

**SCOTT A. KOESELL, M.D., PH.D.**

**CAMPUS ADDRESS**

Department of Pathology and Microbiology  
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**EDUCATION**

University of Nebraska Medical Center, Omaha, NE  
Doctor of Medicine 2000 - 2007

University of Nebraska Medical Center, Omaha, NE  
Doctor of Philosophy (Pathology and Microbiology) 2000 - 2005  
Dissertation: The Biochemical Investigation of the *Staphylococcus aureus*  
primase.

University of South Dakota, Vermillion, SD  
Bachelor of Science 1996 - 2000  
Chemistry

**POST-DEGREE TRAINING**

University of Minnesota, Minneapolis, MN  
Fellowship, Transfusion Medicine and Blood Banking 2011-2012

University of Nebraska Medical Center, Omaha, NE  
Residency, Anatomic and Clinical Pathology 2007-2011

**ACADEMIC APPOINTMENT**

University of Nebraska Medical Center, College of Medicine 2017-present  
Department of Pathology and Microbiology  
Associate Professor

University of Nebraska Medical Center, College of Medicine 2012-2017  
Department of Pathology and Microbiology  
Assistant Professor

**CERTIFICATIONS AND LICENSES**

American Board of Pathology  
Anatomic Pathology 2011  
Clinical Pathology 2011  
Transfusion Medicine and Blood Banking 2012  
Physician License, State of Nebraska (#26077)

## HOSPITAL APPOINTMENTS

Kearney Regional Medical Center, Kearney, NE Medical Director, Laboratory Services	2017-present
Nebraska Medicine, Nebraska Medical Center, Omaha, NE Medical Director, Division of Transfusion and Tissue Services	2015 - present
Nebraska Medicine, Nebraska Medical Center, Omaha, NE Medical Director, Coagulation Services	2015 - present
Nebraska Medicine, Nebraska Medical Center, Omaha, NE Medical Director, Apheresis Services	2015 - present
Nebraska Medicine, Bellevue Medical Center, Omaha, NE Medical Director, Blood Bank	2012 - 2016
Nebraska Medicine, Nebraska Medical Center, Omaha, NE Assistant Medical Director, Division of Transfusion and Tissue Services	2012 - 2014

## CONSULTING POSITIONS

Scynexis, Inc.	2017 –present
Ortho Clinical Diagnostics, Advisory Board	2015 – 2016
Novo-Nordisk, Advisory Board	2015
Alexion Pharmaceuticals	2017-present

## HONORS AND AWARDS

Alpha Omega Alpha Medical Society	2006
Chief Resident, University of Nebraska Medical Center, Department of Pathology	2010-2011

## MEMBERSHIPS IN PROFESSIONAL SOCIETIES

AABB (formerly the American Association of Blood Banks) Transfusion Transmitted Disease Committee	2013-present
American Board of Pathology Maintenance of Certification Program Unit	2013-present
Cellular Therapy Subsection	2013-present
Ebola Working Group	2014-2015
Arbovirus Working Group	2016-present
Cellular Therapy Standards Committee, TTD Liaison	2016-present
Transfusion Service, Cellular Therapy, Molecular testing assessor	2015-present
American Society for Apheresis (ASFA)	
College of American Pathologist (CAP)	
Nebraska Association of Pathologists (NAB)	
American Society for Clinical Pathology (ASCP)	
Academy of Clinical Laboratory Physicians and Scientists (ACLPS)	

## ORGANIZATIONAL COMMITTEE ASSIGNMENTS

Transfusion Committee, Nebraska Medicine (Chair: Phyllis Warkentin)	2012 – present
Transfusion Committee, Bellevue Medical Center (Chair: Scott Koepsell)	2012–present
Nebraska Health Network, Lab Utilization Committee (Chair: James Wisecarver)	2015– present
Ongoing Professional Practice Evaluation Committee (Chair: Dr. Fedderson)	2016–present
Resident Education Committee, UNMC Department of Pathology	2012-present

## PRESENTATIONS (INVITED LECTURES)

Guest Lecturer, Heart of America Association of Blood Banks Annual Meeting, "Update on Transfusion-Transmitted Diseases" 4/18/17, Kansas City, MO

Guest Lecturer, AABB Zika Symposium, "Analysis of FDA Zika Guidance on the HCT/P Industry" Washington, DC 6/10/2016

Guest Lecturer, Academy of Clinical Laboratory Physicians and Scientists, "Ebola: Laboratory Lessons Learned" Birmingham, AL 6/4/2016

Guest Lecturer, Mary Lanning Hospital, "Evidence Based Transfusion Guidelines" Hastings, NE 5/2/2016

Guest Lecturer, American Red Cross Trends in Transfusion Seminar, "Ebola: Laboratory Lessons Learned" Saint Paul, MN 4/14/2016.

Audioconference (international webinar), AABB, "Life on the Front Lines of Ebola: Creation of a National Inventory of Ebola Convalescent Plasma" 3/30/2016.

Session Speaker, AABB Annual Meeting "Convalescent Plasma: Emerging Applications" Anaheim, CA 10/26/2015.

Guest Lecturer, American Red Cross Fall Seminar, "The Special Role of Laboratory and Transfusion Medicine in Treating Ebola Virus Disease" Omaha, NE 10/15/2015

Guest Lecturer, Wisconsin Association of Blood Banks Annual Meeting, "The Special Role of Laboratory and Transfusion Medicine in Treating Ebola Virus Disease" Madison, WI. 9/16/2015

Guest Lecturer, Heart of America Association of Blood Banks Annual Meeting, "Ebola virus disease and transfusion medicine" 4/21/15, Kansas City, MO

Guest Lecturer, South Dakota Academy of Emergency Physicians Annual Meeting, "Transfusion in the Emergency Department" 3/7/2015, Sioux Falls, SD

Audioconference (international webinar), AABB, "Ebola and Transfusion Medicine" 2/4/2015

Grand Rounds, Mercy Hospital, Sioux City, IA "Patient Blood Management" 1/13/2015

Hot Topic Presentation, AABB National Meeting, Philadelphia, PA "Ebola and Transfusion Medicine" 10/27/2014

Guest Lecturer, Regional Pathology Seminar, Shenandoah, IA "Patient Blood Management/." 3/31/2014.

Guest Lecturer, American Society for Clinical Laboratory Science-NE-Great plains and IA Spring Laboratory Meeting, Omaha, NE "Blood utilization: Deputizing laboratory staff." 2014.

Guest Lecturer, Regional Pathology Seminar, Grand Island, NE "Emerging Molecular Strategies for Difficult Crossmatches." 9/10/2013

Research Seminar, Department of Chemistry, University of South Dakota, Vermillion, SD “Mass spectrometry in the clinical laboratory.” 2/11/2013

Grand Rounds, Department of Family Medicine, University of Nebraska Medical Center, Omaha, NE “Evidence-based blood utilization guidelines.” 11/14/2012

Grand Rounds, Department of Pediatrics, Saint Louis University, Saint Louis, MO “Emerging Umbilical Cord Blood Applications.: 2/15/2012

## PUBLICATIONS

1. Lintel NJ, Luebker SA, Lele SM, Koepsell SA. “MVP Immunohistochemistry is a Useful Adjunct in Distinguishing Leiomyosarcoma from Leiomyoma and Leiomyoma with Bizarre Nuclei.” *Hum Pathol.* 2018. *In press.*
2. Luebker SA, Zhang W, Koepsell SA. “Comparing the genomes of cutaneous melanoma tumors to commercially available cell lines; *Oncotarget.* 2017;8:114877-114893.
3. Dunbar NM, Yazer MH, et al. “Safety of the use of group A plasma in trauma: the STAT study.” *Transfusion.* 2017;57(8):1879-1884.
4. Cox JL, Shunkwiler SM, Koepsell SA. “Requirement for a Pathologist’s Second Signature Limits Inappropriate Inpatient Thrombophilia Testing.” *Lab Med.* 2017; 48(4):362-366.
5. Lintel NJ, Brown DK, Schafer DT, Tsimba-Chitsva FM, Koepsell SA, Shunkwiler SM. “Use of standard laboratory methods to obviate routine dithiothreitol treatment of blood samples with daratumumab interference.” *Immunohematology.* 2017;33:22-26.
6. Koepsell SA, Winkler AM, Roback JD. “The role of the laboratory and transfusion service in the management of Ebola Virus Disease.: *Transfusion Medicine Reviews.* 2016 Nov 16. pii: S0887-7963(16)30139-0. doi: 10.1016/j.tmr.2016.11.002.
7. Luebker SA, Koepsell SA. “Optimization of urea based protein extraction from formalin-fixed paraffin-embedded tissue for shotgun proteomics.” *Int J Proteomics.* 2016;2016:4324987. Doi:10.1155/2016/4324987.
8. Murer LM, Pirruccello S, Koepsell SA. “Rivaroxaban Therapy is Associated With False-Positive Lupus Anticoagulant Screening and Confirmatory Assays” *Lab Med.* 2016 Nov;47(4):275-278.
9. Cox JL, Koepsell SA, Shunkwiler S. “Therapeutic plasma exchange and pregnancy: a case report and guidelines for performing plasmapheresis in a pregnant patient” *J Clin Apher.* 2016 May 3. doi:10.1002/jca.21468.
10. Cox JL, Talmon GA, Koepsell SA. “Human Hemochromatosis Protein (HFE) Immunoperoxidase Stain Highlights Choriocarcinoma within Mixed Germ Cell Tumors.” *Disease Markers.* 2016; Mar; 5236482. doi:10.1155/2016/5236482.
11. Luebker SA, Wojtkiewicz M, Koepsell SA. “Two methods for proteomic analysis of formalin-fixed, paraffin embedded tissue result in differential protein identification, data quality, and cost.” *Proteomics.* 2015 Nov;15(21):3744-53.

12. Winkler AM, Koepsell SA. "The Use of Convalescent Plasma to Treat Emerging Infectious Diseases: Focus on Ebola Virus Disease." *Curr Opin Hematol*. 2015 Nov;22(6):521-6.
13. Quist E, Koepsell SA. "Autoimmune Hemolytic Anemia and Red Blood Cell Autoantibodies." *Arch Pathol Lab Med*. 2015 Nov;139(11):1455-8.
14. Kraft C, Hewlett AL, Koepsell SA, et al. "The Use of TKM-100802 and convalescent plasma in 2 patients with Ebola virus disease in the United States." *Clin Infect Dis*. 2015 Aug 15;61(4):496-502.
15. Koepsell SA, Grant W, Landmark JD. "Autoantibodies to red blood cell antigens occur frequently with hemolysis among small bowel transplant recipients: Clinical implications and management." *Pediatr Transplant*. 2015 Feb;19(1):62-7.
16. Koepsell SA, Burright-Hittner KB, Landmark JD. "Evans' syndrome in a pediatric liver transplant recipient with an autoantibody with specificity for the KEL4(Kp<sup>b</sup>) antigen." *Immunohematology*. 2014;30(1):14-7.
17. Koepsell SA, Le M, Lassig AA, Lindgren B, Cohn C, Khariwala SS. "Transfusion of aged blood in head and neck free flap surgery: perioperative outcome analysis." *J Otol Rhinol*. 2013 Dec; 3:1.
18. Koepsell SA, Landmark JD. "Passenger lymphocyte syndrome: use of archived donor organ biopsy obtained at the time of transplantation for diagnosis." *Am J Trans*. 2013 Aug; 13(8): 2227.
19. Koepsell SA, Miller JS, McKenna Jr DH. "Natural killer cells: a review of manufacturing and clinical utility." *Transfusion*. 2013 Feb; 53(2): 404-10.
20. Koepsell SA, Kadidlo DM, Fautsch S, McCullough J, Klingemann H, Wagner JE, Miller JS, McKenna Jr DH. "Successful "in-flight" activation of natural killer cells during long-distance shipping." *Transfusion*. 2013 Feb; 53(2): 398-403.
21. Koepsell SA, Hinrichs SH, Iwen P. "Applying a Real-Time PCR Assay for *Histoplasma capsulatum* to Clinically-Relevant Formalin-Fixed Paraffin-Embedded Human Tissue." *J Clin Micro*. 2012 Oct; 50(10):3395-7.
22. Koepsell SA, Anderson DR, Radio SJ. "Parvovirus B19 is a bystander in adult myocarditis." *Cardiovascular Pathology*. 2012 Nov; 21(6): 476-81.
23. Zantek N, Koepsell SA, Tharp D and Cohn C. "The Direct Antiglobulin Test (DAT): A Critical Step in the Evaluation of Hemolysis." *Am J Hematol*. 2012 Jul;87(7):707-9.
24. SA Koepsell, GA Talmon. "Light Microscopic Diagnosis of Microvillus Inclusion Disease on Colorectal Specimens Using CD10." *Am J Surg Path*. 2010 July; 34(7): 970-972.
25. SA Koepsell, AG Freifeld, AR Sambol, RD McComb and SA Kazmi. "Seronegative Naturally-Acquired West Nile Virus Encephalitis in a Renal and Pancreas Transplant Recipient." *Transplant Infectious Disease*. 2010 Oct; 12(5): 459-64.
26. SA Koepsell, MA Larson, CA Frey, SH Hinrichs and MA Griep. "Staphylococcus aureus primase has higher initiation specificity, interacts with single-stranded DNA stronger, but is less stimulated by its helicase than *Escherichia coli* primase." *Mol Microbiol*. 2008 June; 68(6): 1570-82.

27. MA Griep, S Blood, MA Larson, SA Koepsell and SH Hinrichs. "Myricetin inhibits Escherichia coli DnaB helicase but not primase." *Bioorg Med Chem*. 2007 Nov 15;15(22):7203-8.
28. SA Koepsell, MA Larson, MA Griep and SH Hinrichs. "Staphylococcus aureus helicase but not Escherichia coli helicase stimulates S. aureus primase activity and maintains initiation specificity." *J Bacteriol*. 2006 Jul;188(13):4673-80.
29. RJ Olsen, WM Lydiatt, SA Koepsell, D Lydiatt, SL Johansson, S Naumann, JA Bridge, JR Neff, SH Hinrichs and SR Tarantolo. "C-erb-B2 (HER2/neu) expression in synovial sarcoma of the head and neck." *Head Neck*. 2005 Oct;27(10):883-92.
30. SA Koepsell, S Hanson, SH Hinrichs and MA Griep. "Fluorometric assay for bacterial primases." *Anal Biochem*. 2005 Apr 15;339(2):353-5.
31. S Koepsell, D Bastola, SH Hinrichs and MA Griep. "Thermally denaturing high-performance liquid chromatography analysis of primase activity." *Anal Biochem*. 2004 Sep 15;332(2):330-6.
32. RJ Olsen, J Mazlo, SA Koepsell, TW McKeithan and SH Hinrichs. "Minimal structural elements of an inhibitory anti-ATF1/CREB single-chain antibody fragment (scFv41.4)." *Hybrid Hybridomics*. 2003 Apr;22(2):65-77.
33. CB Toris, SA Koepsell, ME Yablonski and CB Camras. "Aqueous humor dynamics in ocular hypertensive patients." *J Glaucoma*. 2002 Jun;11(3):253-8.

## BOOK CHAPTERS

Scott A Koepsell. "Chapter Title: Cellular Therapy and Transfusion Medicine." In *Modern Blood Banking and Transfusion Practices*, 7<sup>th</sup> Ed. (in press).

Eapen K Jacob and Scott A Koepsell. "The Collection and Processing of Hematopoietic Stem Cells." In the *AABB Technical Manual*, 19<sup>th</sup> Ed.(2017).

Scott A Koepsell, Eapen K Jacob; and David H. McKenna. "The Collection and Processing of Hematopoietic Stem Cells." In *Core Principles in Cellular Therapy* (2014) and the *AABB Technical Manual*, 18<sup>th</sup> Ed.(2014).

## ABSTRACTS

Greenwood MP, Luebker S, Lazenby A, Koepsell SA. "Proteomic Analysis of Formalin-Fixed Paraffin-Embedded Metastatic Well-Differentiated Pancreatic Neuroendocrine Tumors Yields Valuable Insights into Tumorigenesis, Biomarkers, and Therapeutic Targets" *USCAP*, 2016, Seattle, WA.

Cox JL, Talmon GA, Koepsell SA. "Human Hemochromatosis Protein (HFE) Immunoperoxidase Stain Highlights Choriocarcinoma within Mixed Germ Cell Tumors." *USCAP*, 2016, Seattle, WA.

AM Winkler, S Koepsell, E Weiner, T Landess, JL Hanover, L Corash. "Use of Convalescent Plasma Collected From Ebola Virus Disease (EVD) Survivors Treated With INTERCEPT Blood System for Pathogen Inactivation (PI) To Facilitate Passive Immune Therapy." ASFA, 2015, San Antonio, TX.

Koepsell S, Huang D, Dal Cin P, Fletcher CDM, Bridge JA. "Custom-designed FISH Probe Sets for the Evaluation of Extraskeletal Myxoid Chondrosarcoma" European Congress of Pathology, 2014, London, UK.