

John S. House
Biostatistics and Computational Biology Branch
National Institute of Environmental Health Sciences
National Institutes of Health

CURRICULUM VITAE

NOVEMBER, 2022

PERSONAL INFORMATION

Name: House, John S.

Education

School: University of Tennessee, Knoxville
Degree: B.S. Organismal and Systems Biology

School: North Carolina State University
Degree: Masters in Statistics

School: North Carolina State University
Degree: Ph.D., Molecular & Cellular Toxicology

Post-Graduate Training

Institution: National Institute of Environmental Health Sciences
Epidemiology Branch – Stephanie London
RTP, NC 27709
Position: Postdoctoral Trainee
Dates: 2011-2015

Ph.D. Thesis

Ph.D. Thesis
Committee
Title: Simultaneous Removal of C/EBP α and C/EBP β Reveals
Their Critical Roles in Sebocyte and Keratinocyte Differentiation
Robert Smart, Ph.D.
Yoshiaki Tsuji, Ph.D.
James Bonner, Ph.D.
Marcelo Rodriguez-Puebla, Ph.D.

Contact Information

Institution: National Institute of Environmental Health Sciences
Institute: National Institutes of Health
Department: Biostatistics and Computational Biology Branch
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ACADEMIC PROFESSIONAL APPOINTMENTS

Position/Rank: Adjunct Associate Professor in Toxicology
Institution: North Carolina State University
Department: College of Sciences
Dates: 2022-Present

Position/Rank: Staff Scientist
Institution: National Institutes of Health
Department: Biostatistics and Computational Biology Branch
Dates: 2019-Present

Position/Rank: Staff Scientist
Institution: North Carolina State University
Department: Bioinformatics Research Center
Dates: 2018-2019

Position/Rank: Research Scholar
Institution: North Carolina State University
Institute: Bioinformatics Research Center
Dates: 2016-2018

INDUSTRY PROFESSIONAL APPOINTMENTS

Position/Rank: Director of Forecasting
Company: William Carter Company, GA
Dates: 2002-2006

Position/Rank: Senior Consultant / Solution Architect
Company: Hitachi Data Systems (formerly Experio Solutions)
Dates: 2000-2002

Position/Rank: Senior Statistician
Company: Michelin Tire Company, SC
Dates: 1998-2000

PROFESSIONAL SERVICE & LEADERSHIP

2022 – Present – Division of Intramural Research Staff Scientist Representative on the Continuity of Operations Team, NIEHS

2021 – Present – Review Editor – *Frontiers in Genetics*, *Frontiers in Toxicology*, *Frontiers in Environmental Sciences*

2021 NIEHS SS/SC Communications Committee to respond to the SD's request for improvement

2020 NIEHS NTP Staff Scientist Search Committee

2019-Present – Reviewer *Toxicological Sciences*

2020-2021 Mentor for Harlyn Skinner

2019 NIEHS Epidemiology Branch Poster Judge

2018 NC Society of Toxicology Poster Judge

2016-18 Grant Reviewer for Center for Human Health and the Environment

2016/17 Symposium Planning Committee Chair, Center for Human Health and the Environment, NCSU

2014/15 Lung Respiratory Biology Group Steering Committee, NIEHS

2014/15 NIEHS Career Fair Steering Committee

2012/13 DNA day instruction in rural public high schools

2010 Society of Toxicology Platform Session Chair, Salt Lake City. *Gene Environmental Interactions in Carcinogenesis*

Ongoing Journal Reviewer – *Journal of Biological Chemistry*, *American Journal of Respiratory Cell and Molecular Biology*, *Alternatives to Animal Experimentation*

INVITED TALKS

Mapping Genetic Determinants of Blood Glucose Control in the Action to Control Cardiovascular Risk in Diabetes Study Group (ACCORD). American Diabetes Association's 82nd Scientific Sessions, June 3-7, 2022, New Orleans, Louisiana

Your Children are what You Eat? Associations of Maternal Diet with Offspring Behavior. NIEHS, RTP, NC 2019

Maternal Dietary Influences on Offspring Epigenetics and Behavior. Eastern Carolina University, Greenville, NC. 2018

High-Throughput Dose Response Modeling with Targeted Sequencing. Biospyder. Carlsbad, CA. 2017

TempO-Seq for Dose-Response Expression Experiments. Triangle Statistical Genetics Conference. 2016

Use of ENCODE tools and genome browsers to generate hypothesis. Toxicology Department. North Carolina State University, Raleigh, NC. 2015

Genetic and Exposure Influences on Pulmonary Function and Atopy in Humans. Hudson Alpha Institute for Biotechnology, Huntsville, AL. 2015

C/EBP α and C/EBP β are Determinates of Skin Carcinogenesis and are Essential Regulators of Keratinocyte and Sebocyte Differentiation. Society of Toxicology Platform Session Speaker. 2010

MENTORING

Annie DiFrank – 2022 Summer Intern. Exposures and genetic correlations in the Personalized Environmental Genes Study cohort

Cynthia Fisher – 2021 Summer Intern. Exposome-wide associations with allergic rhinitis in the PEGs cohort

Violet Evans 2021-2022 NIEHS Scholars Connect Program (NSCP). Genetic mapping of hemoglobin glycation index (HGI) response in the ACCORD clinical trial

Adrian Green – 2021-Current. North Carolina State University post-doctoral researcher, on Bioinformatics and machine learning for his K99/R00 application

Harlyn Skinner – 2020-2022. Post-doctoral research at North Carolina State University, on machine learning and analysis methods in R as she applies for pathway to independence award. Am also a mentor for the Diversity Supplement (R01MD011746-S2; awarded)

Dillon Lloyd (2018-2020), Post-bac research at North Carolina State University. Training in R, Rshiny, GRE test taking, presentations and mentoring.

Dylan White (2018) PhD committee member - Storm Track Dynamics of African Easterly Waves

Supervised and guided undergraduate intern from North Carolina State University who is currently an MD-Ph.D. student at the University of Miami Miller School of Medicine

TEACHING AND OUTREACH

2019 – Present – Invited Lecturer – Bioinformatics in Toxicology, North Carolina State University, Raleigh, NC

2018 – Present – Invited Lecturer – Computational Environmental Sciences and Toxicology, North Carolina State University, Raleigh, NC

2012 – Present – Invited Lecturer - Mechanisms of Hepatic Toxicology, North Carolina State University, Raleigh, NC

2011 – Present – Invited Lecturer - General Hepatic Toxicology, North Carolina State University, Raleigh, NC

2020 – Development of NIEHS high school lectures emphasizing critical thinking and the Covid19 and the Pandemic Vulnerability Index. Received NIEHS award for this work.

2020 – Basics in R lectures at NIEHS Summer Bioinformatics course

2018 Co-Instructor – Food Toxicology, North Carolina State University, Raleigh, NC

2016 Invited Lecturer – Current Events in Toxicology, North Carolina State University, Raleigh, NC

2016 Invited Lecturer – Food Toxicology, North Carolina State University

2012 Guest Lecturer – Honors Biology (GWAS), North Carolina State University, Raleigh, NC 2012, 2015 North Carolina DNA Day – NC high schools

2002 – 2006 – Course developer and instructor on Excel®, PowerPoint® and Word® – William Carter Company, Atlanta, GA

1994 – 1996 – Teaching Assistant, Department of Statistics, North Carolina State University, Raleigh, NC

2012 – 2015 – Tutor for high school students in chemistry, biology, and mathematics

CONFERENCES – POSTERS & TALKS

2022 Mapping Genetic Determinants of Blood Glucose Control in the Action to Control Cardiovascular Risk in Diabetes Study Group (ACCORD), American Diabetes Association Scientific Sessions, New Orleans, LA

2022 Questionnaire-Based Exposome-Wide Association Study (Ex-WAS) on Allergic Rhinitis in the Personalized Environment Genes Study (PEGS), Society of Toxicology, San Diego, CA

2021 Clomifene and Assisted Reproductive Technology in Humans are Associated with Offspring Epigenetic Alterations in Imprinted Control Regions, Society of Toxicology, Virtual – Senior Author

2021 Down-sampling Expression Dose-Response Modeling: Discovery versus \$\$\$, Society of Toxicology, Virtual

2018 Cardiovascular Toxicity Screening of Polychlorinated Biphenyls and Their Major Metabolites, Society of Toxicology, San Antonio, TX

2016 Maternal Nutrition and Early Childhood Behavioral Outcomes in NEST, NIEHS Environmental Health FEST, NC

2016 *Maternal Nutrition and Early Childhood Behavioral Outcomes in NEST, Toxicogenetics: The Interface of Epigenetics and Risk Assessment*, VA

2015 *Raw Milk Consumption and Pulmonary Function in Adults in the Agricultural Lung Health Study*, American Thoracic Society, Denver, CO

2014 *Genetic Variation in HTR4 and lung function: GWAS follow-up in mouse*, FASEB – Lung Development, Saxton’s River, VT

2014 *HTR4 and lung function: GWAS follow-up in mouse*, Visiting Pulmonary Scholars, RTP, NC

2013 *Htr4 Deficient Mice Exhibit Increased Airway Resistance and Altered Control of Breathing*. Gordon Research Conference, Andover, NH

2013 *GWAS Follow-up in Htr4^{-/-} Mice Finds Altered Lung Function and Control of Breathing*. Epidemiology Branch Review

2011 *C/EBP ζ and C/EBP β are Required for Sebocyte Differentiation and Stratified Squamous Differentiation in Adult Mouse Skin*. 9th International Skin Carcinogenesis Conference, University Park, PA

2011 *C/EBP ζ and C/EBP β are Required for Sebocyte Differentiation and Stratified Squamous Differentiation in Adult Mouse Skin*. Graduate Research Symposium

2010 *C/EBP α and C/EBP β are Determinates of Skin Carcinogenesis and are Essential Regulators of Keratinocyte and Sebocyte Differentiation*. Society of Toxicology, Salt Lake City, UT

FUNDING

2019 – Principal Investigator. Seed money: \$20k to conduct WGBS whole genome bisulfite sequencing on 20 cordblood samples to investigate difference in ADHD and normative children in epigenetics

2018 – Co-Investigator developing distance education course in food toxicology. *Is it something I ate?* (\$5,000, NCSU).

2017 – Co-Investigator. *The role of C/EBP β in regulating p53 pro-apoptotic transcriptional activity in response to UVB solar radiation* (\$25,000, CHHE)

PUBLICATIONS – [PEER REVIEWED RESEARCH ARTICLES](#) [1-46]

References

1. Wolkin A, Collier S, House JS, Reif D, Motsinger-Reif A, Duca L and Sharpe JD (2022) Comparison of National Vulnerability Indices Used by the Centers for Disease Control and Prevention for the COVID-19 Response. Public Health Rep 137:803-812. doi: 10.1177/00333549221090262
2. McGee C, Shi M, House J, Drude A, Gonzalez G, Martin N, Chen SH, Rogers H, Njunge A, Hodge X, Mosley B, George M, Agrawal R, Wild C, Smith C, Brown A, Barber L and Garantziotis S (2022)

- Longitudinal Serological Surveillance for COVID-19 Antibodies after Infection and Vaccination. *Microbiol Spectr*:e0202622. doi: 10.1128/spectrum.02026-22
3. Lloyd DT, Skinner HG, Maguire R, Murphy SK, Motsinger-Reif AA, Hoyo C and House JS (2022) Clomifene and Assisted Reproductive Technology in Humans Are Associated with Sex-Specific Offspring Epigenetic Alterations in Imprinted Control Regions. *Int J Mol Sci* 23. doi: 10.3390/ijms231810450
 4. Lee EY, Akhtari F, House JS, Simpson RJ, Jr., Schmitt CP, Fargo DC, Schurman SH, Hall JE and Motsinger-Reif AA (2022) Questionnaire-based exposome-wide association studies (ExWAS) reveal expected and novel risk factors associated with cardiovascular outcomes in the Personalized Environment and Genes Study. *Environ Res* 212:113463. doi: 10.1016/j.envres.2022.113463
 5. Jima DD, Skaar DA, Planchart A, Motsinger-Reif A, Cevik SE, Park SS, Cowley M, Wright F, House J, Liu A, Jirtle RL and Hoyo C (2022) Genomic map of candidate human imprint control regions: the imprintome. *Epigenetics*:1-24. doi: 10.1080/15592294.2022.2091815
 6. Jackson TW, Henriquez AR, Snow SJ, Schladweiler MC, Fisher AA, Alewel DI, House JS and Kodavanti UP (2022) Adrenal stress hormone regulation of hepatic homeostatic function after an acute ozone exposure in Wistar-Kyoto male rats. *Toxicol Sci*. doi: 10.1093/toxsci/kfac065
 7. House JS, Grimm FA, Klaren WD, Dalzell A, Kuchi S, Zhang SD, Lenz K, Boogaard PJ, Ketelslegers HB, Gant TW, Rusyn I and Wright FA (2022) Grouping of UVCB substances with dose-response transcriptomics data from human cell-based assays. *ALTEX*. doi: 10.14573/altex.2107051
 8. Gonzalez-Nahm S, Marchesoni J, Maity A, Maguire R, House J, Tucker R, Atkinson T, Murphy S and Hoyo C (2022) Maternal Periconceptional Stressors, Mediterranean Diet Adherence, and Child Outcomes. *Current Developments in Nutrition* 6:650-650. doi: 10.1093/cdn/nzac061.034
 9. Snow SJ, Henriquez AR, Fisher A, Vallanat B, House JS, Schladweiler MC, Wood CE and Kodavanti UP (2021) Peripheral metabolic effects of ozone exposure in healthy and diabetic rats on normal or high-cholesterol diet. *Toxicol Appl Pharmacol* 415:115427. doi: 10.1016/j.taap.2021.115427
 10. McDonough CW, Warren HR, Jack JR, Motsinger-Reif AA, Armstrong ND, Bis JC, House JS, Singh S, El Rouby NM, Gong Y, Mychaleckyj JC, Rotroff DM, Benavente OR, Caulfield MJ, Doria A, Pepine CJ, Psaty BM, Glorioso V, Glorioso N, Hiltunen TP, Kontula KK, Arnett DK, Buse JB, Irvin MR, Johnson JA, Munroe PB, Wagner MJ and Cooper-DeHoff RM (2021) Adverse Cardiovascular Outcomes and Antihypertensive Treatment: A Genome-Wide Interaction Meta-Analysis in the International Consortium for Antihypertensive Pharmacogenomics Studies. *Clin Pharmacol Ther* 110:723-732. doi: 10.1002/cpt.2355
 11. Marvel SW, House JS, Wheeler M, Song K, Zhou Y-H, Wright FA, Chiu WA, Rusyn I, Motsinger-Reif A and Reif DM (2021) The COVID-19 Pandemic Vulnerability Index (PVI) Dashboard: Monitoring county-level vulnerability using visualization, statistical modeling, and machine learning. *Environmental Health Perspectives* 129:017701.
 12. Maguire RL, House JS, Lloyd DT, Skinner HG, Allen TK, Raffi AM, Skaar DA, Park SS, McCullough LE, Kollins SH, Bilbo SD, Collier DN, Murphy SK, Fuemmeler BF, Gowdy KM and Hoyo C (2021) Associations between maternal obesity, gestational cytokine levels and child obesity in the NEST cohort. *Pediatr Obes* 16:e12763. doi: 10.1111/ijpo.12763
 13. House JS, Grimm FA, Klaren WD, Dalzell A, Kuchi S, Zhang SD, Lenz K, Boogaard PJ, Ketelslegers HB, Gant TW, Wright FA and Rusyn I (2021) Grouping of UVCB substances with new approach methodologies (NAMs) data. *ALTEX* 38:123-137. doi: 10.14573/altex.2006262
 14. Colonna CH, Henriquez AR, House JS, Motsinger-Reif AA, Alewel DI, Fisher A, Ren H, Snow SJ, Schladweiler MC, Miller DB, Miller CN, Kodavanti PRS and Kodavanti UP (2021) The Role of Hepatic Vagal Tone in Ozone-Induced Metabolic Dysfunction in the Liver. *Toxicol Sci* 181:229-245. doi: 10.1093/toxsci/kfab025
 15. Alick CL, Maguire RL, Murphy SK, Fuemmeler BF, Hoyo C and House JS (2021) Periconceptional Maternal Diet Characterized by High Glycemic Loading Is Associated with Offspring Behavior in NEST. *Nutrients* 13. doi: 10.3390/nu13093180

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17. Sakolish C, House JS, Chramiec A, Liu Y, Chen Z, Halligan SP, Vunjak-Novakovic G and Rusyn I (2020) Tissue-Engineered Bone Tumor as a Reproducible Human in Vitro Model for Studies of Anticancer Drugs. *Toxicological Sciences* 173:65-76.
18. Nichols CE, House JS, Li H, Ward JM, Wyss A, Williams JG, Deterding LJ, Bradbury JA, Miller L and Zeldin DC (2020) Lrp1 Regulation of Pulmonary Function: Follow-up of Human GWAS in Mouse. *American Journal of Respiratory Cell and Molecular Biology*.
19. Maguire RL, House JS, Lloyd DT, Skinner HG, Allen TK, Raffi AM, Skaar DA, Park SS, McCullough LE and Kollins SH (2020) Associations between maternal obesity, gestational cytokine levels and child obesity in the NEST cohort. *Pediatric obesity*:e12763.
20. House JS and Motsinger-Reif AA (2020) Fibrate pharmacogenomics: expanding past the genome. *Pharmacogenomics* 21:293-306. doi: 10.2217/pgs-2019-0140
21. House JS, Bouzos E, Fahy KM, Francisco VM, Lloyd DT, Wright FA, Motsinger-Reif AA, Asuri P and Wheeler KE (2020) Low-Dose Silver Nanoparticle Surface Chemistry and Temporal Effects on Gene Expression in Human Liver Cells. *Small* 16:e2000299. doi: 10.1002/sml.202000299
22. Gonzalez-Nahm S, Nihlani K, S House J, L Maguire R, G Skinner H and Hoyo C (2020) Associations between Maternal Cadmium Exposure with Risk of Preterm Birth and Low after Birth Weight Effect of Mediterranean Diet Adherence on Affected Prenatal Outcomes. *Toxics* 8:90.
23. Tam HW, Hall JR, Messenger ZJ, Jima DD, House JS, Linder K and Smart RC (2019) C/EBP β suppresses keratinocyte autonomous type 1 IFN response and p53 to increase cell survival and susceptibility to UVB-induced skin cancer. *Carcinogenesis* 40:1099-1109.
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26. House JS, Hall J, Park SS, Planchart A, Money E, Maguire RL, Huang Z, Mattingly CJ, Skaar D and Tzeng JY (2019) Cadmium exposure and MEG3 methylation differences between whites and African Americans in the NEST Cohort. *Environmental epigenetics* 5:dvz014.
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28. Grimm FA, House JS, Wilson MR, Sirenko O, Iwata Y, Wright FA, Ball N and Rusyn I (2019) Multi-dimensional in vitro bioactivity profiling for grouping of glycol ethers. *Regul Toxicol Pharmacol* 101:91-102. doi: 10.1016/j.yrtph.2018.11.011
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34. House JS, Mendez M, Maguire RL, Gonzalez-Nahm S, Huang Z, Daniels J, Murphy SK, Fuemmeler BF, Wright FA and Hoyo C (2018) Periconceptual maternal mediterranean diet is associated with favorable offspring behaviors and altered CpG methylation of imprinted genes. *Frontiers in cell and developmental biology* 6:107.
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37. House JS, Grimm FA, Jima DD, Zhou YH, Rusyn I and Wright FA (2017) A Pipeline for High-Throughput Concentration Response Modeling of Gene Expression for Toxicogenomics. *Front Genet* 8:168. doi: 10.3389/fgene.2017.00168
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45. House JS, Zhu S, Ranjan R, Linder K and Smart RC (2010) C/EBP α and C/EBP β are required for sebocyte differentiation and stratified squamous differentiation in adult mouse skin. *PLoS One* 5:e9837.
46. Ewing SJ, Zhu S, Zhu F, House J and Smart R (2008) C/EBP β represses p53 to promote cell survival downstream of DNA damage independent of oncogenic Ras and p19 Arf. *Cell Death & Differentiation* 15:1734-1744.