Research Retreat, Lisle, IL

- 2008 *Aberrant neutrophil sequestration in the lungs of aged mice after burn injury is paralleled by a degree in the neutrophil chemokine receptor, CXCR2.* Meeting of the Society for Leukocyte Biology, Denver, CO
- 2009 *Acute Renal Failure.* MD/PhD Case Conference
Loyola University, Chicago, IL
- 2012 *Residency 101: Choosing and Surviving Your Path*
8th Annual Meeting of the American Physician Scientists Association, Chicago, IL
- 2013 *Can Patient Perspectives Help Minimize Hospital Readmissions?*
Resident Research Day, University of Wisconsin, Madison, WI
- 2014 *Can Patient Perspectives Help Minimize Hospital Readmissions?*
Academic Surgical Congress, San Diego, CA
- 2015 *The Surgeon Personality*
Surgical Grand Rounds, University of Wisconsin, Madison, WI
- 2017 *Peptic Ulcer Disease*
Resident Education Conference, University of Cincinnati, Cincinnati, OH
- 2017 *Acute Pancreatitis*
Resident Education Conference, University of Cincinnati, Cincinnati, OH
- 2017 *Organ Failure Scoring. Surgical Critical Care: Annual Update.*
Clinical Congress, San Diego, CA
- 2018 *Advanced Degrees: Are They Necessary?*
4th Annual Surgeons, Scholars and Leaders Symposium, Jackson Hole, WY
- 2018 *Delivering Patient Safety Events and Bad News Patients and Their Families.* Chief Resident Effectiveness and Development Retreat, Cincinnati, OH
- 2018 *The Role of Sphingosine in the Susceptibility to Pneumonia in the Elderly.* American Association for the Surgery of Trauma, San Diego, CA
- 2018 *Surgical Infections*
Resident Education Conference, University of Cincinnati, Cincinnati, OH
- 2019 *Launching a Basic Science Career*
5th Annual Surgeons, Scholars, and Leaders Symposium, Jackson Hole, WY
- 2019 *ICU Infections and Source Control*
Critical Care Fellow Lecture. University of Cincinnati, Cincinnati, OH
- 2019 *Critical Care Updates*
Surgical Grand Rounds. University of Cincinnati, Cincinnati, OH
- 2019 *Surgical Anatomy*
APP lecture, University of Cincinnati, Cincinnati, OH
- 2019 *Global and Local Perspectives on Sepsis Care*
Panel discussion. Acute Care Research Symposium, University of Cincinnati, Cincinnati, OH
- 2019 *Chronic Critical Illness and Immune Dysfunction after Burn*
Shriner's Board of Governor's Meeting, Shriners Hospital for Children, Cincinnati, OH

2020	<i>Post-ICU Syndrome</i> Critical Care Fellow Lecture. University of Cincinnati, Cincinnati, OH
2020	<i>ICU Infections and Source Control</i> Critical Care Fellow Lecture. University of Cincinnati, Cincinnati, OH
2020	<i>Allocation of Critical Care Resources</i> Emergency Medicine Grand Rounds. University of Cincinnati, Cincinnati, OH
2020	<i>Battles and Successes in the Beginning of Your Career: Tackling the K Award</i> Shock Society Virtual Series, Session Chair
2021	<i>Immune Dysfunction and Chronic Critical Illness</i> Cincinnati Children's Critical Care Research Conference, Cincinnati, OH
2021	<i>Surgical Infections</i> Resident Education Conference, University of Cincinnati, Cincinnati, OH
2021	<i>Hypoxia and ARDS</i> Resident Education Conference, University of Cincinnati, Cincinnati, OH
2021	<i>Critical Care for Vascular Trainees</i> Vascular Resident Education Conference, University of Cincinnati, Cincinnati, OH
2021	<i>Immune Dysfunction and Chronic Critical Illness</i> Visiting Professor, UT Southwestern, Dallas, TX.
2022	<i>Post-ICU Syndrome and ICU Recovery</i> Transplant Grand Rounds, University of Cincinnati, Cincinnati, OH
2022	<i>Immune Dysfunction in Chronic Critical Illness</i> Surgical Biology Club, San Diego, CA.
2022	<i>Frontiers in the Persistent Inflammation, Immunosuppression, and Catabolism Syndrome</i> Center for Organogenesis and Research on Trauma lecture, Dallas, TX

Peer Reviewed Journal Articles:

1. LeClair EE, **Nomellini V**, Mahena M, Singleton V, Bingle L, Craven CJ, Bingle CD. 2004. Cloning and expression of a mouse member of the PLUNC protein family exclusively expressed in tongue epithelium. *Genomics*. 83:658-666.
2. Gomez, CR, Hirano S, Cutro BT, Birjandi S, Baila H, **Nomellini V**, Kovacs EJ. 2007. Advanced age exacerbates the pulmonary inflammatory response after lipopolysaccharide exposure. *Crit Care Med*. 35:246-251.
3. Gomez CR, **Nomellini V**, Boehmer ED, Kovacs EJ. 2007. Signal transduction of the aging innate immune system. *Current Immunology Reviews*. 3:23-30.
4. **Nomellini V**, Faunce DE, Gomez CR, Kovacs EJ. 2008. An age-associated increase in pulmonary inflammation after burn injury is abrogated by CXCR2 inhibition. *J Leukoc Biol*. 83:1493-1501.
5. Gomez CR, **Nomellini V**, Kovacs EJ. 2008. Innate immunity and aging. *Expt. Gerontol.*, invited review. 43:718-728.
6. **Nomellini V**, Gomez CR, Kovacs EJ. 2008. Aging and impairment of innate immunity. *Contrib Microbiol*, invited review. 15:188-205.

7. Gomez CR, **Nomellini V**, Baila H, Oshima K, and Kovacs EJ. 2009. Comparison of the effects of aging and IL-6 on the hepatic inflammatory response in two models of systemic injury: scald injury versus i.p. LPS administration. *Shock*. 31:178-184.
8. **Nomellini V**, Gomez CR, Kovacs EJ. 2009. Aging and models of injury, shock, and trauma. *Shock*, invited review. 31:11-20.
9. Gomez CR, Karavitis J, Palmer JL, Faunce DE, Ramirez L, **Nomellini V**, Kovacs EJ. 2010. Interleukin-6 contributes to age-related alteration of cytokine production by macrophages. *Mediators Inflamm*. 2010:475139.
10. **Nomellini V**, Chen H. Book Review: Murray and Nadel's Textbook of Respiratory Medicine. *J Surg Res*. 173:45.
11. **Nomellini V**, Brubaker AL, Mahbub S, Palmer JL, Gomez CR, Kovacs EJ. 2012. Dysregulation of neutrophil CXCR2 and pulmonary endothelial ICAM-1 promotes age-related pulmonary inflammation. *Aging and Disease*. 3:234-247.
12. **Nomellini V**, Kent KC. 2013. The past and the present shape University of Wisconsin's Department of Surgery. *Am Surg*. 79:1123-1130.
13. Carlson A, **Nomellini V**, Neuman H. 2013. The importance of high clinical suspicion in diagnosing a Marjolin's ulcer with an unusual presentation. *Am Surg*. 80:E61-2.
14. **Nomellini V**, O'Leary M, Carayon P, Brenny-Fitzpatrick M, Greenberg CC, Winslow ER, Weber SM. 2015. Patient perspectives in minimizing surgical readmissions. *Int J Surg Res Pract*. 2:3
15. Rice TC, **Nomellini V**, Pugh AM, Whitacre BE, Seitz AP, Edwards MJ, Gulbins E, and Caldwell CC. 2017. Sphingosine rescues aged mice from pulmonary Pseudomonas infection. *J Surg Res*. 219:354-359.
16. Pugh AM, Goetzman HS, Caldwell CC, **Nomellini V**. 2017. A murine model of the persistent inflammation, immune suppression, and catabolism syndrome. *Int J Mol Sci*. 18(8).
17. Jung AD, Baker J, Droege C, **Nomellini V**, Johannigman JA, Holcomb JB, Goodman MD, Pritts TA. 2018. Sooner is better: use of a real time automated bedside dashboard improves sepsis care. *J Surg Res*.231:373-379.
18. **Nomellini V**, Kaplan LJ, Sims C, Caldwell CC. 2018. Chronic critical illness and innate immune paralysis: what can we learn from the elderly, septic, injured, and malnourished? *Shock*. 49:4-14.
19. Adams M, **Nomellini V**, Bennett S. 2018. Anesthetic concerns in the pregnant trauma patient. *Curr Trauma Reports*. 4:218-224.
20. Xia BT, Beckmann N, Winer LK, Kim Y, Goetzman HS, Veile RE, Gulbins E, Goodman MD, **Nomellini V**, Caldwell CC. 2019. Amitriptyline treatment mitigates sepsis-induced tumor necrosis factor expression and coagulopathy. *Shock*. 51:356-363.
21. Baker JE, Martin GE, Katsaros G, Lewis HV, Wakefield C, Josephs S, **Nomellini V**, Makley AT, Goodman MD. 2018. Variability of fluid administration during exploratory laparotomy for abdominal trauma. *Trauma and Acute Care Open*. 3:e000240.
22. Martin GE, Pugh AM, Williams SG, Hanseman D, **Nomellini V**, Makley AT, Pritts TA, Goodman MD. 2019. Lower extremity duplex ultrasound screening protocol for moderate and high risk trauma patients. *J Surg Res*. 235:280-287.
23. Winer LK, Beckmann N, Veile RE, Goodman MD, Caldwell CC, **Nomellini V**. 2019. Consumptive coagulopathy is associated with organ dysfunction during PICS. *Am J Physiol Lung Cell Mol Physiol*. 316:L946-952.

24. Xia BT, Beckmann N, Winer LK, Pugh AM, Pritts TA, **Nomellini V**, Gulbins E, Caldwell CC. 2019. Amitriptyline reduces inflammation and mortality in a murine model of sepsis. *Cellular Physiology and Biochemistry*. 52:565-579.
25. Baker JE, Niziolek GM, Elson N, Pugh AM, **Nomellini V**, Makley AT, Pritts TA. 2019. Optimizing lower extremity duplex ultrasound screening after traumatic injury. *J Surg Res*. 243:143-150.
26. Beckman N, Salyer CT, Crisologo PA, **Nomellini V**, Caldwell CC. 2020. Staging and personalized intervention for infection and sepsis. *Surgical Infections*. 21:732-744.
27. Tobin JM, Gavitt BJ, **Nomellini V**, Dobson GP, Letson HL, Shackelford SA. 2020. Immunotherapeutic options for inflammation in trauma. *J Trauma and Acute Care Surg*. 89:S77-S82.
28. Beckmann N, Huber F, Hanschen M, St. Pierre Schneider B, **Nomellini V**, Caldwell C. 2020. Scald injury-induced T cell dysfunction can be mitigated by Gr1+ cell depletion and blockage of CD47/CD172 signaling. *Front Immunol*. 11:876.
29. Satarupa S, Caldwell CC, **Nomellini V**. 2020. Distinct neutrophil populations in the spleen during PICS. *Frontiers in Immunology*. 11:804.
30. Winer LK, Salyer CE, Beckmann N, Caldwell CC, **Nomellini V**. 2020. Enigmatic role of coagulopathy among sepsis survivors: a review of coagulation abnormalities and their possible link to chronic critical illness. *Trauma Surg Acute Care Open*. 5:e000462.
31. Kassam AF, Levinsky NC, Mallela JP, Angel K, Opoka A, Lahni P, Sahay RD, Fei L, **Nomellini V**, Wong HR, Alder MN. 2020. Olfactomedin 4 positive neutrophils are upregulated following hemorrhagic shock. *Am J Respir Cell Mol Biol*. 64:216-223.
32. Beckmann N, Schuhmacher FM, Kleuser, B, Gulbins E, **Nomellini V**, Caldwell CC. 2020. Burn injury impairs neutrophil chemotaxis through increased ceramide. *Shock*. 56:125-132.
33. Bergmann CB, Beckman N, Salyer CE, Crisologo PA, **Nomellini V**, Caldwell CC. 2021. Lymphocyte immunosuppression and dysfunction contributing to Persistent Inflammation, Immunosuppression, and Catabolism Syndrome (PICS). *Shock* 55:723-741.
34. Singer KE, Sussman JE, Kodali RA, Winer LK, Heh V, Hanseman D, **Nomellini V**, Pritts TA, Droege CA, Goodman MD. 2021. Hitting the vasopressor ceiling: finding norepinephrine associated mortality in the critically ill. *J Surg Res*. 265:139-146.
35. Singer KE, Bercz AP, Morris MC, Elson NC, Wallen TE, Hanseman D, Pritts TA, **Nomellini V**, Patel S, Makley AT, Goodman MD. 2021. Acute and chronic hematologic implications of emergency and elective splenectomy. *J Surg Res*. 267:197-202.
36. Wallen TE, Elson NC, Singer KE, Hayes HV, Salvator A, Droege CA, **Nomellini V**, Pritts TA, Goodman MD. 2022. Tracheostomy decreases continuous analgesia and sedation requirements. *J Trauma Acute Care Surg*. 94(4):545-551.
37. Nathwani, JN, Baucom MR, Salvator A, Makley AT, Tsuei BJ, Droege CA, Goodman MG, **Nomellini V**. 2022. Evaluating the utility of high sensitivity troponin in blunt cardiac injury. *J Surg Res*. 281:104-111.
38. Eaton TL, Sevin CM, Danesh V, Maley JH, Mayer KP, Bakhru RN, Bernstein T, Biehl M, Butcher BW, Dalton M, Enfield KB, Hoehn KS, Hope AA, Jagpal S, Jolley SE, Kenes MT, Khan BA, Korzick KA, Lief L, McSparron JI, Meyer J, Mohammad RA, Montgomery-Yates A, **Nomellini V**, Parker AM, Poyant J, Saft H, Santhosh L, Schwab K, Stollings JL, Torbic H, Valley TS, Baram M, Iwashyna TJ, Boehm LM, McPeak J. 2022. Reconnecting with survivors of critical illness as a potential mechanism to decrease ICU clinician burnout. *Submitted*.

Book Chapters:

1. **Nomellini V**, Gomez C, and Kovacs EJ. 2008. Aging and Impairment of Innate Immunity. In *Contributions to Microbiology: Trends in Innate Immunity*. (eds., Herwald H, Egesten A, and Schmid At), Karger AG, Basel, Switzerland. 15:188-205.
2. Gomez CR, **Nomellini V**, and Kovacs EJ. 2009. Sex hormones and immunosenescence. In *Ageing, Immunity and Inflammation*. (eds., Fulop T, Hirokawa K, Pawelec G and Franceschi C), Springer Press, New York, NY. pp. 799-832.
3. **Nomellini V**, Kennedy GD. 2013. Chapter 7: Modern Techniques for Protein Assessment. In *Success in Academic Surgery: Basic Science*. (eds., Kibbe MR, LeMaire SA), Springer Press, New York, NY. pp. 83-106.
4. Johnson BL, **Nomellini V**. 2016. Chapter 8: Conscious Sedation. In *Mont Reid Handbook for General Surgery Residents*. (eds., Sutton JM, Beckwith MA, Johnson BL, Knod JL, Walther A, Watson CL, Wilson GC), Elsevier, Philadelphia, PA. pp 102-108.
5. **Nomellini V**, Sims C. 2019. Chapter 3: Physiologic Response to Trauma. In *The Trauma Manual: Trauma and Acute Care Surgery*. (eds., Peitzman AB, Yealy DM, Fabian TC, Schwab CW), Wolters Kluwer, Philadelphia, PA. pp. 16-21.

Research Reports and Abstracts:

1. LeClair EE, **Nomellini V**, Bingle L. Expression of TPL, PLUNC, and the vonEbner minor salivary gland protein: A trio of secreted proteins in the mouse upper respiratory tract. *American Thoracic Society International Conference (2002)*, Atlanta, GA.
2. **Nomellini V**, Boehmer ED, Kovacs EJ. Does estrogen replacement in aged mice improve macrophage function? *St Luke's Day Medical Research Forum (2004)*, Maywood, IL.
3. **Nomellini V**, Ramirez LR, Cutro BT, Gomez CR, Kovacs EJ. Aberrant pulmonary pathology in aged mice may explain age-dependent differences in mortality after injury. *34th Annual Autumn Immunology Conference (2005)*, Chicago, IL.
4. **Nomellini V**, Ramirez L, Cutro BT, Faunce DE, Gomez CR, and Kovacs EJ. Aging effects acute lung injury after burn. *Annual Conference on Shock (2006)*, Denver, CO.
5. Gomez CR, Birjandi S, Hirano S, Cutro BT, Baila H, **Nomellini V**, and Kovacs EJ. Advanced age exacerbates the pulmonary inflammatory response after lipopolysaccharide exposure. *Annual Conference on Shock (2006)*, Denver, CO.
6. Murdoch EL, Greiffenstein P, Gomez CR, **Nomellini V**, Ramirez L, Morgan MO, and Kovacs EJ. Pulmonary inflammatory responses after ethanol exposure and burn injury. *Annual Conference on Shock (2006)*, Denver, CO.
7. **Nomellini V**, Faunce DE, Kovacs EJ. Neutrophil accumulation in lungs of aged mice after burn injury. *MD/PhD Student Conference (2006)*, Keystone, CO.
8. Gomez C, Baila H, Morgan MO, Oshima K, Nomellini V, and Kovacs EJ. Elevated hepatic inflammatory response in aged mice given LPS. *Meeting of the Society for Leukocyte Biology (2006)*, San Antonio, TX.
9. **Nomellini V**, Faunce DE, Gomez CR, Kovacs EJ. Increased pulmonary inflammation in aged mice subjected to burn injury. *Meeting of the Society for Leukocyte Biology (2006)*, San Antonio, TX.
10. Kovacs EJ, Plackett TP, Nomellini V, Boehmer ED, and Gomez CR. Advanced age alters innate immune response after injury. *Meeting of the Society for Leukocyte Biology (2006)*, San Antonio, TX.

11. Nomellini V, Faunce DE, Gomez CR, Kovacs EJ. Pulmonary chemokine levels after burn injury in aged mice. *35th Annual Autumn Immunology Conference* (2006), Chicago, IL.
12. **Nomellini V**, Gomez CR, Kovacs EJ. Pulmonary neutrophil accumulation after burn injury is exacerbated with age. *30th Annual Meeting of the Shock Society* (2007), Baltimore, MD.
13. Gomez CR, **Nomellini V**, Baila H, Oshima K, Karavitis J, Ramirez LR, Morgan MO, Kovacs EJ. Reduced hepatic inflammatory response in aged interleukin-6 knockout mice given lipopolysaccharide. *30th Annual Meeting of the Shock Society* (2007), Baltimore, MD.
14. Gomez CR, Karavitis J, Ramirez LR, **Nomellini V**, Kovacs EJ. Interleukin-6 contributes to age-related alteration of cytokine production in macrophages. *Meeting of the Society of Leukocyte Biology* (2007), Cambridge, MA.
15. **Nomellini V**, Gomez CR, Kovacs EJ. Decreased tight junction formation in lungs of aged mice following injury. *Meeting of the Society of Leukocyte Biology* (2007), Cambridge, MA.
16. **Nomellini V**, Gomez CR, and Kovacs EJ. Increased pulmonary inflammation in aged mice after burn correlates with increased neutrophil chemokines. *Annual meeting of the American Burn Association* (2008), Chicago, IL.
17. **Nomellini V**, Weber S. Can Patient Perspectives Help Minimize Hospital Readmissions? *Resident Research Day* (2013), Madison, WI.
18. Jung AD, Goodman MD, Droege C, **Nomellini V**, Johannigman JA, Holcomb JB, Pritts TA. The sooner the better: use of a real time automated bedside dashboard to improve sepsis care. *Academic Surgical Congress* (2018), Jacksonville, FL.
19. Pugh AM, Auteri NJ, Goetzman HS, Caldwell CC, **Nomellini V**. Modeling the Persistent Inflammation, Immunosuppression, and Catabolism Syndrome in Sepsis. *Academic Surgical Congress* (2018), Jacksonville, FL.
20. Winer LK, Pugh AM, Caldwell CC, **Nomellini V**. Ceramide contributes to the neutrophil dysfunction seen in the Persistent Inflammation, Immunosuppression, and Catabolism Syndrome (PICS). *Academic Surgical Congress* (2018), Jacksonville, FL.
21. Pugh AM, Winer LK, **Nomellini V**, Caldwell CC. Source control mitigates hypothermia and prevents lymphopenia in septic mice. *Academic Surgical Congress* (2018), Jacksonville, FL.
22. **Nomellini V**, Auteri NJ, Caldwell CC. Characterizing the profound catabolism in PICS after sepsis. *Annual Conference on Shock* (2018), Scottsdale, AZ.
23. Winer LK, Pugh AM, Caldwell CC, **Nomellini V**. Splenic neutrophils may serve as the primary responders to lung infection during Persistent Inflammation, Immunosuppression and Catabolism Syndrome (PICS). *Annual Conference on Shock* (2018), Scottsdale, AZ.
24. Caldwell CC, Pugh AM, **Nomellini V**. Hypothermia in a murine model of burn injury and infection and impact on immunity. *Annual Conference on Shock* (2018), Scottsdale, AZ.
25. Auteri NJ, Pugh AM, Beckmann N, **Nomellini V**, Caldwell CC. Sphingosine: A novel antimicrobial for sepsis. *Summer Undergraduate Research Fellowship meeting* (2018), University of Cincinnati, Cincinnati, OH.
26. Winer LK, Pugh AM, Caldwell CC, **Nomellini V**. Altered neutrophil phenotypes in a murine model of persistent inflammation, immunosuppression, and catabolism syndrome. *American College of Surgeons* (2018), Boston, MA.
27. Winer LK, Xia BT, Gulbins E, **Nomellini V**, Caldwell CC. Amitriptyline attenuates inflammation and coagulopathy in a murine model of sepsis. *4th International Workshop on the Molecular Medicine of Sphingolipids* (2018), Tel Aviv, Israel.

28. **Nomellini V**, Rice T, Caldwell CC. Sphingosine Rescues Aged Mice from Pneumonia. *4th International Workshop on the Molecular Medicine of Sphingolipids* (2018), Tel Aviv, Israel.
29. Beckmann N, **Nomellini V**, Caldwell CC. *Immunology Retreat* (2018), University of Cincinnati, Cincinnati, OH.
30. Coleman CR, Garber PM, Droege ME, Philpott CD, Hanseman DJ, **Nomellini V**, Droege CA. Prevention of chronic pain with the use of continuous infusion ketamine in acute trauma-related pain. *American College of Clinical Pharmacy Global Conference* (2018), Seattle, WA.
31. Winer LK, Goodman MD, Caldwell CC, **Nomellini V**. Coagulopathy: putting another “C” in PICS. *American Surgical Congress* (2019), Houston, TX.
32. Winer LK, Pugh AM, **Nomellini V**, Caldwell CC. Hypothermia induces lymphocyte apoptosis and dysfunction in vitro. *American Surgical Congress* (2019), Houston, TX.
33. Baker JE, Niziolek GE, Elson N, Pugh AM, **Nomellini V**, Makley AT, Pritts TA, Goodman MD. Optimizing lower extremity duplex ultrasound screening after injury. *American Surgical Congress* (2019), Houston, TX.
34. Levinsky N, Kassam A, Opoka A, Pritts, TA, **Nomellini V**, Wong H, Alder M. Fluctuation of the olfactomedin-4 positive neutrophil subset in adult blunt trauma patients. *Annual Conference on Shock* (2019), Coronado, CA.
35. Beckmann N, Caldwell CC, **Nomellini V**. Neutrophil chemotaxis after burn injury is impaired by ceramide. *Annual Conference on Shock* (2019), Coronado, CA.
36. Huber F, Beckmann N, **Nomellini V**, Hanschen Marc, Caldwell CC. Persistent CD4+ T cell suppression after burn injury may be mediated by immature reticulocytes. *Annual Conference on Shock* (2019), Coronado, CA.
37. **Nomellini V**, Winer LK, Beckmann N, Caldwell CC. Murine PICS develops regardless of age or antibiotic administration. *Annual Conference on Shock* (2019). Coronado, CA.
38. Salyer C, Beckmann N, Verschoor A, **Nomellini V**, Caldwell CC. Adaptive immunity induction via immune complex endocytosis by splenic dendritic cells in burn injury. *American Surgical Congress* (2020), Orlando, FL.
39. Bercz AP, Singer KE, Morris MC, Hanseman D, **Nomellini V**, Pritts TA, Makley AT, Goodman, MD. Emergent splenectomy increases risk of sustained thrombocytosis compared to elective cases. *American Surgical Congress* (2021), Virtual Meeting.
40. Vaysburg DM, Sengupta S, Caldwell CC, **Nomellini V**. Immunophenotyping in chronic critical illness. *Annual Conference on Shock* (2021), Virtual Meeting.
41. Sengupta S, Vaysburg DM, **Nomellini V**. Personalized immune-targeting therapy to reverse immunosuppression in sepsis. *Annual Conference on Shock* (2021). Virtual Meeting.
42. Remy KE, Brakenridge S, Turnbull I, Mazer MB, Bergmann CB, Nelson C, Dirain MLS, Ungaro RF, Gould R, Gupta P, Goetzman H, Loftus TJ, McGonagill PW, Efron PA, Griffith T, Badovinac VP, **Nomellini V**, Hotchkiss RS, Moldawer LL, Caldwell CC. Functional immune phenotyping predicts sepsis outcomes. *Annual Conference on Shock* (2021). Virtual Meeting.
43. Wallen TE, Elson NC, Singer KE, Hayes HV, Salvator A, **Nomellini V**, Pritts TA, Goodman MD. Tracheostomy decreases continuous sedation and analgesia requirements. Oral Presentation. *American College of Surgeons Scientific Forum* (2021). Virtual Meeting.
44. Baucom MR, Nathwani JN, Salvator A, Droege C, Makley A, Tsuei BT, Goodman MD, **Nomellini V**. Evaluating the utility of high sensitivity troponin in blunt cardiac injury. Oral Presentation. *American Surgical Congress* (2022), Orlando, FL.

45. Vaysburg DM, Sengupta S, Caldwell CC, **Nomellini V**. Characterizing immunophenotypes in chronic critical illness. *Annual Conference on Shock* (2022), Toronto, Canada.
46. Caldwell CC, Bourne M, **Nomellini V**, Thao E, Xu J, Nelson C, Gupta P, Griffith T, MCGonagill PW, Silva EE, Heidarian M, Badovinac V, Mazer M, Remy K, Turnbull I, Hotchkiss RS, Brackenridge SC, Loftus T, Efron PA, Moldawer L. Predicting outcomes in critically ill patient cohorts using ELISpot. *Annual Conference on Shock* (2022), Toronto, Canada.
47. Sengupta S, Vaysburg DM, **Nomellini V**. Evaluating targeted and timely immune therapy to reverse immunosuppression in sepsis. *Annual Conference on Shock* (2022), Toronto, Canada.
48. Sisak S, Horn CB, Hyatt D, Seitz AP, Droege CA, **Nomellini V**, Tsuei BJ, Goodman MD. Early protected catheter lavage does not predict ventilator-associated pneumonia in trauma patients. *American Surgical Congress* (2023), Houston, TX.

