

1. TITLE: IL-7 MODULATES CENTRAL AND EFFECTOR MEMORY T CELL FUNCTION IN SEPSIS
  - AUTHORS: Caleb Y. Kim, Vladimir badovinac, Scott Brakenridge, Charles C.Caldwell, Philip A. Efron, Richard Hotchkiss, Monty Mazer, Lyle L. Moldawer, Kenneth Remy, Thomas S.Griffith
2. TITLE: DECODING SEPSIS IN ADAPTIVE IMMUNE CELLS: UNRAVELING DIVERGENT MOLECULAR SIGNATURES IN RAPID RECOVERY AND CHRONIC CRITICAL ILLNESS
  - AUTHORS: Leandro Balzano-Nogueira<sup>1</sup>, Evan L. Barrios<sup>2</sup>, John Leary<sup>3</sup>, Valerie E. Polcz<sup>2</sup>, Jaimar Rincon<sup>2</sup>, Todd Brusko<sup>1</sup>, Clayton Mathews<sup>1</sup>, Michael P. Kladde<sup>4</sup>, Rhonda Bacher<sup>3</sup>, Lyle L. Moldawer<sup>2</sup>, Philip A. Efron<sup>2</sup>, Maigan Brusko<sup>1</sup>
3. TITLE: TRANSCRIPTOMIC EVIDENCE THAT CRITICAL ILLNESS INDUCES AN EARLY EXPANSION OF MULTIPLE MYELOID IMMUNE SUPPRESSIVE SUBSETS
  - AUTHORS: Jeremy A. Balch , Dayuan Wang , Ruoxuan Wu , Valerie E. Polcz ,Evan L. Barrios , Charles C. Caldwell , Richard Hotchkiss , Kenneth E. Remy , Scott Brakenridge , Vladimir badovinac , Thomas S. Griffith , Tyler J. Loftus , Feifei Xiao , Lyle L. Moldawer , Philip A. Efron , MuxuanLiang , Guoshuai Ca
4. Title: TEMPORAL CHANGES IN INNATE AND ADAPTIVE IMMUNITY DURING SEPSIS AS DETERMINED BY ELISPOT
  - AUTHORS: Richard Hotchkiss, Jacqueline Unsinger , Dale Osborne , Andrew H. Walton , Ethan T. Han , Lauren Sheets , Monty Mazer , Kenneth Remy , Thomas S. Griffith , Vladimir badovinac , Scott Brakenridge , Isaiah R. Turnbull , Philip A. Efron , Lyle L.Moldawer , Charles C. Caldwell
5. Title: ENDOTYPING SEPTIC PATIENTS WITH A FUNCTIONAL IMMUNE ASSAY
  - AUTHORS: Ellen Becker, Adam D. Price, Monty Mazer, Kenneth Remy,Scott Brakenridge, Philip A. Efron, Muxuan Liang, Tyler J. Loftus, Patrick McGonagill, Michael D.Goodman, Thomas S. Griffith, vladimir badovinac, Richard Hotchkiss, Lyle L. Moldawer, Charles C.Caldwel
6. EARLY COMPOSITE SCORE TO PREDICT LONG-TERM PHYSICAL FUNCTION IN SURGICAL SEPSIS SURVIVORS
  - Authors: Yi Lin<sup>1,2†</sup>, Rezvan Ghaderpanah<sup>1†</sup>, c, Ivanna Rocha<sup>3</sup>, Muxuan Liang<sup>2</sup>, Tyler J. Loftus<sup>3</sup>, Hjalmar R. Bouma<sup>4</sup>, Peter E. Morris<sup>6</sup>, Philip A. Efron<sup>3</sup>, Robert T. Mankowski<sup>1,2,4\*</sup>
7. SEVERE TRAUMA ALTERS MACROPHAGE-ERYTHROBLAST INTERACTION IN BONE MARROW ERYTHROBLASTIC ISLANDS

8. Title: WHOLE-BLOOD STIMULATION WITH LPS, BCG AND EFFECTS OF AGE ON INFLAMMATORY CYTOKINE PRODUCTION IN NEONATES
  - Authors: Valerie E. Polcz, Jaimar C. Rincon, Evan L. Barrios, Philip A. Efron, Lyle L. Moldawer, Shawn D. Larson
  
9. Title: PLASMA EXTRACELLULAR VESICLE MIRNA CARGO AND RESULTANT MACROPHAGE IMMUNE REPROGRAMMING ARE ASSOCIATED WITH POOR OUTCOMES AFTER SEPSIS
  - Authors: Arielle Ayotte<sup>1</sup>, Denise A. Hernandez<sup>1</sup>, Madelyn P. Smythe<sup>1</sup>, Ivanna Rocha<sup>1</sup>, Shannon Wallet<sup>2</sup>, Ricardo Ungaro<sup>1</sup>, Philip A. Efron<sup>1</sup>, Lyle L. Moldawer<sup>1</sup>, Robert Maile<sup>1</sup>
  
10. Title: SEPSIS INDUCES PERSISTENT SEX-DIMORPHIC IMMUNE ACTIVATION AND EXACERBATES AMYLOID  $\beta$  PATHOLOGY IN AN AD MOUSE MODEL
  - Authors: Quan Vo, Dina C. Nacionales, Carmelina Gorski, Karen N. McFarland, Gwoncheol Park, Evan Barrios, Valerie Polcz, Letitia Bible, Alicia Mohr, Thomas Foster, Gemma Casadesus, Ravinder Nagpal, Lyle L. Moldawer, Philip A. Efron, Paramita Chakrabarty
  
11. Title: SEX-SPECIFIC DIFFERENCES IN MYELOID-DERIVED SUPPRESSOR CELL MITOCHONDRIAL METABOLISM AFTER SEPSIS"
  - Authors: Evan L. Barrios<sup>1</sup>, Leilani Zeumer-Spataro<sup>1</sup>, Valerie E. Polcz<sup>1</sup>, Leandro Balzano Nogueira<sup>2</sup>, Maigan A. Brusko<sup>2</sup>, Michael P. Kladde<sup>3</sup>, Tyler J. Loftus<sup>1</sup>, Alicia M. Mohr<sup>1</sup>, Lyle L. Moldawer<sup>1</sup>, Philip A. Efron<sup>1</sup>, Clayton E. Mathews<sup>2</sup>
  
12. Title: SINGLE-CELL TRANSCRIPTOME PROFILING REVEALS MYELOID-DERIVED SUPPRESSOR CELL (MDSC) HETEROGENEITY IN MURINE NEONATAL SEPSIS
  - Authors: Jaimar C Rincon, Dayuan Wang, Valerie Polcz, Evan Barrios, Marvin Dirain, Ricardo Ungaro, Dina Nacionales, Feifei Xiao, Guoshuai Cai, Philip A Efron, Lyle L Moldawer, Shawn D Larson
  
13. Title: PLASMA EXOSOMAL CARGO AFTER MULTICOMPARTMENTAL TRAUMA MARKED BY MYODEGENERATIVE MIRNA
  - Authors: Stacey K. Drury, MD<sup>1</sup>; Julia A. Salvo<sup>1</sup>; Kolenkode B. Kannan, PhD<sup>1</sup>; Jennifer A. Munley MD<sup>1</sup>; Letitia E. Bible, MD<sup>1</sup>; Philip A. Efron MD<sup>1</sup>; Shannon Wallet PhD<sup>2</sup>; Robert Maile PhD<sup>1</sup>; Alicia M. Mohr, MD<sup>1</sup>
  
14. ENTERO-SEPTIC KLEBSIELLA PNEUMONIAE INFECTION AND PATHOBIOME INDUCE NEUROINFLAMMATORY AND COGNITIVE IMPAIRMENTS IN 3X TG MICE

15. Title: MULTIMODAL NUCLEAR FACTOR-ERYTHROID-2-RELATED FACTOR (NRF2) THERAPY IN THE CONTEXT OF MAMMALIAN TARGET OF RAPAMYCIN (MTOR) INHIBITION REGULATES IMMUNE REPROGRAMMING IN RESPONSE TO INFECTION EARLY AFTER BURN AND INHALATION INJURY
- Authors: Matthew D. Alves<sup>1</sup>, Ryan A. Clark<sup>2</sup>, Denise A. Hernandez<sup>1</sup>, Madelyn P. Smythe<sup>3</sup>, Shannon Walle<sup>3</sup>, Benjamin G. Keselowsky<sup>2</sup>, Robert Maile<sup>1</sup>
16. Title: HUMAN MESENCHYMAL STEM CELL EXTRACELLULAR VESICLES REPROGRAM IMMUNE SIGNALING PATHWAYS IN BURN PATIENT IMMUNE CELLS
- Authors: Denise A. Hernandez<sup>1</sup>, Genesis Rodriguez<sup>1</sup>, Madelyn P. Smythe<sup>2</sup>, Micah L. Willis<sup>2</sup>, Matthew F. Warchol<sup>2</sup>, Ian R. Driscoll<sup>1</sup>, Shannon Walle<sup>2</sup>, Robert Maile<sup>1</sup>
17. Title: EXTENT OF BURN INJURY AND ASSOCIATIONS WITH EARLY MYELOID AND LYMPHOIDACTIVATION IN PEDIATRIC BURN PATIENTS
- Authors: Valerie E. Polcz, Jaimar C. Rincon, Evan L. Barrios, Philip A. Efron, Lyle L. Moldawer, Shawn D. Larson