

CURRICULUM VITAE

NAME: **ORFANOS, STYLIANOS MD, PhD**
Professor of Critical Care
2nd Critical Care Department
National & Kapodistrian University of Athens (NKUA) Medical School
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PERSONAL:

Home Address: 7, M. Grigoriou St
156 69 Papagou (Athens), Greece
Home Telephone: +30 - 210 821-5158
Date of Birth: 06-October-1955
Place of Birth: Athens, Greece
Citizenship: Greek
Sex: Male
Race: Caucasian
Marital Status: Married, one child
Spouse's Name: Tzanela, Marinella
Date of Marriage: 09-24-1986

EDUCATION:

High School: Lycée Léonin d' Athènes, Athens, Greece 1967-1973
University of Athens School of Medicine, Athens, Greece, 1973-1980;
M.D, 1981
Department of Pharmacology - Endocrinology Section, University of Athens,
Athens School of Medicine, Athens Greece, Research Assistant, 1976-1979
Université PARIS-IV, Faculté de Lettres, Paris, France, (in Athens), 1976-1978
Diplôme d'Etudes Universitaires Générales (D.E.U.G.) en Lettres Modernes
Resident in Medicine, Department of Medicine, Naval Hospital of Crete, Greece,
1981-1982
Resident in Medicine, Department of Medicine, University of Ioannina School of
Medicine, Ioannina Greece, 1985-1986
Board Certified in Internal Medicine, Ioannina Greece, 1986
Post-Doctoral Fellow, Department of Pharmacology & Toxicology, Medical College
of Georgia, Augusta GA, USA, 1986-1989
Ph.D., University of Ioannina School of Medicine, Ioannina Greece, 1989
Visiting Physician-Clinical Fellow, Critical Care Department, McGill University,
Royal Victoria Hospital, Jewish General Hospital, Chest Hospital, Montreal
Quebec, Canada, 1993-1994

FOREIGN LANGUAGES:

Proficient in French and English

PROFESSIONAL:

Academic & Professional Appointments:

Assistant Attending (Registrar), Department of Medicine, Ioannina General Hospital, Ioannina Greece, 1989-1990
Lecturer, Department of Medicine, University of Ioannina School of Medicine, Ioannina Greece, 1990
Instructor, Department of Pharmacology & Toxicology, Medical College of Georgia, Augusta, GA, USA 1990-1993
Assistant Attending (Registrar), Critical Care Department, Evangelismos General Hospital, Athens Greece, 1992-1999
Lecturer, Critical Care Department, NKUA Medical School, Evangelismos Hospital, Athens, Greece, 1995-2002
Visiting Scientist, Vascular Biology Center, Medical College of Georgia, Augusta GA, USA, 1996-2002 (multiple visits)
Assistant Professor, Critical Care Department NKUA Medical School, Evangelismos Hospital, Athens, Greece, 2002-2005
Assistant Professor, 2nd Critical Care Department, NKUA Medical School, Attikon Hospital, Haidari (Athens), Greece, 2003-2009
Member of the Pulmonary Circulation Assembly Program Committee of the American Thoracic Society (ATS), 2003-2006
Visiting Consultant, Center for Pulmonary Vascular Diseases, Jewish General Hospital, McGill University, Montreal Quebec, Canada, June-July 2004
Clinical Co-Director, Pulmonary Hypertension Clinic, Attikon Hospital, Haidari (Athens), Greece, 2004-present
Fellow - Member, Pulmonary Vascular Research Institute (PVRI) 2008-present
Associate Professor of Critical Care & Medicine, NKUA Medical School, 2009-2014
Secretary of the Acute Critical Care Group, European Respiratory Society, February 2009-2012
Visiting Professor, Vascular Biology Center, Medical College of Georgia, Augusta GA, USA. February 2010
Secretary of the Respiratory Intensive Care Assembly, European Respiratory Society - member of the ERS Education Council (originally School Committee), 2013-2016
Professor of Critical Care & Medicine, NKUA Medical School, 2014 – 2018
Professor of Critical Care, NKUA Medical School, 2018 - today
Part-time assignment in the 1st Department of Critical Care -NKUA, Evangelismos Hospital, Athens Greece, 2018-today

Membership in Scientific Societies:

Athens Medical Association
Hellenic (Greek) Society of Critical Care
Hellenic Society for the Study of Pulmonary Hypertension:
-Secretary General 2011-2014
-President 2014-2016

-Member of the board 2018-today
Hellenic Respiratory Society
American Physiological Society
European Respiratory Society:
-Secretary of the ERS Acute Critical Care Group 2009-2012
-Secretary of the ERS Respiratory Intensive Care Assembly & Member of the ERS Education Council, 2013-2016
-Member of the ERS Evaluation Committee 2009-2013
European Society of Intensive Care Medicine
Pulmonary Hypertension Association (PH Physicians and Researchers)
Pulmonary Vascular Research Institute – PVRI
-Member of the PVRI Committee of the Young Clinicians and Scientists (CYCS 2014-2018)
-Member of the PVRI European Task Force

Associate Editor in medical & scientific journals:

ERJ Open Research
Respiratory Research

Editorial Board Member in medical & scientific journals:

Breathe (2013-2016)
Pulmonary Circulation
PVRI Chronicle (2013-2017)
PVRI Review (2012-2013)
Vascular Pharmacology
Guest Editor (S.E. Orfanos et al) Clinical Research in Cardiology Supplements; Vol. 5, Suppl. 2, 2010
Advisory board member, Framingham on pulmonary arterial hypertension 2012
Guest Associate Editor, Can Respir J special issue on Pulmonary Hypertension due to Lung Diseases and/or Hypoxia, 2017

Reviewer for medical & scientific journals:

- i. African Journal of Microbiology Research*
- ii. Biochemical Pharmacology*
- iii. BMC Pulmonary Medicine*
- iv. Critical Care*
- v. Critical Care Medicine*
- vi. Current Drug Targets*
- vii. European Journal of Clinical Investigation*
- viii. European Respiratory Journal*
- ix. General Pharmacology The Vascular System*
- x. Experimental Lung Research*
- xi. Hellenic Journal of Cardiology*
- xii. Intensive Care Medicine*
- xiii. International Journal of Cardiology*
- xiv. International Journal of Case Reports in Medicine*

- xv. *Journal of Infection*
- xvi. *Journal of Internal Medicine*
- xvii. *PLOS One*
- xviii. *Pulmonary Circulation*
- xix. *Pulmonary Medicine*
- xx. *Pulmonary Pharmacology and Therapeutics*
- xxi. *Respiration*
- xxii. *Respiratory Research*
- xxiii. *Therapeutic Advances in Respiratory Disease*
- xxiv. *Therapeutics and Clinical Risk Management*
- xxv. *Stem Cell Research & Therapy*
- xxvi. *Vascular Pharmacology (new title of ix)*
- xxvii. *Pneumon*

International activities

Member of the Pulmonary Circulation Program Committee of the American Thoracic Society, 2003-2006. Abstract Reviewer: 2004-2006

Abstract Reviewer for the Acute Critical Care Group of the European Respiratory Society, 2006-2013

Grant Reviewer για το Joint Research Committee - The Chelsea and Westminster Health Charity and Westminster Medical School Research Trust, UK 2007

Examiner in the oral exams for the European Diploma in Intensive Care Medicine (European Society of Intensive Care Medicine), 2004-2013

Member of the European Respiratory Society Evaluation Committee for Fellowships 2009-2013

Reviewer for the National Institute of Academic Anaesthesia (NIAA) Research Grants, UK, 2009

Reviewer για το Health Research Board (HRB) - National SpR/SR Academic Fellowship Programme, Ireland, 2010

Task Force member of the European Respiratory Society on the HERMES “Harmonised Education in Respiratory Medicine for European Specialists” for training in Respiratory Critical Care 2009-2014

Reviewer for grant proposal για το National Science Center, Poland, 2014

Task Force member of the European Respiratory Society on the HERMES “Harmonised Education in Respiratory Medicine for European Specialists” for training in Adult Respiratory Medicine 2015-2017

Reviewer for the 2015 ESC/ERS European Guidelines on Pulmonary Hypertension

Travel award granted to the abstract *THE RELATIONSHIP BETWEEN PULMONARY BLOOD FLOW AND PULMONARY MICROVASCULAR RECRUITMENT IN SUPINE EXERCISING HUMANS* by SE Orfanos et al, presented at the 6th World Symposium on Pulmonary Hypertension, Nice France, 2018

Author of a blog on Medicine for BMC, entitled: Pulmonary hypertension in the eyes of a clinician and a patient, 2016:

<http://blogs.biomedcentral.com/on-medicine/2016/11/21/pulmonary-hypertension-in-the-eyes-of-a-clinician-and-a-patient/>

Best Abstract Award to the abstract *Pulmonary Capillary Surface Area in Supine Exercising Humans: Demonstration of Vascular Recruitment* by D. Langleben, SE Orfanos et al, presented at the 13th PVRI Annual World Congress on Pulmonary Vascular Disease, Barcelona Catalogna Spain, 2019

Scientific-Meeting Assignments:

Session chairman in International meetings: 18

Session chairman in Greek meetings: 47

Poster session moderator in International meetings: 12 (2 in ATS; 9 in ERS; 1 in other)

Invited speaker (Greek & International meetings, courses, webinars): 128, > 50% on pulmonary hypertension

INTERNATIONAL PUBLICATIONS:

BOOK CHAPTERS & PROCEEDINGS

13 Chapters in Books (one in a textbook on pulmonary hypertension)

Catravas, J.D., Toivonen, H.J., Orfanos, S.E. and Chen, X-L. Endothelial function studies in Pulmonary Vascular Disease. In *"The Diagnosis and Treatment of Pulmonary Hypertension"*, ed. by F.K. Weir, S.L Archer and J.T. Reeves, Futura Publishing Co., New York, pp 95-109, 1992.

Orfanos S.E., Catravas J.D. Metabolic Functions of the Pulmonary Endothelium. In *"Annual of Cardiac Surgery 1993"* ed. by M. Yacoub and J. Pepper, Current Science, London, pp 52-59, 1993.

J.D. Catravas, S.E. Orfanos. Pathophysiologic functions of endothelial angiotensin-converting enzyme. In *"Vascular Endothelium. Physiology, Pathology and Therapeutic Opportunities"* ed by G.V.R. Born and C.J. Schwartz, Schattauer, Stuttgart, pp 193-204, 1997

S.E. Orfanos, L. Zou, J.D. Catravas. Pharmacodynamics, tissue-specificity of ACE inhibitors. In *"ACE inhibitors"* ed. by P. D'Orleans-Juste and G.E. Plante, Birkhauser Verlag, Basel, pp 163-170, 2001

Orfanos S.E., Kotanidou K, Roussos C. Pulmonary endothelial angiotensin converting enzyme in lung injury. In: *2002 Yearbook of Intensive Care and Emergency Medicine* ed.by Vincent JL. Springer, Berlin Heidelberg New York. pp 100-110, 2002

Orfanos S.E., Kotanidou K, Roussos C. Pulmonary endothelium-bound enzymes in the normal and the diseased lung In: *2003 Yearbook of Intensive Care and Emergency Medicine* ed.by Vincent JL. Springer, Berlin Heidelberg New York. pp 11-20, 2003

S.E. Orfanos, I. Mavrommati, I. Korovesi, C. Roussos. Pulmonary endothelium in acute lung injury: from basic science to the critically ill. In: *Applied Physiology in Intensive Care Medicine* ed by Pinsky MR, Brochard L and Mancebo J. Springer-Verlag, Berlin Heidelberg. pp 171-183, 2006*

The above chapter has been published as an Invited Review in *Intensive Care Med* (see “editorials – reviews” #1) and was chosen by the Editors to be included in this edition

S.E. Orfanos, N.A. Maniatis, A. Kotanidou. The effects of activated protein C on the septic endothelium. In: *2008 Yearbook of Intensive Care and Emergency Medicine* ed. by Vincent JL Springer, Berlin Heidelberg New York. pp 721-729, 2008

S.E. Orfanos, I. Mavrommati, I. Korovesi, C. Roussos. Pulmonary endothelium in acute lung injury: from basic science to the critically ill. In: *Applied Physiology in Intensive Care Medicine*, 2nd edition ed by Pinsky MR, Brochard L, Mancebo J and Hedenstierna G. Springer-Verlag, Berlin Heidelberg. pp 215-227, 2009* [*:Chapter in 1st & 2nd edition]

S.E. Orfanos, D. Langleben. Metabolic and clearance function at the pulmonary microvascular endothelial surface in pulmonary hypertension. In: *Textbook of Pulmonary Vascular Disease* ed. by Yuan JX-J et al. Springer, New York. pp 105-115, 2011

N. Manitsopoulos, F. Frantzeskaki, A. Kotanidou, S.E. Orfanos. Pulmonary endothelium in health and viral infections. In: *Human Respiratory Viral Infections* ed. by Sunit K. Singh, CRC Press, Boca Raton, FL. pp 45-70, 2014

I Nikitopoulou, N.A. Maniatis, A. Kotanidou, S.E. Orfanos. Pulmonary endothelium in sepsis and infections. In: *Textbook of Respiratory and Critical Care Infections* ed. by Blasi F. and Dimopoulos G. Jaypee Brothers Medical Publishers, New Delhi, London. pp 367-378, 2015

A.G. Vassiliou, S.E. Orfanos A. Kotanidou. Clinical assays in sepsis: Prognosis, diagnosis, outcomes, and the genetic basis of sepsis. In: *Sepsis* ed. by V. Kumar, Intech, Rijeka, Croatia, pp 93-129, 2017

3 Chapters in proceedings

S.E. Orfanos, C. Glynos, E. Psevdi, P. Kaltsas, P. Sarafidou, I. Mavrommati, A. Armaganidis, Ch. Roussos. Pulmonary endothelial angiotensin converting enzyme activity in ALI and ARDS. In *3rd State-of-the-Art Interdisciplinary Review Course Proceedings and Abstracts* ed. by Ch. Roussos, Athens, pp 328-335, 1999

S.E. Orfanos, A. Armaganidis, C. Glynos, E. Psevdi, P. Kaltsas, P. Sarafidou, J.D. Catravas, U.G. Dafni, D. Langleben, Ch. Roussos. Pulmonary capillary endothelium-bound angiotensin converting enzyme (ACE) activity in acute lung injury and the acute respiratory distress syndrome. In *"Vascular Endothelium: Source and Target of Inflammatory Mediators"* ed. by J.D. Catravas, A.D. Callow and U.S. Ryan, IOS Press, Amsterdam, pp. 322-331, 2001

S.E. Orfanos, A. Koutsoukou, I. Mavrommati, E. Psevdi, I. Korovesi, A. Kotanidou, Ch. Roussos. Clinical Pathology of ARDS. In “*Disease Markers in Exhaled Breath*” ed. by N. Marczin and M.H. Yacoub, IOS Press, Amsterdam, pp. 319-332, 2002

EDITORIALS, REVIEWS & ARTICLES in JOURNALS

20 editorials – reviews

1. SE Orfanos, I Mavrommati, I Korovesi, C Roussos. Pulmonary endothelium in acute lung injury: from basic science to the critically ill. *Int Care Med* 30:1702-1714, 2004 (Invited Review)
2. Maniatis NA, Orfanos SE. The endothelium in acute lung injury/acute respiratory distress syndrome. *Curr Opin Crit Care* 14(1):22-30, 2008 (Invited Review).
3. Maniatis NA, Kotanidou A, Catravas JD, Orfanos SE. Endothelial pathomechanisms in acute lung injury. *Vascul Pharmacol* 49:119-33, 2008 (Invited Review; special issue on the *Hot Topic: Role of the endothelium in pulmonary function and disease*, 17th European Respiratory Society Annual Congress 2007, Stockholm).
4. Orfanos SE, Zakynthinos S. Heart biomarkers as prognostic tools for chronic thromboembolic pulmonary hypertension: a step forward by the fatty acid-binding protein. *Eur Respir J* 31(5):915-7, 2008 (Editorial).
5. Tsangaris I, Orfanos SE. Inhaled vasodilators for pulmonary hypertension in left heart disease: should we start considering? *Critical Care Med* 37(3):1155-6, 2009 (Editorial).
6. S.E. Orfanos, I. Korovesi, K. Kaziani, Ch. Athanasiou. Bedside assessment of pulmonary endothelial function. *Neth J Crit Care* 14(5):324-29, 2010 (Invited Review)
7. S.E. Orfanos, G. Simonneau, C.M Kähler, R. Naeije, M. Gorenflo, J.O. Cáneva, M.R. Kramer. Editorial Clin Res Cardiol Suppl 5:1-2, 2010 (Editorial, non-Peer Reviewed)
8. Artigas A, Pelosi P, Dellweg D, Brochard L, Ferrer M, Geiseler J, Larsson A, Nava S, Navalesi P, Noël JL, Orfanos S, Palange P, Schoenhofer B, Vassilakopoulos T, Simonds A; ERS Educational Task Force on Respiratory Critical Care HERMES. Respiratory critical care HERMES syllabus: defining competencies for respiratory doctors. *Eur Respir J* 39(6):1294-7, 2012 (Editorial)
9. Tsangaris I, Tsaknis G, Anthi A, Orfanos SE. Pulmonary hypertension in parenchymal lung disease. *Pulm Med* 2012:684781. doi: 10.1155/2012/684781. Epub 2012 (Review)

10. A Anthi, SE Orfanos, A Armaganidis. Pulmonary Hypertension in β -thalassemia. *Lancet Respir Med* 1:488-96, 2013 (Invited Review)
11. SE Orfanos, I Tsangaris. Greek pulmonary vascular disease practice in time of economic crisis (Commentary, non-Peer Reviewed). *PVRI Review* 5:32-3, 2013
12. A Artigas, J-L Noel, L Brochard, J Busari, D Dellweg, M Ferrer, J Geiser, A Larsson, S Nava, P Navalesi, S Orfanos, P Palange, P Pelosi, G Rohde, B Schoenhofer, T Vassilakopoulos, A Simonds. Defining a training framework for clinicians in respiratory critical care. *Eur Respir J* 44: 572-7 2014 (Editorial)
13. Papaioannou AI, Orfanos SE. 'Every breath you take I'll be watching you': measuring exercise kinetics during 6-min walking test in COPD. *Respiration* 88(6):449-50, 2014 (Editorial)
14. Patry C, Orfanos SE, Rafat N. Translational research in ARDS patients: new biological phenotypes. *Intensive Care Med* 41(11):1986-9, 2015 (Editorial)
15. Tziolos N, Kotanidou A, Orfanos SE. Biomarkers in infection and sepsis: Can they really indicate final outcome? *Int J Antimicrob Agents* 46 Suppl 1:S29-32, 2015
16. Frantzeskaki F, Armaganidis A, Orfanos SE. Immunothrombosis in Acute Respiratory Distress Syndrome: Cross Talks between Inflammation and Coagulation. *Respiration* 93(3):212-225, 2017
17. Kosanovic D, Herrera EA, Sydykov A, Orfanos SE, El Agha E. Pulmonary Hypertension due to Lung Diseases and/or Hypoxia: What Do We Actually Know? *Can Respir J*. 2017:9598089. doi: 10.1155/2017/9598089. Epub 2017
18. Langleben D, Orfanos S. Vasodilator responsiveness in idiopathic pulmonary arterial hypertension: identifying a distinct phenotype with distinct physiology and distinct prognosis. *Pulm Circ* 7(3):588-597, 2017
19. Frantzeskaki F, Orfanos SE. Treating Nosocomial Pneumonia: what's new. *ERJ Open Research* Jun 26;4(2). pii: 00058-2018. doi: 10.1183/23120541.00058-2018. eCollection 2018
20. Demerouti E, Tsangaris I, Dimitroulas T, Giannakoulas G, Katsimpri P, Mitrouska I, Orfanos S, Skoularigkis I, Voulgari P, Sfikakis P. Pulmonary Arterial Hypertension in Connective Tissue Disorders: The emerging role of screening and early diagnosis. A position paper for Greek Rheumatologists. *Mediterr J Rheumatol* 2019 Jun 29;30(2):90-93. doi: 10.31138/mjr.30.2.90. eCollection 2019 Jun.

118 articles

1. Batrinos ML, Pitoulis SA, Anousakis CT, Koutsilieris MN, Panitsa-Fafliia Ch, Orphanos ST. Pituitary function in 8 patients with familial pituitary dwarfism. *Helv Paediat Acta* 36:417-427, 1981.
2. Pavlidis N, Nicolaou N, Tolis Ch, Orfanos SE, Tolis G. Is androgen substitution necessary in hypogonadal patients when they are treated with chemotherapy for malignant diseases? *Med Pediat Oncology* 17:222-226, 1989
3. Orphanos SE and Catravas JD. Muscarinic receptor subtype (M₁) identification on rabbit pulmonary vascular endothelium *in vivo*. *Pharmacology* 39:253-264, 1989.
4. Chen X-L, Orfanos SE J.W. Ryan, A.Y.K. Chung, D. Hess, J.D. Catravas Species variation in pulmonary endothelial aminopeptidase P activity. *J. Pharmacol. Exper. Ther.* 259:1301-1307, 1991.
5. Chen, X-L, S.E. Orfanos, John D. Catravas. Effects of indomethacin on PMA induced pulmonary endothelial enzyme dysfunction, *in vivo*. *Am. J. Physiol.* 262:L153-L162, 1992.
6. S.E. Orfanos, X-L., Chen, J.W. Ryan, A.Y.K. Chung, S.E. Burch, and J.D. Catravas Assay of pulmonary microvascular endothelial angiotensin-converting enzyme *in vivo*: Comparison of three probes. *Tox. Appl. Pharmacol.* 124:99-111, 1994
7. S.E. Orfanos, X-L Chen, S.E. Burch, J.W. Ryan, A.Y.K. Chung, and J.D. Catravas. Radiation-induced early pulmonary endothelial ectoenzyme dysfunction *in vivo*: effect of indomethacin. *Tox. Appl. Pharmacol.* 124:112-122, 1994
8. I.C. Ehrhart, L.L. McCloud, S.E. Orfanos, J.D. Catravas, and Hofman, W.F. Effect of high blood flow on pulmonary vascular permeability to protein. *J. Appl. Physiol.* 76(6):2342-2347, 1994
9. Orfanos, S.E., Ehrhart, I.C., Barman S.A., Hofman, W.E., Catravas, J.D. Endothelial ectoenzyme assays estimate perfused capillary surface area in the dog lung *Microvasc. Res.* 54: 145-155, 1997
10. S.E. Orfanos, J. Parkerson, E. Fisher, J.D. Catravas. Estimation of the dissociation constants for pulmonary endothelial angiotensin converting enzyme reactions with trandolaprilat and enalaprilat *in vivo*. *Drug Dev. Res.* 44: 80-86, 1998
11. I.C. Ehrhart, S.E. Orfanos, L. McCloud, D.W. Sickles, W.F. Hofman, J.D.

- Catravas. Vascular recruitment increases evidence of lung injury. *Crit. Care Med.* 27: 120-129, 1999.
12. Orfanos, D. Langleben, J. Khoury, R.D. Schlesinger, L. Dragatakis, Ch. Roussos, J.W. Ryan, J.D. Catravas. Pulmonary capillary endothelium-bound angiotensin-converting enzyme activity in humans. *Circulation* 99: 1593-1599, 1999. S.E.
 13. S.E. Orfanos, J.B. Parkerson, X.L. Chen, E.L. Fisher, C. Glynos, A. Papapetropoulos, R.G. Geritty, J.D. Catravas. Reduced pulmonary endothelial angiotensin converting enzyme activity in Watanabe Hyperlipidemic Rabbits, *in vivo*. *Am. J. Physiol. Lung Cell Mol. Physiol.* 278: L1280-L1288, 2000.
 14. S.E Orfanos, A. Armaganidis, C. Glynos, E. Psevdi, P. Kaltsas, P. Sarafidou, J.D. Catravas, U.G. Dafni, D. Langleben, Ch. Roussos. Pulmonary capillary endothelium-bound angiotensin converting enzyme activity in acute lung injury. *Circulation* 102: 2011-2018, 2000
 15. S.E. Orfanos, E. Psevdi, N. Stratigis, D. Langleben, J.D. Catravas, M. Kyriakidis, H.M. Moutsopoulos, Ch. Roussos, P.G. Vlachoyiannopoulos. Pulmonary capillary endothelial dysfunction in early systemic sclerosis. *Arthritis Rheum* 44: 902-911, 2001
 16. A.A. Prekates, S.E. Orfanos, A. Ch. Pantelidaki, Ch. Routsis, Ch. Roussos. Churg-Strauss syndrome occurring thirty years after the onset of ulcerative colitis *Resp Care* 47: 167-170, 2002
 17. Dimopoulou I., Tsagarakis S., Anthi A., Milou E., Ilias I., Stavrakaki K., Charalambidis Ch., Tzanella M., Orfanos S., Mandragos K., Thalassinos N., Roussos Ch. High prevalence of decreased cortisol reserve in brain-dead potential organ donors *Crit Care Med* 31: 1113-1117, 2003
 18. Dimopoulou I., Kouyialis A.T., Orfanos S., Armaganidis A., Tzanela M., Thalassinos N., Tsagarakis S. Endocrine alterations in critically-ill patients with stroke during the early recovery period. *Neurocrit Care* 3: 224-229, 2005
 19. Evangelos J Giamarellos-Bourboulis, Christina Routsis, Diamantis Plachouras, Vassiliki Markaki, Maria Raftogiannis, Dimitrios Zervakis, Vassilios Koussoulas, Stylianos Orfanos, Anastasia Kotanidou, Apostolos Armaganidis, Charis Roussos, Helen Giamarellou. Early apoptosis of blood monocytes in the septic host: is it a mechanism of protection in the event of septic shock? *Crit Care* 10(3):R76, 2006
 20. Anastasia Kotanidou, Heleni Loutrari, Evangelos Papadomichelakis, Constantinos Glynos, Christina Magkou, Apostolos Armaganidis, Andreas Papapetropoulos, Charis Roussos, Stylianos E. Orfanos. Inhaled activated protein C attenuates lung injury induced by aerosolized endotoxin in mice. *Vascul Pharmacol*

45:134-140, 2006

21. Tzanela M., Orfanos S.E., Tsirantonaki M., Kotanidou A., Sotiropoulou Ch., Christophoraki M., Tomos P., Thalassinos N.C., Roussos Ch. Leptin alterations in the course of sepsis in humans. *In Vivo* 20:565-570, 2006
22. Koutsoukou A., Perraki H., Raftopoulou A., Koulouris N., Sotiropoulou C., Kotanidou A., Orfanos S., Roussos C. Respiratory mechanics in brain-damaged patients. *Int Care Med* 32:1947-1954, 2006
23. Livaditi O, Kotanidou A, Psarra A, Dimopoulou I, Sotiropoulou C, Augustatou K, Papasteriades C, Armaganidis A, Roussos C, Orfanos SE, Douzinas EE. Neutrophil CD64 expression and serum IL-8: sensitive early markers of severity and outcome in sepsis. *Cytokine* 36:283-90, 2006
24. S.E. Orfanos, A. Kotanidou, C. Glynos, C. Athanasiou, S. Tsigkos, I. Dimopoulou, C. Sotiropoulou, S. Zakyntinos, A. Armaganidis, A. Papapetropoulos, C. Roussos. Angiopoietin-2 is increased in severe sepsis: correlation with inflammatory mediators. *Crit Care Med* 35:199-206, 2007 Erratum in: *Crit Care Med*. 2007, 35:1224.
25. Dimopoulou I, Alevizopoulou P, Dafni U, Orfanos S, Livaditi O, Tzanela M, Kotanidou A, Souvatzoglou E, Kopterides P, Mavrou I, Thalassinos N, Roussos C, Armaganidis A, Tsagarakis S. Pituitary-adrenal responses to human corticotropin-releasing hormone in critically ill patients. *Int Care Med* 33: 454-9, 2007
26. Glynos C, Kotanidou A, Orfanos SE, Zhou Z, Simoes DC, Magkou C, Roussos C, Papapetropoulos A. Soluble guanylyl cyclase expression is reduced in LPS-induced lung injury. *Am J Physiol Regul Integr Comp Physiol* 292: R1448-55, 2007
27. Tzanela M, Orfanos S, McCormick JR. Endotoxin augments hemodynamic and metabolic effects of formyl-methionyl-leucyl-phenylalanine (FMLP) in rabbits. *In Vivo* 21: 81-7, 2007
28. Dimopoulou I, Armaganidis A, Douka E, Mavrou I, Augustatou C, Kopterides P, Lyberopoulos P, Tzanela M, Orfanos SE, Pelekanou E, Kostopanagiotou G, Macheras A, Giamarellos-Bourboulis EJ. Tumour necrosis factor-alpha (TNFalpha) and interleukin-10 are crucial mediators in post-operative systemic inflammatory response and determine the occurrence of complications after major abdominal surgery. *Cytokine* 37:55-61, 2007
29. Dimopoulou I, Stamoulis K, Ilias I, Tzanela M, Lyberopoulos P, Orfanos S, Armaganidis A, Theodorakopoulou M, Tsagarakis S. A prospective study on adrenal cortex responses and outcome prediction in acute critical illness: results from a large cohort of 203 mixed ICU patients. *Int Care Med* 33:2116-21, 2007

30. Ilias I, Stamoulis K, Armaganidis A, Lyberopoulos P, Tzanela M, Orfanos S, Theodorakopoulou M, Tsagarakis S, Dimopoulou I. Contribution of endocrine parameters in predicting outcome of multiple trauma patients in an intensive care unit. *Hormones* 6:218-26, 2007
31. Ilias I, Tzanela M, Mavrou I, Douka E, Kopterides P, Armaganidis A, Orfanos S, Kostopanagiotou G, Macheras A, Tsagarakis S, Dimopoulou I. Thyroid Function Changes and Cytokine Alterations following Major Surgery. *NeuroImmunomodulation* 14:243-247, 2007
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