

CURRICULUM VITAE

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EDUCATION AND TRAINING

Undergraduate

| | | | |
|------------|------------------------------------|----|-----------------|
| 1987 -1992 | Brown University Providence, RI | AB | Russian Studies |
|------------|------------------------------------|----|-----------------|

Graduate

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|-------------|--|--------|------------------------------|
| 2000 - 2002 | Mailman School of Public Health Columbia University New York, NY | M.P.H. | Environmental Health |
| 2002 - 2007 | Harvard T.H. Chan School of Public Health, Harvard University Boston, MA | Sc.D. | Occupational Epidemiology |

Post-Graduate

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|-------------|--|-------------------------|---------------------------------------|
| 2007 - 2008 | Harvard T.H. Chan School of Public Health, Harvard University Boston, MA | Postdoctoral Fellow | Environmental Epidemiology |
| 2008 - 2011 | University of California, San Francisco, San Francisco, CA | Postdoctoral Scholar | Placental and Stem Cell Biology |

APPOINTMENTS AND POSITIONS

Academic

| | | |
|----------------|--|--|
| 2012 - 2013 | Department of Obstetrics/Gynecology and Reproductive Sciences, School of Medicine, University of California, San Francisco, San Francisco, CA | Assistant Adjunct Professor, Step 3 |
| 2013 - Present | Department of Epidemiology Graduate School of Public Health, University of Pittsburgh, Pittsburgh, PA | Assistant Professor, tenure stream |
| 2014 - Present | Obstetrics/Gynecology and Reproductive Sciences, School of Medicine, University of Pittsburgh Pittsburgh, PA | Assistant Professor |

Non-Academic

| | | |
|-------------|---|---|
| 1993 – 1994 | ISAR: Clearinghouse on Grassroots Cooperation in Eurasia | Volga Region Representative |
| 1995 – 1998 | CEC International Partners | Director U.S. - Russian EcoBridge Environmental Programs |
| 1998 – 2000 | Harvard School of Public Health Boston, MA | U.S. - Russia Project Coordinator Department of Environmental Health |

MEMBERSHIP IN PROFESSIONAL AND SCIENTIFIC SOCIETIES

| | |
|----------------|---|
| 2013 - Present | Member, The Endocrine Society |
| 2014 - Present | Member, The Society for Epidemiologic Research |
| 2014 - 2017 | Member, The Society for Pediatric and Perinatal Epidemiology |

HONORS

- 2006 Best student poster, 20th Annual Poster and Exhibit Day, Harvard School of Public Health
- 2006 *Participant*, 2nd Annual Summer Institute in Maternal-Fetal Pharmacology, sponsored by the National Institute of Child Health and Human Development and the Canadian Institutes of Health Research (IHDCYH).
- 2007 Trainee award, Summit on Environmental Challenges to Reproductive Health and Fertility, Department of Obstetrics, Gynecology and Reproductive Sciences, UCSF and the National Collaborative on Health and the Environment (CHE),
- 2008 Science Communication Fellow, Environmental Health Sciences
- 2009 Paper of Note (Adibi et al. AJE. 2009), Division of Extramural Research and Training (DERT), National Institute of Environmental Health Sciences
- 2011 K-Scholar, Clinical and Translational Science Institute (CTSI) K Scholars Program, University of California, San Francisco
- 2014 In-Training and Early Career Travel Grant, PPTOX IV, Endocrine Society
- 2015 Endocrine Society Outstanding Abstract Awards
- 2016 NIH Award, International Federation of Placenta Associations
- 2017 NIEHS Extramural Paper of the Month (Adibi et al. 2017. EHP)
- 2022 Rising Endocrine Disruptor Research Star, Gordon Research Conference on Environmental Endocrine Disruptors (postponed from 2020)

PROFESSIONAL ACTIVITIES

1. Teaching

a. Courses Taught

| Years Taught | Course Number: Title | Hours of Lecture, credits Average Enrollment | Role in course Primary/Coordinator |
|----------------|---|--|---------------------------------------|
| 2004 | EH 205: Human Physiology | 1 hour recitation per week, 12 weeks, 30 students | Teaching Assistant |
| 2004 | EH 236: Epidemiology of Environmental and Occupational Health Regulations | 2 hours per week, 15 students | Teaching Assistant |
| 2016 | EPIDEM 2213 Independent Study in Causal Mediation Literature | 2 hours per week, 1 student | Primary Instructor |
| 2018 - Present | EPIDEM 2602, Application of Molecular Biomarkers in Epidemiology | 8-week course, 2 hours per week in lecture, 2 hours per week in laboratory, 6 students | Primary Instructor |

b. Other Teaching (lectures, tutorials and continuing education courses)

| Date(s) | Type of Teaching | Title |
|----------------|---|----------------|
| 2013 - 2016 | EOH 2504, Principles of Environmental Exposure | Guest Lecturer |
| 2014 - Present | EPIDEM 2721, Research Seminar in Reproductive, Perinatal and Pediatric Epidemiology | Guest Lecturer |
| 2015 - Present | EPIDEM 2720, Reproductive Epidemiology | Guest Lecturer |
| 2016 - Present | EPIDEM 2160, Infectious Disease Epidemiology | Guest Lecturer |

| Date(s) | Type of Teaching | Title |
|----------------|--|----------------|
| 2017 | IDM 2038, Prevention, Treatment, and Control of Global Infectious Diseases | Guest Lecturer |
| 2017 - Present | EPIDEM 2600, Introduction to Molecular Epidemiology | Guest Lecturer |

c. Major Advisor for Graduate Student Essays, Theses, and Dissertations

| Name of Student | Degree Awarded, Year | Type of Document and Title | Notes |
|------------------------|---|---|---------------------------|
| Bethann Hromatka | Biomedical Sciences Graduate Program, UCSF (Ph.D. 2011) | Statistical analysis for dissertation project on placental malaria infection | Mentor |
| Hsinghua Sylvia Lin | Epidemiology (Ph.D. 2017) | Class project: Fast food and rising urinary phthalate metabolites among U.S. adults (1 st place, Doctoral student, Dean's Day 2015) | Mentor |
| Ethan Blum | Epidemiology (M.P.H. 2016) | Masters thesis: Maternal race, neighborhood environment and risk of preeclampsia (1 st place, Masters student, Health Disparities Poster Contest 2016) | Thesis Advisor |
| Li Ann Lai | Epidemiology (M.P.H. 2018) | Mediation analysis, biomarker analysis in birth cohort study | Independent Study Advisor |
| Abigail Cartus | Graduate student researcher (2016 - 2018) | Biomarker analyses in birth cohort studies, transcriptome analysis | GSR Advisor |
| Alyssa Monaghan | Epidemiology (M.P.H. 2018) | Masters thesis: Sleep and the Risk of Obesity | Advisor |
| Tori Powell | Environmental and Occupational Health (M.S. 2018) | Laboratory training in the study of Zika virus and placental biology | Independent Study Advisor |

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|--------------------------|---|--|-------------------------------|
| Kharlya Carpio | Epidemiology (M.S. 2020) | Analysis of placental tissue biomarkers | Independent Study advisor |
| Marisa Millenson, M.S. | Epidemiology (Ph.D. expected 2023, M.D. expected 2025) | Manuscript: Preconception maternal body mass index and congenital heart disease: laying the foundation for a study on placental mediation | Advisor |
| Hai-Wei Liang, M.S. | Epidemiology (Ph.D. expected 2023) | Endocrine disruption in pregnancy | Advisor |
| Alexander Layden | Epidemiology (Ph.D. expected 2022, M.D. expected 2024) | Maternal adiposity, placental biomarkers, and preterm labor | Committee Member, Lab Advisor |
| Alexandra Miragaia, M.D. | Epidemiology (Ph.D. expected, Leave of Absence) | Viral infection in pregnancy and child neurodevelopment | Advisor |
| Xiaoshuang Xun, M.P.H. | Graduate Student Researcher, Epidemiology (Ph.D. expected 2022) | Biomarkers in birth cohort studies, mediation analysis, modeling exposures as mixtures | Advisor |
| Qing Yin, M.S. | Graduate Student Researcher, Biostatistics (Ph.D. expected 2021) | Development of 1) statistical methods to identify shape of association between exposure-outcome, and 2) causal mediation method for non-linear mediator-outcome relationship | Co-mentor, Committee Member |

d. Service on Masters or Doctoral Committees

| Dates Served | Name of Student | Degree Awarded | Title of Dissertation/Essay |
|---------------------|------------------------|-----------------------|------------------------------------|
|---------------------|------------------------|-----------------------|------------------------------------|

| Dates Served | Name of Student | Degree Awarded | Title of Dissertation/Essay |
|---------------------|-------------------------------------|--|--|
| 2014 - 2016 | Ethan Blum | M.S. – Epidemiology (2016) | Topic: Race disparity in the risk of preeclampsia and the impact of neighborhood indicators. |
| 2017 | Noel Britton | M.P.H. – Epidemiology (2017) | Topic: The microbiome and risk of Sarcoidosis |
| 2017 - 2018 | Matthew Good | M.S. - Infectious Disease and Microbiology (2018) | Topic: The role of human dendritic cells in Zika infection |
| 2017 - 2018 | Li An Lai | M.S. – Epidemiology (May 2018) | Topic: Phthalates, placental-fetal hormones, and genital development |
| 2019 - 2020 | Lei Zhu (Evelyn Talbott) | Ph.D. – Epidemiology (2020) | Topic: Air pollution and risk of PCOS during the menopausal transition |
| 2019 - Present | Alex Layden (Janet Catov) | M.D./Ph.D. Candidate | Topic: Maternal adiposity, placental inflammation and the risk of preterm labor. |
| 2020 - Present | Claire Thomas (Jian-Min Yuan) | Ph.D. Candidate | Topic: Bile acids relationship to HCC risk through NAFLD and HBV related disease using molecular, genetic, and mediation epidemiologic methods |

e. Service on Comprehensive or Qualifying Examination Committees

| Dates Served | Student Population | Type of Exam (Qualifying/Comprehensive) |
|---------------------|--|---|
| 2019 - 2020 | 1 Ph.D. Epidemiology | Overview, Comprehensive |
| 2020 - 2021 | 1 Ph.D. Biostatistics, 3 Ph.D. Epidemiology | Overview, Comprehensive |

f. Supervision of Post-Doctoral Students, Residents, and Fellows

| Dates Supervised | Name of Student | Position of Student |
|-------------------------|---------------------------|--|
| 2012 – 2013 | Lei (Vanessa) Zhan | CIRM Fellow, Placental and stem cell biology |
| 2019 - Present | Rahel Birru, Ph.D., (EOH) | Epidemiology, Placental biomarkers |

g. Mentoring of Graduate Students in Field Placements

| Dates | Name of Student | Degree/Program Description | Field Site |
|--------------|------------------------|--|--|
| 2015 - 2016 | Rahel Birru | Doctoral candidate, Environmental and Occupational Health | Schweitzer Environmental Fellow, worked on PeaPod survey and project development, ran high school workshops on safety and personal care products. |

h. Other Teaching and Training

| Dates | Teaching Activity | Program/Description |
|--------------|---|---|
| 2017 - 2020 | Mentor and Honors Thesis Advisor to Megan Smith, B.S. | Department of Biological Sciences, University of Pittsburgh Title: Sex-specific role of phthalates in altering the first trimester relationship between PPAR γ and human chorionic gonadotropin |
| 2018 - 2021 | Mentor to Pooja Gupta, B.S. | Department of Biological Sciences, University of Pittsburgh rotation in lab |

2. Research and Training

a. Grants and Contracts Received

Principal Investigator

| Years Inclusive | Grant and/or Contract Number and Title | Source | Annual Direct Costs | % Effort |
|-------------------------|--|--|----------------------------|-----------------|
| Current | | | | |
| 2021 - 2022 | Urgent Competitive Revision for NIH Grants to Add or Expand Research Focused on Maternal Health, Structural Racism and Discrimination, and COVID-19 (pending, good review) | NIEHS/OD, NIH | \$374,891 | 25% |
| 2018 - 2023 | R01ES029336 Placental origins of phthalate-induced changes in fetal reproductive development | NIEHS | \$488,108 | 25% |
| Past | | | | |
| 2018 | Bridge Funding | Vice Chancellor for the Health Sciences | \$54,000 | 0% |
| 2016 – 2018 | R56ES025728-01A1 Placental molecule secretions measured in early pregnancy are targets of endocrine disruption and are indicators of sex-specific fetal development | NIEHS | \$150,000 | 0% |
| 2016 - 2018 | Probing Zika's impact on first trimester placental interferons | University of Pittsburgh Graduate School of Public Health Cura Zika Alliance | 20,000 | 0% |
| 06/01/2014 - 06/30/2016 | Applying RNA sequencing technology to gain novel insights into sex-specific placental-fetal interactions in response to phthalate exposure | University of Pittsburgh Central Research Development Fund | \$15,000 | 0% |

| Years Inclusive | Grant and/or Contract Number and Title | Source | Annual Direct Costs | % Effort |
|-------------------------|---|---|----------------------------|-----------------|
| 2014 - 2015 | Laboratory of Environmental Health, Reproduction, and Development | Office of the Senior Vice Chancellor for the Health Sciences, University of Pittsburgh Capital Project Award | \$108,050 | |
| 06/01/2012 - 05/31/2013 | 73794 Prenatal Screening Markers (PSMs) as population-level measures of placental function and phthalate-induced perturbations | Mount Zion Health Fund | \$31,110 | |
| 03/16/2012 - 02/28/2016 | 4R00ES017780-03 Phthalates and Trophoblast Differentiation: from biology to biomarkers | NIEHS | \$747,000 | |
| 02/01/2012 - 05/13/2016 | The effects of phthalate exposure on placental development in early pregnancy: a unified approach combining in vitro and in vivo analyses | Pilot Research Awards for Early Career Investigators utilizing the CTSI - Clinical Research Services NIH/NCRR | \$10,000 | |
| 01/01/2012 - 12/31/2012 | Phthalate mixtures in early pregnancy and effects on placental-fetal interactions | Science Innovation Fund, The Passport Foundation | \$40,840 | |
| 01/01/2010 - 12/31/2011 | 1K99 ES017780-01 Effects of Phthalates on Trophoblast Differentiation: From Biology to Biomarkers | NIEHS | \$180,000 | 75% |

Co-Investigator on Grants

| Years Inclusive | Grant and/or Contract Number and Title | Source | Annual Direct Costs | % Effort |
|------------------------|--|---------------|----------------------------|-----------------|
| 2016 - 2018 | 1UG3OD023271-01 Prenatal and Early Childhood Pathways to Health | NIH | \$11,538 | 5% |

b. Invited Lectureships and Major Seminars Related to Your Research

| Date | Title of Presentation | Venue |
|-------------|--|--|
| 2016 | The Placenta: A Battleground of Viruses, Plastics, and Hormones | Keystone Seminar Series, National Institute of Environmental Health Sciences, Research Triangle Park, NC |
| 2017 | Building Bridges between Epidemiology and Toxicology: Pregnancy, Phthalates, and the Health of the Child | Toxicology Seminar Series, University of Illinois, Urbana, IL |
| 2018 | Placental hormones: a short-term alert system to the long-term health effects of chemical exposures in pregnancy | One Health One Planet Symposium: Health Impacts: Chemicals of Concern in the Environment. Phipps Conservatory, Pittsburgh, PA |
| 2018 | Placental Endocrine Disruption: A critical link between maternal exposure and child health | Michigan Center on Lifestage Environmental Exposures and Disease (M-LEEaD), Ann Arbor, MI |
| 2019 | Teratogenicity: In search of a universal model of the placental role from known mechanisms | Teratology Society annual meeting. Symposium, Environmental Exposures from Placenta to Birth: Effects on Immunity. San Diego, CA |
| 2021 | Invited speaker | Diagnosis and Pathogenesis of Birth Defects: Teratogenic vs. Genetic Effects. Society for Pediatric Pathology, Portland, OR |

c. Other Research and Training Activities

| Date | Position | Description of Activity |
|-------------------------------|-----------------|--|
| 2003 - 2005 (intermittent) | Trainee | Female Reproductive Toxicology Laboratory, National Institute of Environmental Health Sciences (PI: Dr. Barbara Davis), Research Triangle Park, NC |
| 2004 - 2008 (intermittent) | Trainee | Bhat Lab, Department of Environmental Health Sciences, Mailman School of Public Health (PI: Dr. Hari Bhat), New York, NY |

PUBLICATIONS

1. Refereed Articles

1. **Adibi JJ**, Xun X, Zhao Y, Yin Q, LeWinn K, Bush NR, Panigrahy A, Peddada S, Alfthan H, Stenman UH, Tylavsky F, Koistinen H. Second-Trimester Placental and Thyroid Hormones Are Associated With Cognitive Development From Ages 1 to 3 Years. *Journal of the Endocrine Society*. 2021 Feb 23; 5(5):bvab027. PMID: 33928202.
2. O'Connor T, Best M, Brunner J, Ciesla AA, Cuning A, Kapula N, Kautz A, Khoury L, Macomber A, Meng Y, Miller RK, Murphy H, Salafia CM, Vallejo Sefair A, Serrano J, Barrett E; UPSIDE study: **Adibi J**, Aleksunes L, Caserta M, Groth S, Katzman P, Pressman E, Qiu X, Rivera-Nunez Z, Scheible K, Shah R, Thornburg L, Thurston S. Cohort profile: Understanding Pregnancy Signals and Infant Development (UPSIDE): a pregnancy cohort study on prenatal exposure mechanisms for child health. *BMJ Open*. 2021 Apr 1; 11(4):e044798. PMID: 33795306.
3. **Adibi JJ**, Zhao Y, Zhan LV, Kapidzic M, Larocque N, Koistinen H, Huhtaniemi IT, Stenman UH. An Investigation of the Single and Combined Phthalate Metabolite Effects on Human Chorionic Gonadotropin Expression in Placental Cells. *Environmental Health Perspectives*. 2017 Oct 31; 125(10):107010. PMID: 29089286.
4. **Adibi JJ**, Buckley JP, Lee MK, Williams PL, Just AC, Zhao Y, Bhat HK, Whyatt RM. Maternal urinary phthalates and sex-specific placental mRNA levels in an urban birth cohort. *Environmental Health: A Global Access Science Source*. 2017 Apr 5; 16(1):35. PMID: 28381288.
5. **Adibi JJ**, Lee MK, Saha S, Boscardin WJ, Apfel A, Currier RJ. Fetal sex differences in human chorionic gonadotropin fluctuate by maternal race, age, weight and by gestational age. *Journal of Developmental Origins of Health and Disease*. 2015 Dec; 6(6):493-500. PMID: 26242396.
6. **Adibi JJ**, Lee MK, Naimi AI, Barrett E, Nguyen RH, Sathyanarayana S, Zhao Y, Thiet MP, Redmon JB, Swan SH. Human Chorionic Gonadotropin Partially Mediates Phthalate Association With Male and Female Anogenital Distance. *The Journal of Clinical Endocrinology and Metabolism*. 2015 Sep; 100(9):E1216-24. PMID: 26200238.
7. Hromatka BS, Ngeleza S, **Adibi JJ**, Niles RK, Tshetu AK, Fisher SJ. Histopathologies, immunolocalization, and a glycan binding screen provide insights into Plasmodium falciparum interactions with the human placenta. *Biology of Reproduction*. 2013 Jun 20; 88(6):154. PMID: 23575149.
8. Whyatt RM, Liu X, Rauh VA, Calafat AM, Just AC, Hoepner L, Diaz D, Quinn J, **Adibi J**, Perera FP, Factor-Litvak P. Maternal prenatal urinary phthalate metabolite concentrations and child mental, psychomotor, and behavioral development at 3 years of age. *Environmental Health Perspectives*. 2012 Feb; 120(2):290-5. PMID: 21893441.
9. Just AC, **Adibi JJ**, Rundle AG, Calafat AM, Camann DE, Hauser R, Silva MJ, Whyatt RM. Urinary and air phthalate concentrations and self-reported use of personal care products among minority pregnant women in New York City. *Journal of Exposure Science & Environmental Epidemiology*. 2010 Nov; 20(7):625-33. PMID: 20354564.

10. **Adibi JJ**, Whyatt RM, Hauser R, Bhat HK, Davis BJ, Calafat AM, Hoepner LA, Perera FP, Tang D, Williams PL. Transcriptional biomarkers of steroidogenesis and trophoblast differentiation in the placenta in relation to prenatal phthalate exposure. *Environmental Health Perspectives*. 2010 Feb; 118(2):291-6. PMID: 20123604.
11. Whyatt RM, **Adibi JJ**, Calafat AM, Camann DE, Rauh V, Bhat HK, Perera FP, Andrews H, Just AC, Hoepner L, Tang D, Hauser R. Prenatal di(2-ethylhexyl)phthalate exposure and length of gestation among an inner-city cohort. *Pediatrics*. 2009 Dec; 124(6):e1213-20. PMID: 19948620.
12. **Adibi JJ**, Hauser R, Williams PL, Whyatt RM, Thaker HM, Nelson H, Herrick R, Bhat HK. Placental biomarkers of phthalate effects on mRNA transcription: application in epidemiologic research. *Environmental Health : A Global Access Science Source*. 2009 Apr 23; 8:20. PMID: 19389254.
13. **Adibi JJ**, Hauser R, Williams PL, Whyatt RM, Calafat AM, Nelson H, Herrick R, Swan SH. Maternal urinary metabolites of Di-(2-Ethylhexyl) phthalate in relation to the timing of labor in a US multicenter pregnancy cohort study. *American Journal of Epidemiology*. 2009 Apr 15; 169(8):1015-24. PMID: 19251754.
14. **Adibi JJ**, Whyatt RM, Williams PL, Calafat AM, Camann D, Herrick R, Nelson H, Bhat HK, Perera FP, Silva MJ, Hauser R. Characterization of phthalate exposure among pregnant women assessed by repeat air and urine samples. *Environmental Health Perspectives*. 2008 Apr; 116(4):467-73. PMID: 18414628.
15. **Adibi JJ**, Perera FP, Jedrychowski W, Camann DE, Barr D, Jacek R, Whyatt RM. Prenatal exposures to phthalates among women in New York City and Krakow, Poland *Environmental Health Perspectives*. 2003 Nov; 111(14):1719-22. PMID: 14594621.
16. Akhmedkhanov A, Revich B, **Adibi JJ**, Zeilert V, Masten SA, Patterson DG Jr, Needham LL, Toniolo P. Characterization of dioxin exposure in residents of Chapaevsk, Russia. *Journal of Exposure Analysis and Environmental Epidemiology*. 2002 Nov; 12(6):409-17. PMID: 12415489.
17. Schecter A, Piskac AL, Grosheva EI, Matorova NI, Ryan JJ, Fürst P, Pöpke, **Adibi J**, Pavuk M, Silver A, Ghaffar S. Levels of dioxins and dibenzofurans in breast milk of women residing in two cities in the Irkutsk Region of Russian Siberia compared with American levels. *Chemosphere*. 2002 Apr; 47(2):157-64. PMID: 11993631.
18. Schecter A, Pavuk M, Amirova DA, Grosheva EI, Pöpke, Ryan JJ, **Adibi J**, Piskac AL. Characterization of dioxin exposure in firefighters, residents, and chemical workers in the Irkutsk Region of Russian Siberia. *Chemosphere*. 2002 Apr; 47(2):147-56. PMID: 11993630.

2. Books and Book Chapters

3. Published Proceedings

1. **Adibi J**, Xun X, Carroll K, Adgent M, Lewinn K, Peddada S, Zoeller T, Tylavsky F, Koistinen H, Stenman UH. SAT-229 HCG Alpha Might Supplant TSH during the Fetal Period to Promote Brain Development. *Journal of the Endocrine Society*, Volume 3, Issue Supplement_1, April-May 2019, SAT-229, <https://doi.org/10.1210/js.2019-SAT-229>

2. **Adibi J**, Burton GJ, Clifton V, Collins S, Frias AE, Gierman L, Grigsby P, Jones H, Lee C, Maloyan A, Markert UR, Morales-Prieto DM, Murthi P, Myatt L, Pollheimer J, Roberts V, Robinson W, Salafia C, Schabel M, Shah D, Sled J, Vaillancourt C, Weber M, O'Tierney-Ginn PF. IFPA meeting 2016 workshop report II: Placental imaging, placenta and development of other organs, sexual dimorphism in placental function and trophoblast cell lines. *Placenta*. 2017 Dec; 60 Suppl 1:S10-S14. PMID: 28284454.

4. Invited Articles

1. **Adibi JJ**, Layden AJ, Yin Q, Xun X, Peddada S, Birru RL. A toolkit for the application of placental-fetal molecular biomarkers in epidemiologic studies of the fetal origins of chronic disease. *Current Epidemiology Reports*. 2021 Mar; 8(1):20-31. PMID: 33777648

2. **Adibi JJ**, Zhao Y. Placental Transfer of Maternal Obesity: Identifying the Gatekeeper. *Endocrinology*. 2017 Aug 1; 158(8):2439-2440. PMID: 28838142.

3. **Adibi JJ**, Zhao Y, Cartus AR, Gupta P, Davidson LA. Placental Mechanics in the Zika-Microcephaly Relationship. *Cell Host & Microbe*. 2016 Jul 13; 20(1):9-11. PMID: 27414496.

4. Yin Q, Xun X, Peddada SD, **Adibi JJ**. c. Sankhya B 83, 65–85 (2021). <https://doi.org/10.1007/s13571-020-00246-7>.

5. **Adibi JJ** et al. A biomarker-based approach to quantify phthalate effects on first trimester human placental mRNAs and proteins. *Reproduction*. 2021. (in preparation)

5. Review Articles

1. Birru RL, Liang HW, Farooq F, Bedi M, Feghali M, Haggerty CL, Mendez DD, Catov JM, Ng CA, **Adibi JJ**. A pathway level analysis of PFAS exposure and risk of gestational diabetes mellitus. *Environmental Health: A Global Access Science Source*. 2021 May 22; 20(1):63. PMID: 34022907.

2. **Adibi JJ**, Layden AJ, Birru RL, Miragaia A, Xun X, Smith MC, Yin Q, Millenson ME, O'Connor TG, Barrett ES, Snyder NW, Peddada S, Mitchell RT. First trimester mechanisms of gestational sac placental and foetal teratogenicity: a framework for birth cohort studies. *Human Reproductive Update*. 2021 Mar 1; dmaa063. PMID: 33675653.

3. **Adibi JJ**, Marques ETA Jr, Cartus A, Beigi RH. Teratogenic effects of the Zika virus and the role of the placenta. *Lancet (Lond)*. 2016 Apr 9; 387(10027):1587-1590. PMID: 26952548.

6. Published Abstracts

7. Presentations

1. Grand Rounds, Department of Obstetrics and Gynecology, University of Rochester; Rochester, NY, 2008.
2. Current Topics in Reproductive and Child Health Seminar Series, Division of Epidemiology, Statistics, and Prevention Research (DESPR), National Institute of Child Health and Development (NICHD), 2008.
3. **Adibi JJ**. Chorionic trophoblasts: a site for understanding forces driving placental development and interactions with environmental toxins. Retreat of the UCSF Center for Reproductive Sciences; San Francisco, CA, 2010
4. Magee Women's Research Institute; Pittsburgh, PA, 2011.
5. UCSF Center for Reproductive Sciences Work in Progress; San Francisco, CA, 2011.
6. Retreat of the UCSF Center for Reproductive Sciences; San Francisco, CA, 2012.
7. Department of Epidemiology, University of Pittsburgh Graduate School of Public Health; Pittsburgh, PA, 2012.
8. Kaiser Permanente Division of Research; Oakland, CA, 2012.
9. March of Dimes Prematurity Center, Stanford University School of Medicine; Stanford, CA, 2012.
10. Department of Preventive Medicine, Icahn School of Medicine at Mt. Sinai; New York, NY, 2013.
11. UCSF Center for Reproductive Sciences Work in Progress; San Francisco, CA, 2013.
12. Department of Pathology and Laboratory Medicine, Brown University; Providence RI, 2013.
13. **Adibi J**, Gormley M, Thomas S, Zhan L, Winn V, Fisher S. Sexual differentiation of the human placenta. Poster presented at the Endocrine Society Meeting, ENDO 2013; San Francisco, CA, 2013.
14. **Adibi JJ**. Environmental endocrine disruptors: placental-fetal interactions. Presented at the University of Pittsburgh, Graduate School of Public Health; Pittsburgh, PA, 2014.
15. **Adibi J**. Environmental endocrine disruptors: placental-fetal interactions. Presented at the Department of Environmental and Occupational Health Seminar Series, University of Pittsburgh Graduate School of Public Health; Pittsburgh, PA, 2014.
16. **Adibi J**. Clean Foods and the Fetus. Presented at Mission and Community Needs Committee, Magee-Womens Hospital of UPMC; Pittsburgh, PA, 2014.

17. **Adibi J.** Placental protein secretions measured in early pregnancy are targets of endocrine disruption and are indicators of sex-specific fetal development. Presented at Magee-Womens Research Institute's Work-in-Progress (WIP) Conference & Research Seminar Series; Pittsburgh, PA, 2014.
18. Community Form titled, "Protecting our Children's Health: How our Environment Plays a Role." Sponsored by Women for a Healthy Environment and The Heinz Endowments. Kaufmann Center, Hill House Association; Pittsburgh, PA, 2015.
19. Brown R, **Adibi J.** Getting the crap out of our bodies: clean diets for pregnant women. Presented at Kinks, Locks, and Twists Conference: Health. Beauty. Environment. Kaufmann Center, Hill House Association; Pittsburgh, PA, 2015.
20. **Adibi J,** Lee MK, Naimi AI, Barrett E, Nguyen R, Saperston K, Thiet M, Janssen S, Baskin L, Swan SH. Placental human chorionic gonadotropin is associated with sex-specific development and the response to the endocrine disruptor mono-n-butyl phthalate. Oral presentation at ENDO 2015; San Diego, CA, 2015.
21. Zhao Y, **Adibi J.** Plastics, Placentas, Genitals, and Small Nucleolar RNAs. Invited Speaker at Science 2015 - Unleashed! University of Pittsburgh; Pittsburgh, PA, 2015.
22. **Adibi J,** Zhao Y, Lee M, Stenman U, Huhtaniemi I, Zhan V, Kapidzic M, Bhat HK, Just AC, Whyatt RM, Fisher SJ. The placenta as a site of endocrine disruption: an association and its experimental confirmation. Poster presented at the Society of Epidemiologic Research; Denver, CO, 2015 Jun 17-19.
23. **Adibi J,** Kinnee EJ, Duan C, Lee M, Zhao Y, Saha SR, Weldon RH, Gunier R, Eskenazi B, Talbott E, Currier RJ, Clougherty JE. A spatio-temporal assessment of population-level pesticide use and its correlation with a sexually dimorphic placental hormone. Poster presented at the Society of Epidemiologic Research; Denver, CO, 2015 Jun 17-19.
24. **Adibi J,** Zhao Y, Lee M, Zhan V, Gerona R, Bais A. Invited Speaker at The Environment and Sexual Dimorphism. Presented at 9th World Congress of Developmental Origins of Health and Disease; Capetown, S. Africa, 2015.
25. Lin HS, Siminerio L, Denic H, Keich Y, **Adibi J.** Fast food and rising urinary phthalate metabolites among U.S. adults. Poster presented at the International Symposium of Environmental Medicine; Taiwan, 2015 Oct 16-17.
26. **Adibi J,** Zhao Y, Davidson LA, Garcez P, Gupta, P. Does the placenta help or hinder the effects of Zika on the unborn baby? Presented at Cura Zika Symposium, University of Pittsburgh Graduate School of Public Health; Pittsburgh, PA, 2016.
27. **Adibi J.** Bench to population: translating hCG biology to the sex-specific effects of endocrine disruptors on fetal development. Poster presented at the International Federation of Placenta Associations; Portland, OR, 2016 Sep 13-16.

28. Zhao Y, Davidson LA, Watkins SC, Lewis DW, Urban Z, **Adibi JJ**. A light shines through the trees: fluid-filled bulb formation from placental villous explants in long-term culture. Late breaking abstract and poster presentation at the International Federation of Placenta Associations; Portland, OR, 2016 Sep 13-16.
29. **Adibi JJ**. The Placenta: A Battleground of Viruses, Plastics, and Hormones? In National Institute of Environmental Health Sciences. Keystone Seminar Series; Research Triangle Park, NC. Retrieved from <https://factor.niehs.nih.gov/2016/10/science-highlights/placenta/index.htm>, 2016.
30. **Adibi JJ**. Zika virus and microcephaly: Old Biology and New Realities. Presented at the Spectroscopy Society of Pittsburgh, Duquesne University; Pittsburgh, PA, 2017.
31. **Adibi JJ**. Observing the Unobservable: A Biomarker-Based Approach to Fetal Origins Epidemiology. Department of Epidemiology Seminar Series, University of Pittsburgh Graduate School of Public Health; Pittsburgh, PA, 2017.
32. **Adibi JJ**. Placental hCG in early pregnancy is a sex-specific target of phthalate exposure and a mediator of development. Invited Speaker in 9th Copenhagen Workshop on Endocrine Disruptors; Copenhagen, Denmark, 2017.
33. Blum E, Mendez D, Roberts J, **Adibi JJ**. Identifying points of origin of race-related difference in preeclampsia risk using clinical and administrative data. Oral presentation at the Society for Epidemiologic Research; Seattle, Washington, 2017.
34. **Adibi JJ**, Zhao Y, Gerona R, Snyder N, Zhan L, Stenman UH. Gestational Sac Endocrinology: New Insights into First Trimester Placental Function before and after the Onset of Maternal Blood Flow, By Fetal Sex, and By Phthalate Exposure. Poster session presented at ENDO 2017; Orlando, FL, 2017 Apr 1.
35. Seminar series in Endocrine, Developmental & Reproductive Toxicology (Flaws Lab), University of Illinois; Urbana, IL, 2017.
36. One Health One Planet Symposium: Health Impacts: Chemicals of Concern in the Environment, Phipps Conservatory; Pittsburgh, PA, 2018.
37. **Adibi JJ**, Cartus AR, Kinnee E, Dodson Z, Zhao Y, Talbott E, Clougherty JE, Saha S. Can we learn about environmental risk to placental-fetal health from ZIP-code level pesticide exposure assignment? Society for Epidemiologic Research; Baltimore, MD, 2018 Jun 19-22.
38. Michigan Center on Lifestage Environmental Exposures and Disease (M-LEEaD), 2018.
39. Department of Environmental Health Sciences, Mailman School of Public Health, Columbia University; New York, NY, 2018.
40. International Society for Environmental Epidemiology Annual meeting. Symposium speaker, Diving deep: mechanisms of endocrine disruptors in pregnancy and relevant biomarkers; Ottawa, Canada, 2018.

41. **Adibi JJ**, Qing Y, Xun X, Bellavia A, Buckley J, Barrett E, Swan SH. Do Hormones Indicate Fetal Endocrine Disruption? Society for Reproductive Investigation; Paris, France, 2019 Mar 12-16.
42. **Adibi JJ**, Xun X, Carroll K, Adgent M, Lewinn K, Peddada S, Zoeller T, Tylavsky F, Koistinen H, Stenman UH. Does hCG-alpha supplant TSH during the fetal period to promote brain development? The Endocrine Society; New Orleans, LA, 2019 Mar 23-26.
43. Xun, X, Peddada S, Yin, Q., Swan SH, Barrett E, Bush N, Sathyanarayana S, **Adibi JJ**. The Role of Placental Human Chorionic Gonadotropin (hCG) in the Relationship Between Maternal First Trimester BMI and Birthweight. The Society for Perinatal and Pediatric Epidemiology; Minneapolis, MN, 2019 Jun 17-18.
44. Yin Q, Peddada SD, Xun X, Swan SH, Kioumourtzoglou MA, Barrett E, Sathyanarayana, **Adibi JJ**. Phthalate Concentrations and Placental Hormones: Comparing Two Multivariable Models. The Society for Perinatal and Pediatric Epidemiology; Minneapolis, MN, 2019 Jun 17-18.
45. Plastics and Health, Annual Fundraiser, Women for a Healthy Environment, Pittsburgh Golf Club; Pittsburgh, PA, 2019.
46. Teratology Society: Sea Changes in Birth Defects Research and Prevention. Symposium speaker, Environmental Exposures from Placenta to Birth: Effects on Immunity; San Diego, CA, 2019.
47. Yin Q, Xun X, **Adibi JJ**, Peddada SD. Semi-parametric Shape Restricted Mixed Effect Regression Spline with Application on State-Wide Prenatal Screening Program. Data. Poster presentation at Biostatistics Research Day 2020 (Honorable mention) and ENAR (Eastern North American Region International Biometric Society), 2020.
48. Liang HW, Snyder N, Birru R., Carroll K., Xun X., LeWinn K., Bush N, Tylavsky F, **Adibi JJ**. Reversal of association between prenatal phthalate levels and birth size when measuring phthalates in placental tissue versus maternal urine. Poster presentation at International Society for Environmental Epidemiology, 2020 Aug 23-27 (online).
49. Smith M, Snyder N, Birru R, **Adibi JJ**. Insight into a first trimester human placental mechanism of fetal endocrine disruption. Poster presentation at the International Society for Environmental Epidemiology, 2020 Aug 23-27 (online).
50. **Adibi JJ**, Birru R, Xun X, Snyder N, Mitchell R, O'Connor T, Barrett T. A 4-DAG approach to model first trimester exposures and child health outcomes. The Society for Epidemiologic Research (accepted as poster), 2020 Dec (online).
51. Layden AJ, Bertolet M, Parks WT, Roberts JM, **Adibi JJ**, Catov JM. Pre-pregnancy BMI associated with placental dysfunction in early but not late preterm birth. Poster presentation at Dean's Day 2021. Won first place in Doctoral category.
52. Layden AJ, Bertolet M, Parks WT, Roberts JM, **Adibi JJ**, Catov JM. Pre-pregnancy BMI associated with placental dysfunction in early but not late preterm birth. Oral presentation at the Society for Pediatric and Perinatal Epidemiologic Research, 2021 Jun (virtual).

53. Layden AJ, Bertolet M, Roberts JM, Parks WT, **Adibi JJ**, Catov JM. Gestational age trends in placental dysfunction among women with preeclampsia using a novel clustering approach. Oral presentation at the Society for Pediatric and Perinatal Epidemiologic Research, 2021 Jun (virtual).

54. Yin Q, Peddada SD, Jeong JH, **Adibi JJ**. Mediation Analysis Using Semiparametric Shape-Restricted Regression Spline. Oral presentation at the Biostatistics Research Day 2021 and American Statistical Association (ASA) Pittsburgh Chapter Spring Banquet 2021, Joint Statistical Meeting, 2021 (virtual).

55. Gordon Conference in Endocrine Disruption. Sunday River; Maine, 2020 (postponed to 2022).

56. U.S. Society on Developmental Origins of Health and Disease, University of North Carolina; NC, 2020 (postponed).

57. Society for Pediatric Pathology; Portland, OR, 2021 (postponed to 2022).

8. Non-Print Media (Software, electronic)

1. Application to Pitt Innovation Challenge (PINCH) 2-minute video on PeaPod Pregnancy Intervention Concept https://youtu.be/4GbFoWG_L2M, 2014 – 2015.

2. Phthalates and Pregnancy, video interview with Allison Hydzik, University of Pittsburgh News https://youtu.be/Q9J_40Off9M, 2015.

9. Other Publications

SERVICE

1. Service to School and University

| Years | Committee | Position |
|----------------|---|----------|
| 2013 - 2014 | Jonas Salk Centenary Symposium on Sustainability: Survival of the Wisest | Member |
| 2014 | Pitt Public Health Environmental Epidemiology | Member |
| 2014 - 2021 | Curriculum Committee, subcommittee on core curriculum. I formed a faculty group to study new epidemiologic methods that met for one year. | Member |
| 2015 - 2016 | Dean's Day, University of Pittsburgh Graduate School of Public Health | Judge |
| 2017 | Fulbright Committee, University of Pittsburgh | Reviewer |
| 2017 - Present | Center for Health Equity, Graduate School of Public Health | Member |

| Years | Committee | Position |
|----------------|---|-----------------|
| 2018 | Committee on Service, Department of Epidemiology Strategic Update | Member |
| 2019 | Medical Scientist Training Program (MSTP), University of Pittsburgh and Carnegie Mellon University | Faculty |
| 2020 | Preliminary Exam Committee for student in Infectious Disease and Microbiology (chaired by Robbie Malliard) | Member |
| 2020 | Preliminary Exam Committee for student in Behavioral and Community Health Sciences (chaired by Patricia Documet) | Member |
| 2020 - Present | Social Justice Action Committee (SJAC): I served in the Faculty culture subgroup, and now I serve in the Pipeline subgroup. | Member |
| 2021 | Committee on Precision Public Health, Department of Epidemiology | Co-Chair |

2. Service to Field of Scholarship

a. Editorial Boards, Editorships

| Date | Position | Organization |
|----------------|--------------------------------|--|
| 2017 - Present | Member, Editorial Review Board | Environmental Health Perspectives |
| 2020 - Present | Member | Specialty section Developmental and Reproductive Toxicology, Frontiers in Toxicology |

b. Manuscript and Other Document/Publication Review

| Dates | Journal Title |
|--------------|--|
| 2013 - 2020 | Environmental Health |
| <2014 | Epidemiology |
| <2014 | Journal of American Medical Association |
| <2014 | Journal of Exposure Science and Environmental Epidemiology |
| <2014 | Molecular and Cellular Endocrinology |
| <2014 | Trends in Endocrinology and Metabolism |
| 2014 | Placenta |
| 2014 - 2020 | Endocrinology |
| 2014 - 2020 | Environmental Health Perspectives |

| Dates | Journal Title |
|--------------|---|
| 2016 | American Journal of Epidemiology |
| 2016 | Cell Host Microbe |
| 2017 | Total Environment |
| 2017 - 2018 | Reproductive Sciences |
| 2017 - 2018 | Reproductive Toxicology |
| 2018 | Biological Research |
| 2018 | Journal for the Developmental Origins of Health and Disease |
| 2018 | Plos One |
| 2018 - 2019 | Human Reproduction |
| 2019 | Environment International |
| 2019 | Frontiers in Public Health |
| 2019 | International Journal of Hygiene and Environmental Health |
| 2019 - 2020 | Pediatric Research |
| 2020 | American Journal of Obstetrics and Gynecology |
| 2020 | Journal of Pediatric and Perinatal Epidemiology |
| 2020 | Toxicology Reports |
| 2021 | Scientific Reports |

c. Study Sections, Review Panels, and Advisory Boards

| Date | Position | Organization and Nature of Activity |
|-------------|-----------------|--|
| 2014 - 2015 | Reviewer | Harvard Center for Environmental Health |
| 2015 | Reviewer | Epidemiology Research Support Services, National Institute of Environmental Health Sciences |
| 2017 | Ad-hoc Reviewer | Integrated Clinical Endocrinology and Reproduction (ICER) Study Section, Center for Scientific Review (CSR), NIH |
| 2017 - 2020 | Reviewer | K99/R00 Pathways to Independence, National Institute of Environmental Health Sciences |
| 2018 | Reviewer | Endocrinology, Metabolism, Nutrition, and Reproductive Sciences (EMNR) Integrated Review Group (IRG), CSR, NIH |
| 2018 - 2019 | Reviewer | Time-sensitive Hurricane-Related R21, National Institute of Environmental Health Sciences |

| Date | Position | Organization and Nature of Activity |
|-------------|-----------------|---|
| 2019 | Reviewer | Center for Environmental Health and Susceptibility (CEHS), University of North Carolina |
| 2019 | Reviewer | Special Emphasis Panel/Scientific Review Group 2019/10 ZES1 JAB-D 1, Evaluation of the P42 Superfund Research Grant Applications, National Institute of Environmental Health Sciences |
| 2020 | Ad-hoc Reviewer | The Infectious, Reproductive, Asthma and Pulmonary Conditions (IRAP) Study Section, CSR, NIH |
| 2021 | Reviewer | Outstanding New Environmental Scientist (ONES) Program, National Institute of Environmental Health Sciences |

d. Leadership in Scholarly and Professional Organizations and Honorary Societies

| Date | Position | Organization |
|-------------|------------------|---|
| 2017 | Invited Co-Chair | Female Reproductive Endocrinology: From Pregnancy to Menopause, Endocrine Society Annual Meeting, ENDO 2017; Orlando, FL, 2017. |
| 2018 | Invited Chair | Maternal Fetal Interactions for Healthy Gestation, ENDO 2019; New Orleans, LA, 2019. |
| 2021 | Invited Co-Chair | Placenta Intra and Extracellular Vesicle Trafficking Impacts, ENDO 2021; San Diego, CA, 2021. |
| 2021 | Invited speaker | Drafted symposium proposal (under review) for The International Congress of Toxicology 2022 meeting. Symposium title is “Observing the unobservable: using human fetal tissues to improve generalisability and reproducibility of experimental models in developmental toxicity studies”. |

3, Service for Practice and Policy-Making, including Consultantships

a. Governmental Organizations

| Date | Position | Type of Service and/or Agency |
|-------------|-----------------|--|
| 2001 | Consultant | Office of International Activities, U.S. Environmental Protection Agency |

| Date | Position | Type of Service and/or Agency |
|-------------|--|---|
| 2003 | Consultant | Russian Association of Indigenous Peoples of the North |
| 2003 | Consultant | Massachusetts Department of Public Health |
| 2008 | Grant Reviewer | Health Canada's Chemicals Management Plan Research Fund |
| 2011 | Reviewer, Indicators for America's Children and the Environment | U.S. Environmental Protection Agency |
| 2018 | Reviewer, Coordinating and Advancing Human Biomonitoring in Europe to Provide Evidence for Chemical Policy Making (HBM4EU), a joint effort of 28 countries | The European Environment Agency and the European Commission, INSERM, Paris, France. |

b. Non-Governmental and Community-Based Organizations

| Date | Position | Type of Service and/or Organization |
|-------------|--------------------------------------|--|
| 2016 | Education / Training, Career Day | Environmental Charter School |
| 2017 | Education / Training, STEAM Showcase | Pittsburgh Montessori School |
| 2018 | Invited member | Science Advisory Board, Women for a Healthy Environment, Pittsburgh PA |
| 2018 | Invited member | Health and Science Node, Cancer Free Economy National Network |
| 2018 - 2019 | Volunteer | Community dinners, Homewood Children's Village |

4. Non-Professional Service

| Year(s) | Position and Organization | Type of Service |
|----------------|---|--------------------------------------|
| 2016 - 2017 | Mentor, Coming of Age Program for 8 th and 9 th Graders | First Unitarian Church of Pittsburgh |
| 2020 - 2021 | Minority Inspector, Ward 10, District 4, Pittsburgh (poll worker) | Allegheny County Elections Division |

| Year(s) | Position and Organization | Type of Service |
|----------------|--|--|
| 2020 - 2021 | Parent Representative, Pittsburgh Montessori | Pittsburgh Public School (PPS) Parent Advisory Council |
| 2021 | Parent Member | Environmental Charter School Action Alliance |
| 2021 | Volunteer and Contributor | Black Women for a Better Education PAC |