1. Lu C. -"Utilizing plasma proteomics to identify plasma biomarkers in pediatric patients undergoing cardiopulmonary bypass". 2011 Medical student research Symposium, Penn State Hershey college of Medicine, April 15, 2011. [Poster Presentation] [Recognized as one of the top medical student research projects of the Class of 2011].

2. Akif Ündar, PhD. Translational Research in Pediatric ECLS Systems: 2011 Update. *Presented at the Seventh International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, The Children's Hospital of Philadelphia, Philadelphia, PA, May 5-7, 2011.* [Invited Lecture]

3. Deborah Reed-Thurston, MD, Akif Ündar, PhD, Kim Kopenhaver Haidet, PhD, NNP-BC and Jeffrey Shenberger, MD. Extracorporeal Life Support (ECLS) Technology Survey: Recent changes in 2011. *Presented at the Seventh International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, The Children's Hospital of Philadelphia, Philadelphia, PA, May 5-7, 2011.* [Slide Presentation]

4. Arash Salavitabar, BS, Feng Qiu, MD, Allen Kunselman, MA, Akif Ündar, PhD. Evaluation of The Quadrox-i Neonatal Oxygenator with An Integrated Arterial Filter. *Presented at the Seventh International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, The Children's Hospital of Philadelphia, Philadelphia, PA, May 5-7, 2011.* [Slide Presentation]

5. Kiana Aran, Alex Fok, Larwence A. Sasso, Neal Kamdar, Yulong Guan, Qi Sun, Akif Ündar and Jeffrey D. Zahn. Microfiltration Platform for Continuous Blood Plasma Protein Extraction from Whole Blood during Cardiac Surgery. *Presented at the Seventh International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, The Children's Hospital of Philadelphia, Philadelphia, PA, May 5-7, 2011.* [Poster Presentation]

6. Feng Qiu, MD, Joseph B. Clark, MD, Allen R. Kunselman, MS, Akif Ündar, PhD, John L. Myers, MD. Hemodynamic Evaluation of Arterial and Venous Cannulae Performance in a Simulated Neonatal Extracorporeal Life Support Circuit. *Presented at the Seventh International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, The Children's Hospital of Philadelphia, Philadelphia, PA, May 5-7, 2011.* [Poster Presentation]

7. Sameer Khan, BS, Rahul Vasavada, MS, Feng Qiu, MD, Allen R. Kunselman, MS, Akif Ündar, PhD. Extracorporeal Life Support Systems: Alternative vs. Conventional Circuits. *Presented at the Seventh International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, The Children's Hospital of Philadelphia, Philadelphia, PA, May 5-7, 2011.* [Poster Presentation]

8. Feng Qiu, MD, Sameer Khan, BS, Jonathan Talor, BSE, Allan R. Kunselman, MS, Akif Ündar, PhD. Evaluation of two pediatric polymethyl pentene membrane oxygenators with pulsatile and non-pulsatile perfusion. *Presented at the Seventh International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary*

Perfusion, The Children's Hospital of Philadelphia, Philadelphia, PA, May 5-7, 2011. [Poster Presentation]

9. Lawrence A Sasso, Akif Ündar, Jeffrey D. Zahn. Multiplexed Real-Time Monitoring of Systemic Inflammation during Mechanical Circulatory Support. *Presented at the Seventh International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, The Children's Hospital of Philadelphia, Philadelphia, PA, May 5-7, 2011.* [Poster Presentation]

10. Alkan-Bozkaya T., Akçevin A.,Türkoğlu H., Paker T., Ersoy C., Ündar A. Aorticopulmonary window : Surgical Correction of in Neonatal period and results. *Presented at the Seventh International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, The Children's Hospital of Philadelphia, Philadelphia, PA, May 5-7, 2011.* [Poster Presentation]

11. Alkan-Bozkaya T, Türkoğlu H, Akcevin A, Paker T, Ersoy C, Bayer V, Aytac A. Surgery For Coronary Arterio-Venous Fistula : Indication In Childhood, Treatment and Results. *Presented at the Seventh International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, The Children's Hospital of Philadelphia, Philadelphia, PA, May 5-7, 2011.* [Poster Presentation]

12. Alkan-Bozkaya T, Türkoğlu H, Akcevin A, Paker T, Aytac A, Ündar A. Corrected Transposition of the Great Arteries: Surgical Approach – a review. *Presented at the Seventh International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, The Children's Hospital of Philadelphia, Philadelphia, PA, May 5-7, 2011.* [Poster Presentation]

13. Alkan-Bozkaya T., Akçevin A.,Türkoğlu H., Paker T., Ersoy C., Ündar A. Surgical approach to the primary heart tumors and the results: 36 cases. *Presented at the Seventh International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, The Children's Hospital of Philadelphia, Philadelphia, PA, May 5-7, 2011.* [Poster Presentation]

14. Türkoğlu H, Alkan-Bozkaya T, Akalin F. Case: Rhabdomyoma in an Infantil Child with No Tuberous Sclerosis Definition, Clinical Presentation and Surgical Approach. *Presented at the Seventh International Conference on Pediatric Mechanical Circulatory Support Systems and Pediatric Cardiopulmonary Perfusion, The Children's Hospital of Philadelphia, Philadelphia, PA, May 5-7, 2011.* [Poster Presentation]

15. Ündar A. Translational research on pediatric/neonatal ECLS systems: 2011 update. .*Presented at* the *Third Scientific Meeting of the World Society for Pediatric and Congenital Heart Surgery,* Swissotel the Bosphorus, Istanbul, June 23-26, 2011. [Invited lecture].

16. Ündar A. The newest pediatric ECLS systems. .*Presented at* the *Istanbul symposiums on pediatric extracorporeal life support systems,* Swissotel the Bosphorus, Istanbul, Turkey, June 26, 2011.

17. Ündar A. Pediatric cardiovascular research results at the Penn State Hesrhey in 2011. .*Presented at* the *Istanbul symposiums on pediatric extracorporeal life support systems,* Swissotel the Bosphorus, Istanbul, Turkey, June 26, 2011.

18. Ündar A. The newest pediatric ECLS systems. Presented at the *Istanbul symposiums on pediatric extracorporeal life support systems,* Istanbul Mehmet Akif Ersoy Thoracic and Cardiovascular Surgery Training and Research Hospital, İstanbul, Turkey, July 23, 2011.

19. Ündar A. Pediatric cardiovascular research results at the Penn state Hesrhey in 2011. Presented at the *Istanbul symposiums on pediatric extracorporeal life support systems,* Istanbul Mehmet Akif Ersoy Thoracic and Cardiovascular Surgery Training and Research Hospital, İstanbul, Turkey, July 23, 2011.

20. Ündar A. The newest pediatric ECLS systems. Presented at the *Istanbul symposiums on pediatric extracorporeal life support systems,* Kartal Kosuyolu Training and Research Hospital, İstanbul, Turkey, 29 July, 2011.

21. Ündar A. Pediatric cardiovascular research results at the Penn state Hesrhey in 2011. Presented at the *Istanbul symposiums on pediatric extracorporeal life support systems,* Kartal Kosuyolu Training and Research Hospital, İstanbul, Turkey, 29 July, 2011.

22. Ündar A. The rationale behind the selection of the ECLS circuit and the most recent survey results about pediatric centers in the US and how they adopt the new ECLS technology? Presented at the *2nd International Pediatric Perfusion Symposium*, Dubai, United Arab Emirates, October 23-25, 2011.

23. Ündar A. Evaluation of neonatal oxygenators with or without integrated arterial filters. Presented at the *2nd International Pediatric Perfusion Symposium*, Dubai, United Arab Emirates, October 23-25, 2011.

24. Akcevin A, Alkan-Bozkaya T, Ündar A. Benefits of pulsatile flow in pediatric cardiac surgery. Presented at the *2nd International Pediatric Perfusion Symposium*, Dubai, United Arab Emirates, October 23-25, 2011.

25. Menon P, Sotiropoulos F, Ündar A., Pekkan K. Device specific analysis of neonatal aortic outflow cannula jet flows for imrpved cardiopulmonary bypass hemosynamics. Will be presented at *the 64th Annual Meeting of the American Physical Society Division of Fluid Dynamics, Baltimore, Maryland*, November 20-22, 2011. [Slide Presentation].

26. Pauliks L, Ündar A. Mechanical circulatory support in children – from bench to bedside. *Presented at the Pediatric Grand Rounds,* Hershey, PA December 13, 2011. [Grand Round Lecture]

27. Ündar A. BIOENGENEERING APPROACHES IN PEDIATRIC CARDIOVASCULAR MEDICINE. Presented at the *Department of Bioengineering, College of Engineering, Marmara University, Istanbul, Turkey,* December 20, 2011 [Invite Lecture/Visiting Professor]

28. Ündar A. NATIONAL PEDIATRIC CARDIOVASCULAR RESEARCH CENTER IN TURKEY: AN UPDATE. Presented at the *Istanbul Symposiums on Neonatal/Pediatric Cardiopulmonary Bypass Procedures, American Hospital, Istanbul, Turkey,* December 17, 2011 [Invite Lecture]

29. Ündar A. IS IT POSSIBLE TO ELIMINATE THE MICROEMBOLI DURING NEONATAL CPB? Presented at the *Istanbul Symposiums on Neonatal/Pediatric Cardiopulmonary Bypass Procedures, American Hospital, Istanbul, Turkey,* December 17, 2011 [Invite Lecture]