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Refereed Papers and Articles

1. Burbank AJ, Atkinson CE, Schworer SA, Mills K, Rooney J, Loughlin CE, Phipatanakul W, **Hernandez ML**. Race-specific spirometry reference equations overestimate asthma control in African American children and adolescents. *Respiratory Research* 2023 PMID: 37592259
2. Schworer SA, Chason KD, Chen G, Chen J, Zhou H, Burbank AJ, Kesic MJ, **Hernandez ML**. Interleukin-1 receptor antagonist attenuates pro-inflammatory responses to rhinovirus in airway epithelium. *J Allergy Clin Immunol.* 2023. PMID: 36708816
3. Espallat AE, **Hernandez ML**, Burbank AJ. Social determinants of health and asthma. *Curr Opin Allergy Clin Immunol.* 2022 PMID: 36728768
4. Atkinson CE, Kesic MJ, **Hernandez ML**. Ozone in the Development of Pediatric Asthma and Atopic Disease. *Immunol Allergy Clin North Am.* 2022 Nov;42(4):701-713. PMID: 36265970
5. Burbank AJ, **Hernandez ML**, Jefferson A, Perry TT, Phipatanakul W, Poole J, Matsui EC. Environmental justice and allergic disease: A Work Group Report of the AAAAI Environmental Exposure and Respiratory Health Committee and the Diversity, Equity and Inclusion Committee. *J Allergy Clin Immunol.* 2022. PMID: 36584926
6. Corren J, Larson D, Altman MC, Segnitz RM, Avila PC, Greenberger PA, Baroody F, Moss MH, Nelson H, Burbank AJ, **Hernandez ML**, Peden D, Saini S, Tilles S, Hussain I, Whitehouse D, Qin T, Villarreal M, Sever M, Wheatley LM, Nepom GT, Sanda S; Immune Tolerance Network ITN057AD CATNIP Study Team. Effects of combination treatment with tezepelumab and allergen immunotherapy on nasal responses to allergen: A randomized controlled trial. *J Allergy Clin Immunol.* 2022 Oct 9:S0091-6749(22)01333-1. PMID: 36223848
7. Atkinson CE, Schworer SA, Matthews K, Mills K, Neighbors K, Burbank AJ, **Hernandez ML**. Omalizumab is associated with improved asthma outcomes in children and adolescents with serum immunoglobulin IgE above dosing guidelines. *J Allergy Clin Immunol Pract.* 2022 PMID: 35803538.
8. Alexis NE, Zhou LY, Burbank AJ, Almond M, **Hernandez ML**, Mills KH, Noah TL, Wells H, Zhou H, Peden DB. Development of a screening protocol to identify persons who are responsive to wood smoke particle-induced airway inflammation with pilot assessment of GSTM1 genotype and asthma status as response modifiers. *Inhal Toxicol.* 2022;34(11-12):329-339.
9. Burbank AJ, Kesic MJ, **Hernandez ML**. From the farm to the big city: Emerging health effects of agricultural emissions on asthma. *J Allergy Clin Immunol.* 2022 PMID: 35483508.
10. Cardet JC, Shenoy K, Baydur A, Carroll JK, Celedón JC, Cui J, Dara P, Ericson B, Forth VE, Fagan M, Fuhlbrigge AL, Gupta R, Hart MK, **Hernandez ML**, Hernandez PA, Kruse J, Maher NE, Manning BK, Pinto-Plata VM, Robles J, Rodriguez-Louis J, Shields JB, Telon Sosa BS, Wechsler ME, Israel E. Caribbean Latinx with moderate-severe asthma bear greater asthma morbidity than other Latinx. *J Allergy Clin Immunol.* 2022 Jun 30:S0091-6749(22)00885-5. doi: 10.1016/j.jaci.2022.05.026. Epub ahead of print. PMID: 35779669.

11. Israel E, Cardet JC, Carroll JK, Fuhlbrigge AL, She L, Rockhold FW, Maher NE, Fagan M, Forth VE, Yawn BP, Arias Hernandez P, Kruse JM, Manning BK, Rodriguez-Louis J, Shields JB, Ericson B, Colon-Moya AD, Madison S, Coyne-Beasley T, Hammer GM, Kaplan BM, Rand CS, Robles J, Thompson O, Wechsler ME, Wisnivesky JP, McKee MD, Jariwala SP, Jerschow E, Busse PJ, Kaelber DC, Nazario S, **Hernandez ML**, Apter AJ, Chang KL, Pinto-Plata V, Stranges PM, Hurley LP, Trevor J, Casale TB, Chupp G, Riley IL, Shenoy K, Pasarica M, Calderon-Candelario RA, Tapp H, Baydur A, Pace WD. Reliever-Triggered Inhaled Glucocorticoid in Black and Latinx Adults with Asthma. *N Engl J Med*. 2022 Apr 21;386(16):1505-1518. doi: 10.1056/NEJMoa2118813. Epub 2022 Feb 26. PMID: 35213105.
12. Jiang Q, Im S, Wagner JG, **Hernandez ML**, Peden DB. Gamma-tocopherol, a major form of vitamin E in diets: Insights into antioxidant and anti-inflammatory effects, mechanisms, and roles in disease management. *Free Radic Biol Med*. 2022 Jan;178:347-359. doi: 10.1016/j.freeradbiomed.2021.12.012. Epub 2021 Dec 9. PMID: 34896589; PMCID: PMC8826491.
13. Nguyen-Tran H, Park SW, Messacar K, Dominguez SR, Vogt MR, Permar S, Permaul P, **Hernandez M**, Douek DC, McDermott AB, Metcalf JE, Grenfell B, Spaulding AB. Enterovirus D68: a test case for the use of immunological surveillance to develop tools to mitigate the pandemic potential of emerging pathogens. *Lancet Microbe* 2022. PMID: 35036969
14. Burbank AJ, Schworer SA, Sood A, Almond M, Chason K, Bean N, Zhou H, **Hernandez ML**. Airway IL-1 β associates with IL-5 production following dust mite allergen inhalation in humans. *Respir Res*. 2021 PMID: 34876117
15. Pacheco SE, Guidos G, Annesi-Maesano I, Pawankar R, Amato G, Latour-Staffeld P, Urrutia-Pereira M, Kesic MJ, **Hernandez ML**. Climate Change and Global Issues in Allergy and Immunology. *J Allergy Clin Immunol*. 2021 PMID: 34688774.
16. Abdelkhalek M, Qiu J, **Hernandez M**, Bozkurt A, Lobaton E. "Investigating the Relationship between Cough Detection and Sampling Frequency for Wearable Devices," IEEE Engineering in Medicine and Biology Conference (EMBC), 2021.
17. Bennett WD, Burbank A, Almond M, Wu J, Ceppe A, **Hernandez M**, Boucher RC, Peden DB. Acute and durable effect of inhaled hypertonic saline on mucociliary clearance in adult asthma. *ERJ Open Res*. 2021 Jun 7;7(2):00062-2021. doi: 10.1183/23120541.00062-2021. PMID: 34109248 PMCID: PMC8184161
18. **Hernandez ML**, Lucas N, Mann C, Lin L, Burbank AJ, Brown J, Sims M, Ivins S, Cunningham A, Maciag MC, Akar-Ghibril N, Bennett AV, Phipatanakul W, Reeve BB. Association of step count with PROMIS $\text{\textcircled{R}}$ pediatric health-related quality of life measures in children and adolescents with persistent asthma. *J Allergy Clin Immunol Pract*. 2021 Feb 15;. doi: 10.1016/j.jaip.2021.01.046. PMID: 33601050.
19. **Hernandez ML**, Burbank AJ, Alexis NE, Rebuli ME, Hickman ED, Jaspers I, Guidos G. Electronic Cigarettes and Their Impact on Allergic Respiratory Diseases: A Work Group Report of the AAAAI Environmental Exposures and Respiratory Health Committee. *J Allergy Clin Immunol Pract*. 2021 Feb 2;. doi: 10.1016/j.jaip.2020.12.065. PMID: 33547027.
20. **Hernandez ML**, Ivins S, Chason K, Burbank AJ, Rebuli ME, Kobernick A, Schworer SA, Zhou H, Alexis NE, Peden DB. Respiratory Effects of Sedentary Ozone Exposure at the 70 ppb

National Ambient Air Quality Standard: A Randomized Clinical Trial. *Am J Respir Crit Care Med.* 2021 Jan 5;. doi: 10.1164/rccm.202006-2597LE. PMID: 33400891.

21. Israel E, Cardet JC, Carroll JK, Fuhlbrigge AL, Pace WD, Maher NE, She L, Rockhold FW, Fagan M, Forth VE, Hernandez PA, Manning BK, Rodriguez-Louis J, Shields JB, Coyne-Beasley T, Kaplan BM, Rand CS, Morales-Cosme W, Wechsler ME, Wisnivesky JP, White M, Yawn BP, McKee MD, Busse PJ, Kaelber DC, Nazario S, **Hernandez ML**, Apter AJ, Chang KL, Pinto-Plata V, Stranges PM, Hurley LP, Trevor J, Casale TB, Chupp G, Riley IL, Shenoy K, Pasarica M, Calderon-Candelario RA, Tapp H, Baydur A. A randomized, open-label, pragmatic study to assess reliever-triggered inhaled corticosteroid in African American/Black and Hispanic/Latinx adults with asthma: Design and methods of the PREPARE trial. *Contemp Clin Trials.* 2020 Dec 11;101:106246. doi: 10.1016/j.cct.2020.106246. PMID: 33316456.
22. Latif T, Gonzalez L, Dieffenderfer J, Liao Y, **Hernandez M**, Misra V, Lobaton E, and Bozkurt A (2020, October). Preliminary Assessment of Human Biological Responses to Low-level Ozone. *IEEE SENSORS 2020.*
23. Martin-Fernandez M, García-Morato MB , Gruber C, Loza SM, Hayat Malik MN, Alsohime F, Alakeel A, Valdez R, Buta S, Buda G, Marti MA, Larralde M, Boisson B, Rodriguez MF, Qiu X, Chrabieh M, Al Ayed M, Al Muhsen S, Desai JV, Ferre EM, Rosenzweig SD, Amador-Borrero B, Bravo-Gallego LY, Olmer R, Merkert S, Bret M, Sood AK, Al-Rabiaah A , Temsah MH, Halwani R, **Hernandez M** , Pessler F, Casanova JL, Bustamante J, Lionakis MS , Bogunovic D. Systemic Type I IFN Inflammation in Human ISG15 Deficiency Leads to Necrotizing Skin Lesions. *Cell Rep* 2020 May 12;31(6):107633.
24. Cardet JC, Busse PJ, Carroll JK, Casale TB, Coyne-Beasley T, Dixon-Williams S, Fagan M, Forth VE, Fuhlbrigge AL, **Hernandez ML**, Kaelber D, Kaplan B, Lorenzi M, Madison S, Maher NE, Majewski K, Manning B, McKee MD, Nazario S, Pace WD, Pencina MJ, Rand CS, Rodriguez-Louis J, She L, Shields J, Teng JE, Wechsler ME, Wisnivesky JP, Yawn BP, Israel E. Adherence to adding inhaled corticosteroids to rescue therapy in a pragmatic trial with adults with asthma: A pilot study. *Ann Allergy Asthma Immunol.* 2020 May;124(5):487-493.
25. Ring B, Burbank AJ, Mills KH, Ivins S, Dieffenderfer J, **Hernandez ML**. Validation of an App-Based Portable Spirometer in Adolescents With Asthma. *J Asthma* 1-8 2019 Dec 10
26. Sood AK, Burbank AJ, Lawson M, Zhou H, Wells HB, Peden DB, **Hernandez ML**. Systemic inflammatory response to inhaled endotoxin does not correlate with airway response. *Respir Res.* 2019 Nov 12;20(1):252.
27. Burbank AJ, Vadlamudi A, Mills KH, Alt EM, Wells H, Zhou H, Alexis N, **Hernandez ML**, Peden DB. The glutathione-S-transferase mu-1 null genotype increases wood smoke-induced airway inflammation. *J Allergy Clin Immunol.* 2019 Jun;143(6):2299-2302
28. **Hernandez ML**. E-cigs: what are they and how are they impacting our youth? Published at <https://www.aaaai.org/conditions-and-treatments/library/allergy-library/electronic-cigarettes-allergy-asthma> Jan 2019
29. Robey BS, Eluri S, Reed CC, Jerath MR, **Hernandez ML**, Commins SP, Dellon ES. Subcutaneous immunotherapy in patients with eosinophilic esophagitis. *Ann Allergy Asthma Immunol* 2019 May;122(5):532-533.e3.

30. Sood AK, Burbank AJ, Duran CG, Enders K, Zhou H, Peden DB, **Hernandez ML**. Gamma tocopherol effect on LPS-induced sputum neutrophilia is not modified by BMI or GSTM1 genotype. *J Allergy Clin Immunol*. 2019 May;143(5):1937-1939.
31. Starliper N, Mohammadzadeh F, Songkakul T, **Hernandez M**, Bozkurt A, Lobaton E. Activity-Aware Wearable System for Power-Efficient Prediction of Physiological Responses. *Sensors (Basel)*. 2019 Jan 22;19(3).
32. **Hernandez ML**, Dhingra R, Burbank AJ, Todorich K, Loughlin CE, Frye M, Duncan K, Robinette C, Mills K, Devlin RB, Peden DB, Diaz-Sanchez D. Low-level ozone has both respiratory & systemic effects in African-American adolescents with asthma despite asthma controller therapy. *J Allergy Clin Immunol*. 2018 Dec;142(6):1974-1977.
33. Burbank AJ, Todorich K, Steele P, Rosen J, Zhou H, Frye M, Loughlin CE, Ivins S, Mills K, Dembnicki Massey L, Reeve BB, **Hernandez ML**. Age and African-American race impact the validity and reliability of The Asthma Control Test in persistent asthmatics. *Respir Res* 2018, Aug 15;19(1):152.
34. Steinbach E, **Hernandez ML**, Dellon ES. Eosinophilic esophagitis and the eosinophilic gastrointestinal diseases: Approach to Diagnosis and Management. *J Allergy Clin Immunol Pract*. 2018 Sep - Oct;6(5):1483-1495.
35. Wu EY, **Hernandez ML**, Jennette JC, Falk RJ. Eosinophilic Granulomatosis with Polyangiitis: Clinical Pathology Conference and Review. *J Allergy Clin Immunol Pract*. 2018 Sep - Oct;6(5):1496-1504
36. Immormino RM, Lauzier DC, Nakano H, **Hernandez ML**, Alexis NE, Ghio AJ, Tilley SL, Doerschuk CM, Peden DB, Cook DN, Moran TP. Neuropilin-2 regulates airway inflammatory responses to inhaled lipopolysaccharide. *Am J Physiol Lung Cell Mol Physiol*. 2018 Aug 1;315(2):L202-L211.
37. Sood AK, Kesic MJ, **Hernandez ML**. Electronic Cigarettes: One size does not fit all. *J Allergy Clin Immunol*. 2018; 141(6):1973-1982.
38. Burbank AJ, Duran CG, Pan Y, Burns P, Jones S, Jian Q, Yang C, Jenkins S, Wells H, Alexis N, Kesimer M, Bennett WD, Zhou Z, Peden DB, and **Hernandez ML**. Gamma tocopherol-enriched supplement reduces sputum eosinophilia and endotoxin-induced sputum neutrophilia in volunteers with asthma. *J Allergy Clin Immunol*. 2018; 141(4):1231-1238.
39. Burbank AJ, Sood A, Kesic MJ, Peden DB, and **Hernandez ML**. Environmental determinants of allergy and asthma in early life. *J Allergy Clin Immunol*. 2017; 140(1):1-12.
40. Burbank AJ, Duran CG, Almond M, Wells H, Jenkins S, Jiang Q, Yang C, Wang T, Zhou H, **Hernandez ML**, and Peden DB. A short course of gamma-tocopherol mitigates LPS-induced inflammatory responses in humans ex vivo. *J Allergy Clin Immunol*. 2017 May 12. PMID: 28506847.
41. Duran CG, Burbank AJ, Mills KH, Duckworth HR, Aleman MM, Kesic MJ, Peden DB, Pan Y, Zhou H, **Hernandez ML**. A proof-of-concept clinical study examining the NRF2 activator sulforaphane against neutrophilic airway inflammation. *Respir Res*. 2016 Jul 22;17(1):89

42. Burbank AJ, Grabich SC, Todorich K, Frye M, Loughlin C, Duncan KE, Robinette C, Mills KH, Peden DB, Diaz-Sanchez D, **Hernandez ML**. Impact of Aeroallergen Sensitization on Asthma Control in African-American Teens with Persistent Asthma. *Ann Allergy Asthma Immunol* 2016; 117(4):442-444.
43. Angelon-Gaetz KA, Richardson DB, Marshall SW, **Hernandez ML**. Exploration of the effects of classroom humidity levels on teachers' respiratory symptoms. *Int Arch Occup Environ Health*. *Int Arch Occup Environ Health*. 2016 Jul;89(5):729-37.
44. Drummond RA, Collar AL, Swamydas M, Rodriguez CA, Lim JK, Mendez LM, Fink DL, Hsu AP, Zhai B, Karauzum H, Mikelis CM, Rose SR, Ferre EM, Yockey L, Lemberg K, Kuehn HS, Rosenzweig SD, Lin X, Chittiboina P, Datta SK, Belhorn TH, Weimer ET, **Hernandez ML**, Hohl TM, Kuhns DB, Lionakis MS. CARD9-Dependent Neutrophil Recruitment Protects against Fungal Invasion of the Central Nervous System. *PLoS Pathog*. 2015 Dec 17;11(12):e1005293.
45. **Hernandez ML**, Leichtle A*, Pak K, Webster NJ, Wasserman SI, Ryan AF. The transcriptome of a complete episode of acute otitis media. *BMC Genomics*. 2015; Apr 3;16:259. *The authors contributed equally to this work.
46. Aleman, MM, Kesic, MJ, Mills KM, Peden, DB, **Hernandez ML**. The IL-1 axis is associated with airway inflammation after O₃ exposure in allergic asthmatics. *J Allergy Clin Immunol*. 2015 Oct;136(4):1099-101.
47. Yu J, **Hernandez ML**, Li H, Goktepe I, Robinette C, Auerbach A, Peden D, Ahmedna M. Allergenicity of roasted peanuts treated with a non-human digestive protease. *Food Res Int*. 2015; 69: 341-47.
48. **Hernandez ML**, Mills KM, Almond MT, Todoric K, Aleman MM, Zhang H, Zhou H, Peden DB. Interleukin-1 receptor antagonist reduces endotoxin-induced airway inflammation in human volunteers. *J Allergy Clin Immunol*. 2015; 135(2):379-85.
49. Todoric K, Bangdiwala S, Vadlamudi A, Alarcon L, **Hernandez ML**. Assessing asthma in African American children using the Asthma Control Test and the Childhood Asthma Control Test. *Ann Allergy Asthma Immunol*. 2015; 114(4):342-4.
50. Todoric K, Zhou H, Zhang H, Mills K, Peden DB, **Hernandez ML**. Body mass index correlates with pollutant-induced interleukin-1 β in sputum and blood. *Ann Allergy Asthma Immunol*. 2015; 114(3):251-3.
51. Wagner JG, Harkema J, Jiang Q, **Hernandez ML**, Peden DB. Two Faces of Vitamin E in the Lung – in support of gamma-tocopherol. *Am J Respir Crit Care Med* 2014; 190 (7): 841-842.
52. Mills K, Lay JC, Wu W, Robinette C, Kesic MJ, Dreskin SM, Peden DB, **Hernandez ML**. Vitamin E, γ -tocopherol, diminishes ex vivo basophil response to dust mite allergen. *Allergy*. 2014; 69(4):541-4.
53. Gillen E, Hassmiller Lich K, Yeatts KB, **Hernandez ML**, Smith TW, Lewis MA. Social Ecology of Asthma: Engaging Stakeholders in Integrating Health Behavior Theories and Practice-Based Evidence Through Systems Mapping. *Health Educ Behav*. 2014; 41(1):63-77.

54. Bennett WD, Herbst M, Zeman KL, Wu J, **Hernandez ML**, Peden DB. Effect of Inhaled Endotoxin on Regional Particle Deposition in Mild Asthmatics. *J Allergy Clin Immunol*, 2013; 131(3):912-3.
55. **Hernandez ML**, Wagner JG, Aline Kala R, Mills K, Wells HB, Alexis NE, Lay JC, Jiang Q, Zhang H, Zhou H, Peden DB. Vitamin E Gamma-tocopherol Reduces Airway Neutrophil Recruitment after Inhaled Endotoxin Challenge in Rats and in Healthy Volunteers. *Free Radic Biol Med*. 2013; 60:56-62.
56. Alexis NE, Lay JC, Zhou H, Kim CS, **Hernandez ML**, Kehrl H, Hazucha MJ, Devlin RB, Diaz-Sanchez D, Peden DB. The glutathione-S-transferase mu 1 (GSTM1) null genotype and increased neutrophil response to low-level ozone (0.06 ppm). *J Allergy Clin Immunol*. 2013; 131(2):610-2.
57. **Hernandez ML**, Herbst M, Lay JC, Alexis NE, Brickey WJ, Ting JPY, Zhou H, and Peden DB. Atopic asthmatics have reduced airway inflammatory cell recruitment after inhaled endotoxin challenge compared to healthy volunteers. *J Allergy Clin Immunol*. 2012; 130(4):869-76.
58. Auerbach AR and **Hernandez ML**. The effect of environmental oxidative stress on airway inflammation. *Curr Opin Allergy Clin Immunol*. 2012; 12L:133-139.
59. Kesic MJ, **Hernandez ML**, Jaspers I. Airway protease/antiprotease imbalance in atopic asthmatics contributes to increased influenza A virus cleavage and replication. *Respir Res*. 2012; 13:82.
60. **Hernandez ML**, Brickey WJ, Alexis NE, Fry RC, Rager JE, Zou B, Ting JPY, *Zhou H and *Peden DB. Airway cells from atopic asthmatics exposed to ozone display an enhanced innate immune gene profile. *J Allergy Clin Immunol*. 2012; 129(1):259-261.e2. *The authors contributed equally to this work.
61. Leichtle A, **Hernandez M**, Lee J, Pak K, Webster NJ, Wollenberg B, Wasserman SI, Ryan AF. The role of DNA sensing and innate immune receptor TLR9 in otitis media. *Innate Immun*. 2012; 18(1):3-13.
62. Brickey WJ, Alexis NE, **Hernandez ML**, Reed W, Ting JPY, Peden DB. Sputum Inflammatory Cells from Persons with Allergic Rhinitis and Asthma Have Decreased Inflammasome Gene Expression. *J Allergy Clin Immunol*. 2011;128(4):900-3.
63. Bennett WD, Herbst M, Alexis NE, Zeman KL, Wu J, **Hernandez ML**, Peden DB. Effect of inhaled dust mite allergen on regional particle deposition and mucociliary clearance in allergic asthmatics. *Clin Exp Allergy*. 2011; 41(12):1719-28.
64. Esther, CE, Alexis NE, Peden DB, and **Hernandez ML**. Airway purinergic responses in healthy, atopic non-asthmatic, and atopic asthmatic subjects exposed to ozone. *Inhal Toxicol*. 2011; 23(6):324-30.
65. Dillon, MA, Harris, B, **Hernandez ML**, Zou B, Reed W, Bromberg PA, Devlin RB, Diaz-Sanchez D, Kleeberger S, Zhou Z, Lay, JC, Alexis, NE and Peden DB. Enhancement of systemic and sputum granulocyte response to inhaled endotoxin in persons with the GSTM1 null genotype. *Occup Environ Med*. 2011; 68(10):783-5.

66. Ebmeyer J, Leichtle A, **Hernandez M**, Ebmeyer U, Husseman J, Pak K, Sudhoff H, Broide D, Wasserman SI, Ryan AF. TNFA deletion alters apoptosis as well as caspase 3 and 4 expression during otitis media. *BMC Immunol.* 2011; 12(1):12.
67. **Hernandez ML**, Lay JC, Harris BD, Esther Jr. CR, Brickey J, Bromberg PA, Diaz-Sanchez D, Devlin RB, Kleeberger SR, Alexis NE, Peden DB. Atopic Asthmatics but not atopics without asthma have enhanced inflammatory response to ozone. *J Allergy Clin Immunol.* 2010; 126(3):537-44.e1
68. **Hernandez ML***, Harris B*, Lay JC*, Bromberg PA, Diaz-Sanchez D, Devlin RB, Kleeberger SR, Alexis NE, and Peden DB. Comparative Airway Inflammatory Response of Normal Volunteers to Ozone and LPS Challenge. *Inhal Toxicol.* 2010; 22(8):648-56. *The authors contributed equally to this work.
69. Alexis NE, Lay JC, Hazucha M, Harris B, **Hernandez ML**, Bromberg PA, Kehrl H, Diaz-Sanchez D, Kim C, Devlin RB, Peden DB. Low-level ozone exposure induces airways inflammation and modifies cell surface phenotypes in healthy humans. *Inhal Toxicol.* 2010; 22(7):593-600.
70. Leichtle A*, **Hernandez M***, Ebmeyer J, Yamasaki K, Lai Y, Radek K, Choung YH, Euteneuer S, Pak K, Gallo R, Wasserman SI, Ryan AF. CC Chemokine Ligand 3 Overcomes the Bacteriocidal and Phagocytic Defect of Macrophages and Hastens Recovery from Experimental Otitis Media in TNF-/- Mice. *J Immunol.* 2010; 184(6):3087-97. *The authors contributed equally to this work.
71. Alexis NE, Zhou H, Lay JC, Harris B, **Hernandez ML**, Lu TS, Bromberg PA, Diaz-Sanchez D, Devlin RB, Kleeberger SR, Peden DB. The Glutathione-S-Transferase Mu 1 null genotype modulates ozone-induced airway inflammation in humans. *J Allergy Clin Immunol.* 2009;124(6):1222-1228.e5.
72. Leichtle A, **Hernandez M**, Pak K, Webster NJ, Wasserman SI, Ryan AF. The toll-Like receptor adaptor TRIF contributes to otitis media pathogenesis and recovery. *BMC Immunol.* 2009;10:45
73. Leichtle A*, **Hernandez M***, Pak K, Yamasaki K, Cheng CF, Webster NJ, Ryan AF, Wasserman SI. TLR4-mediated induction of TLR2 signaling is critical in the pathogenesis and resolution of otitis media. *Innate Immun.* 2009;15(4):205-15. *The two authors contributed equally to this work.
74. **Hernandez ML**, Zhou H, Robinette C, Zhou B, Hatch G, Alexis N, and Peden D. Combination treatment with high dose ascorbate and alpha tocopherol does not enhance airway ascorbate levels in asthmatics. *Inhal Toxicol.* 2009;21(3):173-81.
75. Gruber TA, Shah AJ, **Hernandez ML**, Crooks GM, Abdel-Azim H, Gupta S, McKnight S, White D, Kapoor N, Kohn DB. Clinical and genetic heterogeneity in Omenn syndrome and severe combined immune deficiency. *Pediatr Transplant.* 2009;13(2):244-50.
76. **Hernandez ML***, Leichtle A*, Pak K, Ebmeyer J, Euteneuer E, Obonyo M, Guiney DG, Webster N, Broide DH, Ryan AF and Wasserman SI. Innate immune signaling via MyD88 is required for the resolution of otitis media. *J Infect Dis.* 2008; 198(12):1862-9. *The two authors contributed equally to this work.

77. **Hernandez ML**, Passas HJ, Smith LG. Clonal analysis of epidermal patterning during Maize leaf development. *Dev Biol.* 1999; 216: 646-658.