

Ulysses J. Magalang M.D.

e-mail: ulysses.magalang@osumc.edu phone: 614-292-4307
Office address: 241 West 11th Avenue, Suite 5000, Columbus, OH 43201
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Current Position(s)

Professor of Internal Medicine
Professor of Neuroscience
Division of Pulmonary, Critical Care, and Sleep Medicine
The Ohio State University
Director, OSU Sleep Medicine Program

Education

Fellow, Center for Sleep and Respiratory Neurobiology 12/1/1994-6/30/1996
University of Pennsylvania Health System
Philadelphia, PA

Fellow, Division of Pulmonary and Critical Care Medicine 7/1/1990-6/30/1993
State University of New York at Buffalo
Buffalo, NY

Medical Internship and Residency 6/25/1987-6/24/1990
State University of New York at Buffalo-
Mercy Hospital
Buffalo, NY

Intern (Straight Internship: Internal Medicine) 5/1/1983-4/30/1984
Philippine General Hospital
Manila, Philippines

Doctor of Medicine (*Cum Laude*) 6/1979-5/1983
College of Medicine
University of the Philippines
Manila, Philippines

Bachelor of Science (*Magna Cum Laude*) 6/1975-4/1979
University of the Philippines
Manila, Philippines

Academic Appointments

Professor of Medicine 7/2010-present
Division of Pulmonary, Allergy, Critical Care, and Sleep Medicine
The Ohio State University Wexner Medical Center
Columbus, OH

Professor of Neuroscience 9/2011-present
Department of Neuroscience
The Ohio State University Wexner Medical Center
Columbus, OH

Associate Professor of Medicine 7/2008-6/2010
Division of Pulmonary, Allergy, Critical Care, and Sleep Medicine
The Ohio State University Wexner Medical Center
Columbus, OH

Assistant Professor of Medicine 1/2004-6/2008
Division of Pulmonary, Allergy, Critical Care, and Sleep Medicine
The Ohio State University Wexner Medical Center
Columbus, OH

Assistant Professor of Medicine 8/1998-12/2003
Division of Pulmonary, Critical Care, and Sleep Medicine
State University of New York at Buffalo
Buffalo, NY

Assistant Professor of Medicine 7/1996-7/1998
Division of Pulmonary and Critical Care Medicine
Upstate Medical University
State University of New York
Syracuse, NY

Assistant Professor 2/1985-5/1987
Department of Biochemistry and Molecular Biology
College of Medicine
University of the Philippines
Manila, Philippines

Professional Positions and Experience

Director, OSU Sleep Medicine Program 01/2004- present
The Ohio State University Wexner Medical Center

Program Director (created and obtained ACGME accreditation for the Fellowship Program) 7/2006-6/2015
Sleep Medicine Fellowship Training, Program #5203814045
The Ohio State University Wexner Medical Center

Medical Director, Associated Sleep Center 8/1998-12/2003
1400 Sweet Home Road, Suite 5
Amherst, NY

Staff Physician 7/1993-11/1994
Chief, Medical Intensive Care Unit
Veterans Affairs Medical Center
Battle Creek, MI

Chief Medical Resident 1/1/1990-6/24/1990
State University of New York at Buffalo
Mercy Hospital
Buffalo, NY

Volunteer work 7/1984-12/1984
Rural Health Service
Department of Health
Philippines

Certification and Licensure

ABIM, Sleep Medicine, certified 2007
American Board of Sleep Medicine, indefinite 1997
Critical Care Medicine, certified 1995
Pulmonary Disease, certified 1994

Internal Medicine, Recertified 2004-2014
Internal Medicine, certified 1990-2000

Active Medical License:
Ohio

Professional Memberships and Activities

NIH Single Site and Pilot Clinical Trials (SSTP) Review Committee 7/2019- present
Permanent Member

American Thoracic Society (ATS) Scientific Advisory Committee 2018-present
Member (The scientific advisory committee reviews research grant applications for the ATS Foundation)

Sleep Apnea Global Interdisciplinary Consortium 3/2009- present
Founding Member (SAGIC: <http://www.med.upenn.edu/sleepctr/sagic.html>). This unique collaboration comprises international experts in the field of sleep research. Collaborators of this consortium include sleep disorder and cardiovascular experts from the U.S. (Ohio State University and University of Pennsylvania), Iceland (University of Iceland), Germany (Charité University Hospital), China (Peking University and Shanghai Jiao Tong University School of Medicine), Taiwan (Chang Gung Memorial Hospital, and Australia (University of Sydney and Sir Charles Gairdner Hospital, Nedlands).

NIH Special Emphasis Panel: Single-Site Investigator-Initiated Clinical Trials (R61/R33), Member 3/2018- 3/2019

Diabetes UK, Grant Reviewer 9/2016

NIH Special Emphasis Panel, Cardiovascular and Respiratory Sciences Integrated Review Group, Member 5/2013

NIH Cardiovascular and Respiratory Sciences IRG Special Emphasis Panel Study Section, Chair 2/2011

NIH Special Emphasis Panel Study Section, Cardiovascular and Respiratory Sciences Integrated Review Group, Member 6/2011

NIH Clinical and Integrative Cardiovascular Science (CICS) Study Section, Member 6/2011

NIH Clinical and Integrative Cardiovascular Science (CICS) Study Section, Member 2/2010-1/2010

American Thoracic Society (ATS) Sleep and Respiratory Neurobiology Assembly Planning Committee, Member 2012-2014

American Thoracic Society (ATS) International Conference Sleep and Respiratory Neurobiology Assembly, Program Committee, Member 2010-2013

American Academy of Sleep Medicine Sleep Medicine Fellowship Program Directors Council, Member 6/2010-6/2012

ACCP Sleep Medicine Network Steering Committee, Member 10/2008-10/2012

American Academy of Sleep Medicine Accreditation Committee, Vice-Chair 6/2009-6/2010

American Academy of Sleep Medicine Standards of Practice Committee, Member, Task Force on "Medical Therapy for Obstructive Sleep Apnea" 2003-2004

Editorial Board Appointments

Editorial Board Member

Annals of the American Thoracic Society
Chest

2015- 2021
2015- present

Manuscript reviewer for peer-reviewed journal articles

1. *Lancet*
2. *American Journal of Respiratory and Critical Care Medicine*
3. *American Journal of Respiratory Cell and Molecular Biology*
4. *Circulation: cardiovascular imaging*
5. *European Respiratory Journal*
6. *American Journal of Physiology-Cell Physiol*
7. *Am J Physiol Regul Integr Comp Physiol*
8. *Journal of Applied Physiology*
9. *Sleep*
10. *Sleep and Breathing*
11. *Journal of Sleep Research*
12. *Laboratory Investigation*
13. *Redox Report*
14. *Lung*
15. *American Journal of Pathology*

OSU Committee Assignments and Administrative Services

OSU Sleep Disorders Center, Ohio State University, Director	2004- present
OSU Sleep Disorders Center at Brain and Spine Hospital, Director	2017-present
OSU Senate, Faculty Council (alternate)	2017-2019
Global Brain Health and Performance Summit, Planning Committee	2017-2018
Sleep Medicine Fellowship Training Program, Program Director	6/2006-6/30/2015
OSU Ross Center for Brain Health and Human Performance, Senior Scientific Advisor	7/2016- 6/2019
Executive Committee, OSU Neurological Institute, Member	7/2016- 6/2017
Department of Internal Medicine, Appointment, Promotion and Tenure (AP&T) Committee, Member	2013-2015
The Ohio State University College of Medicine Appointment, Promotion, and Tenure (AP &T) Committee.	2012-2015

Clinical Activities

Clinical Responsibilities:

The Ohio State University Medical Center Attending Physician, Pulmonary Consult Service	1/2004-present
Attending Physician, Sleep Medicine Clinics	1/2004-present
Attending Physician, Medical Intensive Care Unit	1/2004-6/2015

Educational Activities

Supervision/Teaching Responsibilities:

The Ohio State University Medical Center

Supervision of sleep medicine and pulmonary/critical care fellows, medical residents, and medical students.	2004-present
Attending, Polysomnography teaching sessions	2007-present
Lecturer, Senior Elective Course in Therapeutics (Medical therapeutics 664)	2003-2008
Preceptor, Ambulatory Preceptorship I and III Programs	2005-2006
Preceptor: Physician Development Preceptorship I Program	2004-2005
Preceptor: Physician Development Preceptorship III Program	2004-2005

Honors and Awards

Listed in Best Doctors of America in Pulmonary and Sleep Medicine (www.bestdoctors.com)	2005-2021
Listed in Castle Connolly Top Doctors In Pulmonary Medicine	2014-2021

Grants and Contract Awards

Ongoing

- 1 X01 HL148635 NIH NHLBI TOPMed (Pack/Magalang/Ayas). 7/2020-06/2022
Genetic, Epigenetic and Metabolomic Basis of Obstructive Sleep Apnea Subtypes
Role: PI (Multiple PI)
The goal of the research is to characterize the genetic, epigenetic and metabolomic factors contributing to clinical subtypes of obstructive sleep apnea in subjects across multiple sleep centers for potential future developments of personalized medicine approaches.
- PR212399 DOD-PRMRP **Co-I** (Volek, PI) Recommended for Funding 09/22-09/2027
Strategies to Augment Ketosis (STAK) for Enhanced Readiness and Disease Reversal
Role: Co-I
The overarching objective is to determine if specific STAK interventions improve the problem of poor metabolic health that affects a high percentage of military service members, veterans, and the general population.
- Philips-Respiroics 02/2020- 02/2023
Validation of the Somnolyzer scoring algorithm against multiple human scorers.
Role: PI
The goal of the research is to determine the agreement in scoring sleep and respiratory events between computerized (Somnolyzer) and human scoring among multiple international sleep centers.
- Nyxoah 03/2021-03/2024
A multicenter study to assess the safety and effectiveness of the Genio dual-sided hypoglossal nerve stimulation system for the treatment of obstructive sleep apnea in adult subjects.
Role: Site PI
The goal is to determine the efficacy of bilateral hypoglossal nerve stimulation in the treatment of obstructive sleep apnea.
- Sommetrix 09/2021- 9/2022
Study Using Negative Pressure to Reduce Apnea (SUPRA)
Role: Site- PI
The goal is determine the safety and effectiveness of the an integrated continuous negative external pressure (cNEP) system that maintains an open airway by applying negative pressure

to the anterior neck for treatment of moderate to severe OSA in patients who cannot tolerate or refuse CPAP therapy.

Grants submitted

AASM Foundation (new submission)
03/14/2022

Effect of CPAP on 24-Hour Blood Pressure in the Excessively Sleepy Obstructive Sleep Apnea Subtype.
Role: PI

UG3HL161334-O1A1 NIH NHLBI (Richardson/Magalang) Re-submission date: 03/11/2022
Clinical Coordinating Center: Randomized controlled-trial of Early OSA Treatment in Traumatic Brain Injury
Role: PI (Multiple PI) Impact score: 54

NHLBI Program Project Grant Re-submission date: 01/25/2022
Developing a P4 Medicine Approach to Obstructive Sleep Apnea.

Role: Project Leader: Project 02. MicroRNAs as Biomarkers for Obstructive Sleep Apnea

NHLBI R34 *Planning Study of the Effects of CPAP on Blood Pressure in the Different Obstructive Sleep Apnea Symptom Subtypes.* (new submission) Submission Date: 12/10/2021

Role: PI

Previous funding

American Sleep Medicine Foundation 09/18/2017- 09/19/2021
Multifactorial approach to increasing oral appliance adherence in OSA (obstructive sleep apnea) treatment.

Role: Co-I

214-FP-19 American Sleep Medicine Foundation (Lyons, PI) 12/2020- 12/2021
Medical Residents and Advanced Practice Providers Perceptions in Managing Perioperative Obstructive Sleep Apnea: A Multi-Institutional Survey.

Role: Mentor

The goal of the research is to determine perceptions in the management of OSA in the perioperative period.

Ross Center for Brain Health and Performance/ Neurotherapeutics 10/2017- 06/2020
Transcranial Direct Current Stimulation Therapy for Central Hypersomnia

Role: PI

Ross Center for Brain Health and Performance/ Neurotherapeutics 10/2017- 06/2020
Transcranial Direct Current Stimulation Therapy for Sleepiness Related to Shift Work Disorder

Role: PI

Hill-Rom, Inc 01/01/2019-12/30/2019
A Feasibility Study to Determine the Effects of a Novel Mattress Support for Treatment of Positional Obstructive Sleep Apnea at Home

Role: PI

PCORI (Richardson PI) 11/01/2016-10/31/2019
Comparison of Sleep Apnea Assessment Strategies to Maximize TBI Rehabilitation Participation and Outcome

Role: Co-I

Rudi Schulte Family Research Foundation 08/01/2015-01/31/2019
Effects of Sleeping With Dim Light at Night (Centre for Brain Health and Performance)

Role: PI

Hill-Rom, Inc. 01/15/2016-12/31/2018
Phase II Investigation of sleep surface for treatment of positional obstructive sleep apnea

Role: PI

- US Agency for International Development (USAID) 06/01/2017- 04/30/2018
Role of HIF-1 alpha on intermittent hypoxia (IH)-induced adipose tissue dysfunction in type 2 diabetes mellitus
Role: PI
- R21 CA191846-01A1 NIH (NCI) (Nelson PI) 07/01/2015-06/30/2017
The effects of chemotherapy on sleep
Role: Co-I
- Hill-Rom, Inc 06/01/2014-07/31/2015
Investigation of sleep surface for treatment of positional obstructive sleep apnea
Role: PI
- R01 HL093463-01 NIH (NHLBI) (Magalang/Parinandi PI) 01/04/2010-05/31/2014
Intermittent hypoxia, adiponectin, and insulin resistance in cardiovascular risk
Role: PI (multiple PI)
- NIH (NCCRR/OSU CTSA) 04/01/2009- 03/31/2011
Health outcomes of treatment of obstructive sleep apnea with dental devices.
Role: PI
- Davis Heart and Lung Research Institute Thematic Program 07/01/2007-06/30/2008
Adiponectin in hyperoxic lung injury
Role: Co-PI (Parinandi PI)
- Davis Bremer Research Award 2006-2007
Adiponectin as an endogenous anti-inflammatory agent.
Role: PI
- American Lung Association 07/01/2003 – 06/30/2006
Chemoreceptive transduction pathways mediating hypoxic ventilatory depression in experimental obesity
Role: PI
- R25 OH007909-01 National Institutes of Health (NIOSH) 10/01/02 –09/30/2003
Sleep education in Western New York
Role: PI
- Research for Health in Erie County, Inc. 01/01/2002–12/31/2003
Obesity-related breathing impairments in genetically obese rats.
Role: PI
- Research for Health in Erie County, Inc. 01/01/99–12/31/2000
Neural Basis of Pharyngeal Motor Control during sleep.
Role: PI

Publications

Books Edited:

1. **Magalang UJ (guest editor-by invitation)**. Respiratory Disorders and Sleep. Sleep Medicine Clinics. Philadelphia: Elsevier, Inc. December 2008. (11 chapters).

Peer reviewed manuscripts:

1. Mador MJ, **Magalang UJ**, Kufel TJ. *Diaphragmatic fatigue after exercise in healthy human subjects*. Am Rev Respir Dis. 1993;148:1571-5. PMID: 8256903.
2. Mador MJ, **Magalang UJ**, Kufel TJ. *Twitch potentiation following voluntary diaphragmatic contraction*. Am J Respir Crit Care Med. 1994;149:739-43. PMID: 8118645.
3. Mador MJ, Rodis AVE, **Magalang UJ**. *Reproducibility of the Borg scale measurements of dyspnea in patients with COPD*. Chest. 1995;107:1590-97. PMID: 7781352.
4. **Magalang UJ**, Grant BJB. *Determination of gas exchange threshold by nonparametric regression*. Am J Respir Crit Care Med. 1995;151:98-106. PMID: 7812580.

5. Mador MJ, Rodis A, **Magalang UJ**, Ameen K. *Comparison of cervical magnetic and transcutaneous phrenic nerve stimulation before and after threshold loading.* Am J Respir Crit Care Med. 1996;154:448-53. PMID: 8756821.
6. Lee SD, **Magalang UJ**, Krasney JA, Farkas GA. *Opioidergic modulation of ventilatory response to sustained hypoxia in obese Zucker rats.* Obes Res. 2001;9:407-13. PMID: 11445663.
7. Nakano H, **Magalang UJ (senior corresponding author)**, Lee S, Krasney JA, Farkas GA. *Serotonergic modulation of ventilation and upper airway stability in obese Zucker rats.* Am J Respir Crit Care Med. 2001;163:1191-97. **This article received editorial comment when published.** Veasey SC. Serotonin: Culprit or promising therapy for obstructive sleep apnea? Am J Respir Crit Care Med. 2001;163:1045-1047. PMID: 11316658.
8. El-Solh AA, **Magalang UJ**, Mador MJ, Dmochowski J, Veeramachaneni A, Saberi A, Draw AM, Lieber BB, Grant BJB. *The utility of neural network in the diagnosis of Cheyne-Stokes respiration.* J Med Eng Technol. 2003;27:54-58. PMID: 12745912.
9. **Magalang UJ**, Mador MJ. *Behavioral and pharmacologic therapy of obstructive sleep apnea.* Clin Chest Med. 2003;24:343-353. PMID: 12800788.
10. **Magalang UJ**, Dmochowski J, Veeramachaneni S, Draw A, Mador MJ, El-Solh A, Grant BJB. *Prediction of the Apnea-Hypopnea Index from overnight oximetry.* Chest. 2003;124:1694-1701. **This article received editorial comment when published.** Bloch KE. Getting the most out of nocturnal pulse oximetry. Chest. 2003;124:1627-1628. PMID: 14605037.
11. Ogasa T, Ray AD, Michlin CP, Farkas GA, Grant BJB, **Magalang UJ (senior corresponding author)**. *Systemic administration of serotonin 2A/2C agonist improves upper airway stability in Zucker rats.* Am J Respir Crit Care Med. 2004;170:804-810. PMID: 15256396.
12. Lee-Chiong T, **Magalang UJ**. *Monitoring respiration during sleep.* Respir Care Clin N Am. 2005;11:663-678. PMID: 16303595.
13. Mador MJ, Kufel TJ, **Magalang UJ**, Rajesh SK, Watwe V, Grant BJB. *Prevalence of positional sleep apnea in patients undergoing polysomnography.* Chest 2005; 128:2130-2137. PMID: 16236865.
14. Veasey SC, Guilleminault C, Strohl KP, Sanders MH, Ballard RD, **Magalang UJ**. *Medical therapy for obstructive sleep apnea: a review by the Medical Therapy for Obstructive Sleep Apnea Task Force of the Standards of Practice Committee of the American Academy of Sleep Medicine.* Sleep. 2006 Aug 1;29(8):1036-44. PMID: 16944672.
15. Varadharaj S, Steinhour E, Hunter MG, Watkins T, Baran CP, **Magalang UJ**, Kuppusamy P, Zweier JL, Marsh CB, Natarajan V, Parinandi N. *Vitamin C-induced activation of phospholipase D in lung microvascular endothelial cells: regulation by MAP kinases.* Cell Signal, 2006;18:1396-407. PMID: 16376521.
16. **Magalang UJ**, Rajappan R, Hunter MG, Kutala VK, Kuppusamy P, Wewers M, Marsh CB, Parinandi NL. *Adiponectin inhibits superoxide generation by human neutrophils.* Antioxid Redox Signal. 2006;8(11-12):2179-86. PMID:17034361.
17. Hagele TJ, Mazerik JN, Gregory A, Kaufman B, **Magalang UJ**, Kuppusamy M, Marsh CB, Kuppusamy P, Parinandi N. *Mercury activates vascular endothelial cell phospholipase D through thiols and oxidative stress.* Int J Toxicol, 2007;26:1-13. PMID: 17365148.
18. Ray AD, **Magalang UJ**, Michlin CP, Ogasa T, Krasney JA, Gosselin LE, Farkas GA. *Intermittent hypoxia reduces upper airway stability in lean but not obese zucker rats.* Am J Physiol Regul Integr Comp Physiol, 2007; 293:R372-8. PMID: 17459910.

19. Steinhour E, Sherwani SI, Mazerik JN, Ciapala V, O'Connor Butler E, Cruff JP, **Magalang U**, Parthasarathy S, Sen CK, Marsh CB, Kuppusamy P, Parinandi NL. *Redox-active antioxidant modulation of lipid signaling in vascular endothelial cells: vitamin C induces activation of phospholipase D through phospholipase A₂, lipoxygenase, and cyclooxygenase*. Mol Cell Biochem 2008;315: 97-112. PMID: 18496733.
20. Ray AD, Ogasa T, **Magalang UJ**, Krasney JA, Farkas GA. *Aging increases upper airway collapsibility in Fischer 344 rats*. J Appl Physiol 2008; 105: 1471-6. PMID: 18756010 PMCID: PMC2584843.
21. Peltz A, Sherwani SI, Kotha SR, Mazerik JN, O'Connor Butler ES, Kuppusamy ML, Hagele T, **Magalang UJ**, Kuppusamy P, Marsh CB, Parinandi NL. *Calcium and calmodulin regulate mercury-induced phospholipase D activation in vascular endothelial cells*. Int J Toxicol. 2009;28(3):190-206. PMID: 19546257.
22. **Magalang UJ**, Cruff JP, Rajappan R, Hunter M, Patel T, Marsh CB, Raman SV, Parinandi N. *Intermittent hypoxia suppresses adiponectin secretion by adipocytes*. Exp Clin Endoc Diab 2009;117(3):129-34. PMID: 18563681.
23. **Magalang UJ**, Richards K, McCarthy B, Fathala A, Khan M, Parinandi N, Raman S. *Continuous positive airway pressure therapy reduces right ventricular volume in patients with obstructive sleep apnea: a cardiovascular magnetic resonance study*. J Clin Sleep Med 2009;5:110-114. PMID: 19968042 PMCID: PMC2670328.
24. Halberg N, Khan T, Trujillo ME, Wernstedt-Asterholm I, Attie AD, Sherwani S, Wang ZV, Landskroner-Eiger S, Dineen S, **Magalang UJ**, Brekken RA, Scherer PE. *HIF 1 alpha Induces Fibrosis and Insulin Resistance in White Adipose Tissue*. Mol Cell Biol. 2009;29 (16):4467-83. PMID: 19546236 PMCID: PMC2725728.
25. Patel RB, Kotha SR, Sauers LA, Malireddy S, Gurney TO, Gupta NN, Elton TS, **Magalang UJ**, Marsh CB, Haley BE, Parinandi NL. *Thiol-redox antioxidants protect against lung vascular endothelial cytoskeletal alterations caused by pulmonary fibrosis inducer, bleomycin: comparison between classical thiol protectant, N-acetyl-L-cysteine and novel thiol antioxidant, N,N'-bis-2-mercaptoethyl isophthalamide*. Toxicol Mech Methods. 2012 ;22(5):383-96. PMID: 22409285.
26. Wirtz DJ, Bhatt NY, Roble SL, Ghosh S, **Magalang UJ**. *Endobronchial Erosion of Vascular Embolic Coil*. Am J Respir Crit Care Med. 2012; 185: 682. PMID: 22422904.
27. Ashley NT, Zhang N, Weil ZM, **Magalang UJ**, Nelson RJ. *Photoperiod alters duration and intensity of non-rapid eye movement sleep following immune challenge in Siberian hamsters (Phodopus sungorus)*. Chronobiol Int. 2012;29(6):683-92. PMID: 22734569.
28. Afaq T, **Magalang UJ**, Das A. *An unusual cause of insomnia*. J Clin Sleep Med 2012; 8(5):623-5. PMID: 23066378 PMCID: PMC3459212.
29. Iftikhar I, Hays ER, Iverson M, **Magalang UJ**, Maas AK. *Effect of oral appliances on blood pressure in patients with obstructive sleep apnea: A systematic review and meta-analysis*. J Clin Sleep Med 2013;9:165-74. PMID: 23372472 PMCID: PMC3544387
30. Iftikhar I, Khan, M, Das, A, **Magalang UJ**. *Meta-analysis: CPAP Improves Insulin Resistance in Patients with Sleep Apnea Without Diabetes*. Ann Am Thorac Soc. 2013 10(2):115-20. PMID: 23607839

31. **Magalang UJ**, Chen N, Cistulli P, Fedson A, Gislason T, Hillman D, Penzel T, Tamisier R, Tufik S, Pack AI for the SAGIC Investigators. *Agreement in the Scoring of Respiratory Events and Sleep Among International Sleep Centers*. SLEEP. 2013;36:591-6. PMID: 23565005 PMCID: PMC3612261
32. Sun K, Halberg N, Khan M, **Magalang UJ**, Scherer PE. *Selective Inhibition of HIF1 α Ameliorates Adipose Tissue Dysfunction*. Mol Cell Biol 2013;33:904-17. PMID: 23249949 PMCID: PMC3623075
33. Parinandi NL, **Magalang UJ**. *Avatars of Adipose Tissue – The Saga of Transformation of White Fat, the Villain into Brown Fat, the Protector (Editorial Focus)*. Am J Physiol Cell Physiol 2013; 304:C715-C716. PMID: 23364262
34. Ashley NT, Walton JC, Haim A, Zhang N, Prince LA, Fruchey AM, Lieberman RA, Weil ZM, **Magalang UJ**, Nelson RJ. *Sleep deprivation attenuates endotoxin-induced cytokine gene expression independent of day length and circulating cortisol in male Siberian hamsters (Phodopus sungorus)*. J. Exp Biol 2013;216(Pt 14):2581-6. PMID: 23531821
35. Aubrecht TG, Weil ZM, **Magalang UJ**, Nelson RJ. *Dim Light at Night Interacts with Intermittent Hypoxia to Alter Cognitive And Affective Responses*. Am J Physiol Regul Integr Comp Physiol 2013;305(1):R78-86. PMID: 23657638 PMCID: PMC3727029
36. Sliman SM, Patel RB, Cruff JP, Kotha SR, Newland CA, Schrader CA, Sherwani SI, Gurney TO, **Magalang UJ**, Parinandi NL. *Adiponectin protects against hyperoxic lung injury and vascular leak*. Cell Biochem Biophys 2013; 67(2):399-414. PMID: 2183615.
37. Sherwani SI, Pabon S, Patel RB, Muzzammil MS, Hagele T, Kotha SR, **Magalang UJ**, Maddipati KR and Parinandi NL. *Eicosanoid signaling of methylmercury-induced phospholipase D activation in vascular endothelial cells: Bioactive lipid-mediated cytotoxicity of methylmercury*. Cell Biochem Biophys 2013;67(2):317-29. PMID: 22020799.
38. Malireddy S, Lawson C, Steinhour E, Hart J, Kotha SR, Patel RB, Zhao L, Wilkins JR, Marsh CB, **Magalang UJ**, Romberger D, Wewers MD, Parinandi NL. *Airborne agricultural particulate matter induces inflammatory cytokine secretion by respiratory epithelial cells: mechanisms of regulation by eicosanoid lipid signal mediators*. Indian J Biochem Biophys. 2013 Oct;50(5):387-401. PMID: 24772960
39. Sherwani SI, Aldana C, Usmani S, Adin C, Kotha S, Khan M, Eubank T, Scherer PE, Parinandi NL, **Magalang UJ**. *Intermittent Hypoxia Exacerbates Pancreatic β -cell Dysfunction In A Mouse Model of Diabetes Mellitus*. SLEEP 2013;36(12):1849-58. PMID:24293759 PMCID:PMC3825434
40. Gorbett D, Ghosh S, Boutsicaris C, Wood K, **Magalang UJ**. *Central Airway Narrowing During an Acute Asthma Attack*. Am J Respir Crit Care Med 2014; 190(6):e20-1. doi: 10.1164/rccm.201309-1600IM. PMID: 25221890.
41. Iftikhar I, Valentine CW, Azeredo Bittencourt LR, Cohen DL, Fedson AC, Gislason T, Penzel T, Phillips CL, Lin Y, Pack AI, **Magalang UJ**. *Effects of Continuous Positive Airway Pressure on Blood Pressure in Patients with Resistant Hypertension and Obstructive Sleep Apnea: A meta-analysis*. J Hypertension 2014;32(12):2341-50. doi: 10.1097/HJH.0000000000000372. PMID: 25243523 [PubMed - in process]
42. Teferra R, Grant BJB, Mindel J, Siddiqi TA, Iftikhar I, Ajaz F, Aliling J, Khan M, Hoffmann S, **Magalang UJ**. *Cost Minimization Using An Artificial Neural Network Sleep Apnea Prediction Tool for Sleep Studies*. Ann Am Thor Soc 2014; 11(7):1064-74. doi: 10.1513/AnnalsATS.201404-161OC. PMID: 25068704 [PubMed - in process]
43. Aubrecht TG, Jenkins R, **Magalang UJ**, Nelson RJ. *Influence of Gonadal Hormones on the Behavioral Effects of Intermittent Hypoxia in Mice*. Am J Physiol Regul Integr Comp Physiol.

2015 Mar 15;308(6):R489-99. PMID: 25552660.

44. Iftikhar IH, Hoyos CM, Phillips CL, **Magalang UJ**. *Meta-analyses of the Association of Sleep Apnea with Insulin Resistance, and the Effects of CPAP on HOMA-IR, Adiponectin and Visceral Adipose Fat*. *J Clin Sleep Med* 2015;11(4):475–485. PMID: 25700870.
45. Iftikhar IH, Donley MA, Mindel JW, Pleister AP, Soriano SM, **Magalang UJ**. *Sleep Duration and Metabolic Syndrome: A Dose-Risk Meta-analysis*. *Ann Am Thorac Soc* 2015;12(9):1364-72. PMID: 26168016.
46. **Magalang UJ**, Pack AI. Heart Failure and Sleep-Disordered Breathing--The Plot Thickens. *N Engl J Med*. 2015;373(12):1166-7. PubMed PMID: 26323939.
47. **Magalang UJ**, Arnardottir E, Chen N, Cistulli P, Gíslason T, Lim D, Penzel T, Schwab R, Tufik S, Pack AI for the SAGIC Investigators. *Agreement in the Scoring of Respiratory Events Among International Sleep Centers for Home Sleep Testing*. *J Clin Sleep Med* 2016 ;12(1):71-7. doi: 10.5664/jcsm.5398. PubMed PMID: 26350603.
48. **Magalang UJ**, Pack AI. Adaptive Servo-Ventilation for Central Sleep Apnea in Heart Failure. *N Engl J Med*. 2016; 374(7):691. PubMed PMID: 26894248.
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77. Mador MJ, **Magalang UJ**, Kufel TJ. Low frequency diaphragmatic fatigue following exercise in normal man. *Am Rev Respir Dis*. 1991; 143: A365.

Oral Presentations

National/International Meetings

1. American College of Chest Physicians (ACCP) International Conference, Salt Lake City, UT "Sleep architecture in the various sleep disorders"
Invited speaker 10/22/2006
2. American College of Chest Physicians (ACCP) Sleep Institute, CME "Sleep Disorders: recognition and management"
Faculty and Course Director 5/5/2007
3. American College of Chest Physicians (ACCP) CME, Allegheny General Hospital, Pittsburgh, PA. "Sleep Disorders: recognition and management"
Invited Faculty 7/28/2007
4. ATS International Conference, "CPAP treatment increases levels of high-molecular-weight adiponectin in patients with Obstructive sleep apnea" Toronto, Canada.
Senior author: (Cruff J, presenter) 5/2008
5. American College of Chest Physicians (ACCP) CME, Tampa General Hospital, University of South Florida, Tampa, FL "Sleep Disorders: recognition and management"
Invited Faculty 10/11/2008
6. ATS International Conference. "Measurement of Intracellular Oxygen Tension in Adipocytes during Intermittent Hypoxia: An Electron Paramagnetic Resonance Study" San Diego, CA
Invited speaker 5/2009
7. American College of Chest Physicians (ACCP) International Conference. "Best of Sleep 2009-Restless Legs Syndrome and Parasomnias" San Diego, CA
Invited Faculty-Postgraduate Course 11/1/2009
8. Sleep Medicine Research Seminar. "Hypoxia, adiponectin, and the unfolded protein Response". Case Western Reserve University
Invited Speaker 1/13/2010
9. Pulmonary Research Seminar "Cardiac structure and function OSA: effects of CPAP therapy" Case Western Reserve University.
Invited Speaker 1/13/2010
10. ATS International Conference. "Relationship between obesity, diabetes and Sleep apnea" New Orleans, LA
Invited Faculty, Meet the Professor Seminar 5/18/2010
11. Research Seminar "Hypoxia, adiponectin, and respiratory disorders." Touchstone Diabetes Center University of Texas Southwestern Medical Center. Dallas, TX.
Invited Speaker 1/25/2011
12. ATS International Conference. "Hypoxia" Denver, CO
Chair, Scientific Symposium 5/2011

13. SAGIC Workshop. Agreement in the scoring of polysomnography among International centers. Sao Paolo, Brazil
Invited Speaker 2/10/2012
14. ATS International Conference. "Sleep Disordered Breathing and Metabolic Function: How Unsweet It Is" San Francisco, CA
Chair, Scientific Symposium 5/2012
15. Associated Professional Sleep Societies (APSS) International Meeting. "Agreement in the Scoring of Respiratory Events and Sleep Among International Sleep Centers" Boston, MA
Invited Speaker 6/2012
16. American College of Chest Physicians (ACCP) International Conference. "Controversies in Sleep Medicine: Is a Sleep Study Indicated?" Atlanta, GA
Chair, Scientific Symposium 10/21/2012
17. American College of Chest Physicians (ACCP) International Conference. "The sleep patient: What to do if there is no sleep apnea" Atlanta, GA
Chair, Scientific Symposium 10/23/2012
18. American College of Chest Physicians (ACCP) International Conference. "Obstructive Sleep Apnea as a Systemic Disorder" Atlanta, GA
Chair, Scientific Symposium 10/24/2012
19. "Effects of Intermittent Hypoxia During Sleep: from fat to tumor cells." Division of Pulmonary and Critical Care, Penn State University Hersey Medical Center, Hershey, PA
Invited Speaker 2/19/2013
20. SAGIC Workshop. Agreement in the scoring of respiratory events among International centers for in-home sleep studies. Berlin, Germany
Speaker 4/8/2013
21. SAGIC Workshop. Extreme Phenotype: a useful strategy for SAGIC? Berlin, Germany
Speaker 4/9/2013
22. Effect of Intermittent Hypoxia in a Polygenic Model of Type 2 Diabetes Mellitus Center for Sleep and Circadian Neurobiology, University of Pennsylvania Medical Center, Philadelphia, PA
Speaker 4/1/2014
23. SAGIC Workshop. Artificial Neural Networks: a role in OSA prediction? San Diego, CA
Speaker 5/16/2014
24. SAGIC Workshop. Extreme OSA phenotype in different ethnic groups San Diego, CA
Speaker 5/16/2014
25. Taiwan Society of Sleep Medicine. "Sleep Apnea and Metabolic Syndrome" Taipei, Taiwan
Speaker 5/29/2015
26. Center for Sleep and Circadian Neurobiology and Penn Chronobiology Program Joint

- Research Retreat "Sleep Apnea and Metabolic Dysfunction". University of Pennsylvania Medical Center Philadelphia, PA.
Featured Speaker 5/11/2016
27. 2017 World Sleep Congress. "Scoring of Apneas and Hypopneas"
Prague, Czech Republic
Invited Speaker 10/11/2017
28. SAGIC Workshop. "Defining Obstructive Sleep Apnea Extreme Phenotypes in an International Consortium Using Liability Scores"
University of Sydney, Sydney, Australia.
Speaker 11/9/2017
29. Associated Professional Sleep Societies (APSS) International Meeting.
"Neurobiology of Breathing" Baltimore, MD
Invited Speaker 6/5/2018
30. Associated Professional Sleep Societies (APSS) International Meeting.
"Polysomnographic and Symptom Clusters in Obstructive Sleep Apnea:
Clinical Relevance" Baltimore, MD
Chair and Organizer, Scientific Session 6/6/2018
31. SAGIC Workshop. "Heart Rate Variability and Obstructive Sleep Apnea". University of Iceland,
Reykjavik, Iceland.
Invited Speaker 9/22/2018
32. SAGIC Workshop. "Defining Obstructive Sleep Apnea Extreme Phenotypes
in an International Consortium Using Liability Scores." University of Iceland, Reykjavik, Iceland.
Invited Speaker 9/23/2018
33. Associated Professional Sleep Societies (APSS) International Meeting.
Sleep 2019. Baltimore, MD, "Neurobiology of Breathing."
Invited Speaker. 6/11/2019
34. 2019 World Sleep Congress. "Identifying extreme phenotypes: using obstructive
sleep apnea as an example." Vancouver, Canada
Invited Speaker 09/25/2019
35. Yale Sleep Medicine Seminar. "RCTs of Cardiovascular Outcomes in OSA:
is it time for an alternative trial design?" 11/18/2020
Invited Speaker
36. 2022 World Sleep Congress. "Gaining insights about obstructive sleep apnoea from large-scale data.
An International Perspective: The Sleep Apnea Global Interdisciplinary Consortium (SAGIC). Rome,
Italy 03/16/2022
Invited Speaker

Local/Regional Meetings

37. Pulmonary and Critical Care Medicine Update,
CME Conference, Columbus OH: "Update on the treatment of sleep apnea."
Invited speaker 2/2004
38. Pulmonary and Critical Care Medicine Update,
CME Conference Columbus OH: "Sleep Apnea: what's new?"
Invited speaker 3/5/2005

39. OSU Medical Center: "Coping with shift work", public forum
Organizer and speaker 4/1/2005
40. Ross Heart Hospital "Sleep and the heart: Cardiovascular consequences of sleep apnea"
CME (3.5 hours category 1)
Course Director and Speaker 4/16/2005
41. Hilton Columbus "Morbidities associated with sleep apnea"
CME (3.5 hours category 1)
Course Director and Speaker 2/24/2006
42. Sleep Disorders and Diabetes, Fawcett Center, Columbus, OH.
"Management of Sleep Disorders in the Diabetic Patient"
CME (1.5 hours category 1)
Speaker 9/13/2006
43. "Sleep Medicine at the 'shoe: a course for primary care providers."
CME (4.25 hours category 1)
Course Director and Speaker 3/31/2007
44. American College of Occupational Medicine/Tri-
State Occupational Medical Association, Columbus, OH: "*The Drowsy Worker*"
Invited Faculty 10/13/2009
45. "Sleep, Diabetes, and the Heart". Columbus, OH
CME (4.5 hours Category 1).
Course Director and Speaker 10/17/2009
46. OSU Annual Sleep Medicine CME Conference. "Sleep deprived driving"
CME, Columbus, OH
Speaker 10/2011
47. OSU Annual Sleep Medicine Conference. "Sleep Medicine Update 2012"
Speaker 10/2012
48. OSU Annual Sleep Medicine Conference. "How to Incorporate Portable
Sleep studies in Your Practice" Columbus, OH
Speaker 9/20/2013
49. OSU Annual Sleep Medicine Conference "Sleep Apnea and Metabolic Syndrome"
Columbus, OH
Speaker 9/26/2014
50. Division of Pulmonary, Allergy, Critical Care and Sleep Medicine Research
Conference "Sleep apnea and metabolic dysfunction: experimental and human data"
Ohio State University, Columbus, OH
Speaker 4/19/2016
51. Department of Internal Medicine Grand Rounds "Advances in the Diagnosis
And Treatment of Sleep Disorders" Ohio State University, Columbus, OH
Speaker 4/28/2016
52. Ohio Thoracic Society "Advances in the Diagnosis and Treatment of Sleep Disorders"
Nationwide Childrens Hospital, Columbus, OH
Speaker 9/30/2016

53. 2017 Global Brain Health and Performance Summit "Sleep and Light"
Hilton Hotel, Columbus, OH
Speaker 4/28/2017
54. Global Brain Health and Performance Summit "Light at Night: Edison's Impact
On Sleep and Human Performance" Hilton Hotel, Columbus, OH
Speaker 4/5/2018
55. Pulmonary Research Conference, Ohio State University. "RCTs of Cardiovascular
Outcomes in OSA: is it time for an alternative trial design?"
Invited Speaker 11/02/2020

Other Creative Products

56. MedNet 21 (live CME webcast to international audience) "Sleep Disorders".
Invited speaker 3/14/2005
57. MedNet 21 (live CME webcast to international audience) "Insomnia".
Invited speaker 6/29/2007