

# ***Idan Shalev, PhD***

July 2025



---

Phone (office): (001) 814-865-5764  
Fax: (001) 814-863-7525  
Email: ius14@psu.edu

Address:  
219 Biobehavioral Health Building  
The Pennsylvania State University  
University Park, PA 16802, USA  
Office: 223 Biobehavioral Health Bldg

---

## **Academic Positions:**

- 2020-present:** The Pennsylvania State University  
Associate Professor (with tenure) – Department of Biobehavioral Health,  
The Pennsylvania State University, University Park, PA, USA.
- 2017- 2020:** The Pennsylvania State University  
Mark T. Greenberg Early Career Professor for the Study of Children's Health  
and Development
- 2014-2020:** The Pennsylvania State University  
Assistant Professor – Department of Biobehavioral Health, The Pennsylvania  
State University, University Park, PA, USA.

## **Education**

- 2011-2013:** Duke University  
Postdoctoral Associate – Department of Psychology and Neuroscience,  
Duke University, Durham, NC, USA.  
Advisors: Profs. Terrie Moffitt and Avshalom Caspi
- 2011:** National University of Singapore  
Research Associate – Department of Psychology, National University of  
Singapore, Singapore.
- 2007-2010:** Hebrew University  
PhD degree – Department of Neurobiology, Hadassah Medical School,  
Hebrew University, Jerusalem, Israel.  
Advisor: Prof. Richard Ebstein
- 2005-2007:** Hebrew University  
MSc degree (magna cum laude) – Department of Brain and Behavior, Hebrew  
University Jerusalem, Israel.  
Advisor: Prof. Richard Ebstein
- 2000 -2004:** Ben-Gurion University  
BSc degree – Department of Biology, Natural Sciences, Ben-Gurion University  
of the Negev, Beer-Sheva, Israel.

### **Membership in Professional Societies**

- 2006- 2011:** Israel Society for Biological Psychiatry  
**2006- 2011:** Israel Society for Neuroscience  
**2010- 2015:** Associate Member- European College of Neuropsychopharmacology (ECNP)  
**2015- 2020:** Association for Psychological Science (APS).  
**2018- present:** International Society of Psychoneuroendocrinology  
**2018- present:** Gerontological Society of America

### **Editorial Duties**

- 2013:** Guest Editor: *Frontiers in Neuroscience*- special issue on Social Hormones and Human Behavior  
**2018- present:** Editorial Board: *Translational Neuroscience*  
**2021- present:** Editorial Board: *Genes*  
**2022- present:** Editorial Board: *Scientific Reports*  
**2025- present:** Editorial Board: *Development and Psychopathology*  
**2025- present:** Editorial Board: *the Journal of Precision Medicine: Health and Disease*

### **Ad Hoc Reviewer**

#### **Journals**

*Ageing Research Reviews, American Journal of Preventive Medicine, Annals of Behavioral Medicine, Annals of Epidemiology, Biodemography and Social Biology, BioEssays, Biological Psychiatry, Biological Psychology, BMC Medical Genetics, BMC Medicine, Brain Behavior and Immunity, Child Abuse & Neglect, Child Development, Child Maltreatment, Clinical Epigenetics, Clinical Psychological Science, Depression and Anxiety, Development and Psychopathology, Developmental Psychology, eBioMedicine, European Journal of Personality, Frontiers in Genetics, JAMA Pediatrics, JAMA Psychiatry, Journal of Affective Disorders, Journal of Child Psychology and Psychiatry, Journal of Developmental Origins of Health and Disease, Journal of Nervous and Mental Disease, Journal of Psychiatric Research, Journal of Research on Adolescence, Journal of Visualized Experiments, Mechanisms of Ageing and Development, Molecular Psychiatry, Neurobiology of Aging, Neuroscience & Biobehavioral Reviews, Pediatrics, Philosophical Transactions B, PLoS Medicine, PLoS One, PNAS, Proceedings of the Royal Society B, Psychiatry Research, Psychological Medicine, Psychoneuroendocrinology, Psychosomatic Medicine, Royal Society Open Science, Rejuvenation Research, Scientific Reports, Sleep Health, SSM - Population Health, The American Journal of the Medical Sciences, The American Journal of Psychiatry, The Journal of Clinical Endocrinology & Metabolism, The Journal of Gerontology: Psychological Sciences, The Journal of Pediatrics, The Protein Journal, Translational Psychiatry.*

#### **Grants**

- 2013:** Social Science Research Institute (SSRI) at Penn State University.  
**2014:** Israel Science Foundation (ISF).  
**2019-2021:** Research Grants Council (RGC) of Hong Kong (2).  
**2022:** National Institutes of Health (NIH) Special Emphasis Panel (ZRG1 BBBP-R).  
**2023:** National Institutes of Health (NIH) Special Emphasis Panel (ZAG1 ZIJ-2).  
**2025:** National Institutes of Health (NIH) Aging Systems and Geriatrics (ASG) study section.

#### **Professional Meeting**

- 2014:** Review Board Member- International Society for Traumatic Stress Studies (ISTSS): Healing Lives and Communities: Addressing the Effects of Childhood Trauma across the Life Span.

**IRB**

**2017- 2022:** Scientific review panel for the Clinical Research Center (CRC) at Penn State University.

**Awards/Honors**

- 2021:** Full member- Sigma Xi, The Scientific Research Honor Society.
- 2019:** Teaching Excellence Award- Department of Biobehavioral Health, College of Health and Human Development, Penn State University.
- 2017:** Mark T. Greenberg Early Career Professor for the Study of Children's Health and Development.
- 2016:** National Institute on Aging Butler-Williams Scholar.
- 2016:** National Institute on Aging Summer Training Course in Experimental Aging Research.
- 2015:** *Rising Star* in the Association for Psychological Science (APS).
- 2014:** Best poster award- 44<sup>th</sup> Annual ISPNE Conference, Montreal, Canada.
- 2013:** Selected for the Jacobs Foundation Conference 2013 on The Genetic Moderation (and Mediation) of Intervention Efficacy.
- 2012:** Travel award - 102nd Annual Meeting of the American Psychopathological Association (APPA), New-York, USA.
- 2011:** Travel award - The Biology of Prosocial Behavior – Emory University, Atlanta, USA.
- 2011:** Finalist, Fulbright Post-Doctoral Fellowships.
- 2011:** Israel Society for Biological Psychiatry- Annual Award for Outstanding Research.
- 2010:** Travel award- Integrating Cooperation Research across Europe (INCORE) foundation- Budapest, Hungary.
- 2010:** Travel award- Hebrew University- 7th World Congress on Stress, Leiden, Netherlands.
- 2010:** Travel award- European College of Neuropsychopharmacolog (ECNP) Workshop for Young Scientists in Europe, Nice, France.
- 2010:** Travel award- The 3rd German Society for Psychophysiology and its Application Spring School, Dresden, Germany.
- 2009:** Travel award- The 2nd German Society for Psychophysiology and its Application Spring School, Dresden, Germany.
- 2007:** MSc degree- magna cum laude.

**Grants****Active**

		<u>Period</u>	<u>Award Total</u>
R01 NR021020	Oxford, Shalev and Dow-Smith (MPI)	2024-2029	\$2,803,877
National Institute of Nursing Research, NIH			
<i>The impact of stress and caregiver sensitivity on infant cellular aging in a population of under-resourced families: A randomized controlled trial</i>			
Role: Multiple Principal-Investigator			
2 P50 HD089922	Connell and Jackson (PD)	2023-2028	\$8,885,070
National Institute of Child Health and Human Development, NIH			
<i>Penn State University's Translational Center for Child Maltreatment Studies (TCCMS)</i>			
Role: Co-Investigator			

R03 AG081719	Harrington (PI)	2023-2025	\$158,189
National Institute on Aging, NIH			
<i>The role of loneliness in cognitive decline and risk for dementia</i>			
Role: Co-Investigator			
P01 AG003949	Engeland and Graham-Engeland (MPI)	2022-2027	\$2,536,683
National Institute on Aging, NIH			
<i>Depression, Inflammation, Biological Age, and Cognitive Function</i>			
Role: Co-Investigator			
R01 NR019610	Garrett-Peters and Shalev (MPI)	2021-2025	\$3,419,993
National Institute of Nursing Research, NIH			
<i>Early Life Adversity and the Developmental Programming of Early Childhood Telomere Biology: A Longitudinal Study of Developmental Context and Behavioral Mediators</i>			
Role: Multiple Principal-Investigator			
T32 AG049676	Martire (PI)	2021-2025	\$2,163,445
National Institute on Aging, NIH			
<i>Psychosocial Determinants and Biological Pathways to Healthy Aging (PATHWAYS)</i>			
Role: Co-Investigator			
U01 AG073204	Martin and Redman (MPI)	2021-2025	\$1,072,236
National Institute on Aging, NIH			
<i>A Planning Project to Pilot Test and Optimize Dietary Approaches to Slow Aging and Design a Long-Term Trial</i>			
Role: Co-Investigator			
T32 HD101390	Jackson and Noll (MPI)	2020-2025	\$1,728,321
National Institute of Child Health and Human Development, NIH			
<i>Creating the Next Generation of Scholars in Child Maltreatment Science</i>			
Role: Co-Investigator			
<b>Pending</b>			
			<u>Award Total</u>
T32 HD101390	Schreier (PI)		\$2,026,530
National Institute of Child Health and Human Development, NIH			
<i>Creating the Next Generation of Scholars in Child Maltreatment Science</i>			
Role: Co-Investigator			
T32 AG049676	Martire (PI)		\$2,651,114
National Institute on Aging, NIH			
<i>Psychosocial Determinants and Biological Pathways to Healthy Aging (PATHWAYS)</i>			
Role: Co-Investigator			
R01 DK139357A	Shalev (PI)		\$3,895,763
National Institute of Diabetes and Digestive and Kidney Diseases, NIH			
<i>Investigating Multiple Biological Mechanisms of Obesity in a High-Risk Pediatric Cohort with Confirmed Maltreatment</i>			
Role: Principal-Investigator			

\*Scored at the 6<sup>th</sup> percentile

R01 Veturi (PI) \$3,188,848  
National Institute on Aging, NIH  
*Big Data-Driven Multi-Omic Approaches to understand the Genetics Linking Chronic Stress and Inflammation to Cognitive Decline*  
Role: Co-Investigator

R01 Shenk (PI) \$1,203,655  
National Institute of Child Health and Human Development, NIH  
*Improving the Accuracy of Child Maltreatment Effects at the Transition to Adulthood*  
Role: Co-Investigator

R03 MH139525 Shalev (PI) \$187,725  
National Institute of Mental Health, NIH  
*Paternal age at conception, telomere length and autism spectrum disorders: A family-based longitudinal study*  
Role: Principal-Investigator  
\*Scored at the 6<sup>th</sup> percentile

R01 Bliel (PI) Direct PSU: \$87,852  
National Heart, Lung, and Blood Institute, NIH  
*Women's health and aging: Developmental pathways underlying life course risk*  
Role: Co-Investigator

R01 Zvara, Shalev and Howard (MPI) Direct PSU: \$378,661  
National Institute of Child Health and Human Development, NIH  
*Childhood Maltreatment, Accelerated Biological Aging and Cognitive Function at Midlife: A Biopsychosocial Study Across the Lifespan*  
Role: Multiple Principal-Investigator

R21 Samavat (PI) Direct PSU: \$85,754  
National Institute on Aging, NIH  
*Effects of green tea extract supplementations on telomere length in postmenopausal women*  
Role: Co-Investigator

### Completed

	<u>Period</u>	<u>Award Total</u>
Seed Grant Veturi (PI) Pennsylvania State University, Biobehavioral Health <i>Understanding the role of inflammation on the stress-cognitive function relationship using a data-driven approach</i> Role: Co-Investigator	2024	\$10,000

Faculty Fellow Veturi (PI) Pennsylvania State University, Social Science Research Institute <i>Understanding the genetic basis of sex differences in stress-cognitive decline relationship: a multiomic data driven approach integrating neuroimaging with electronic health record</i> Role: Mentor	2023-2024	\$15,000
---	-----------	----------

R03 AG071549	Shalev (PI)	2022-2024	\$158,190
National Institute on Aging, NIH			
<i>Telomere Length Analysis in the Comprehensive Assessment of Long-term Effects of Reducing Intake of Energy (CALERIE™) Study</i>			
Role: Principal-Investigator			
U01 ES030949	Shalev (PI)	2019-2023	\$948,300
National Institute on Aging and National Institute of Environmental Health Sciences, NIH			
<i>The Comparability and Reproducibility of Telomere Length Measurements for Population-based Studies</i>			
Role: Principal-Investigator			
1 P50 HD089922	Noll (PD)	2017-2023	\$8,037,839
National Institute of Child Health and Human Development, NIH			
<i>NIH CAPSTONE Center for Multidisciplinary Research and Training in Child Abuse and Neglect</i>			
Role: Co-Investigator			
Seed Grant	Gould (PI)	2021	\$13,131
Pennsylvania State University, Biobehavioral Health			
<i>Adolescent Social Stress and Telomere Length: Developing a Mouse Model</i>			
Role: Co-Investigator			
R21 AG055621	Shalev (PI)	2018-2021	\$435,324
National Institute on Aging, NIH			
<i>Temporal Genomics Mechanisms Underlying Disease and Aging</i>			
Role: Principal-Investigator			
R03 HD099372	Bernard and Dagan (MPI)	2019-2021	\$159,500
National Institute of Child Health and Human Development, NIH			
<i>Examining Mechanistic Links Between Maternal Attachment Representations and Young Children's Telomere Length</i>			
Role: Consultant			
T32 AG049676	Almeida (PI)	2016-2021	\$1,334,159
National Institute on Aging, NIH			
<i>Psychosocial Determinants and Biological Pathways to Healthy Aging (PATHWAYS)</i>			
Role: Co-Investigator			
Seed Grant	Shalev (PI)	2020	\$13,587
Pennsylvania State University, Biobehavioral Health			
<i>The Impact of Child Maltreatment on Biological Aging: A Multi-Omics Approach</i>			
Role: Principal-Investigator			
Seed Grant	Shalev (PI)	2019	\$14,784
Pennsylvania State University, Biobehavioral Health			
<i>Integrating Dynamic Cellular Mechanisms with Momentary Assessments of Emotions</i>			
Role: Principal-Investigator			

Seed Grant	Shalev (PI)	2018	\$4,500
Pennsylvania State University, Biobehavioral Health <i>Transcriptomic and Metabolomics Analysis among Victims of Child Maltreatment</i> Role: Principal-Investigator			
R21 AG054846	Belsky (PI)	2018-2020	\$238,500
National Institute on Aging, NIH <i>A Pilot Study to Advance Translation of Molecular Signatures of Biological Aging</i> Role: Consultant			
Seed Grant	Shalev (PI)	2016-2018	\$62,773
Pennsylvania State University, Clinical and Translational Science Institute <i>Early-Life Adversity and Gene Expression Response to Acute Psychological Stress</i> Role: Principal-Investigator			
Faculty Fellow	Shalev (PI)	2016	\$15,000
Pennsylvania State University, Social Science Research Institute <i>Integrating Dynamic Biological Mechanisms with Daily Momentary Assessments to investigate Biological Embedding of Early-Life Adversity</i> Role: Principal-Investigator			
Other	Shalev (PI)	2016	\$15,000
Pennsylvania State University, College of Health and Human Development <i>Teaching Release to Support Grant Writing</i> Role: Principal-Investigator			
Sara van Dam Foundation	Beijers (PI)	2015-2017	\$178,030
Pennsylvania State University, Clinical and Translational Science Institute <i>Biological Embedding of Early-Life Experiences: How Early-Life Experiences Impact Childhood Development and Can Accelerate Aging</i> Role: Co-Investigator			
Seed Grant	Chang (PI)	2015-2016	\$77,905
Pennsylvania State University, Clinical and Translational Science Institute <i>Complex Interactions of Behavior, Genes, and Environment in the Multi-System Characterization of the Effects of Sleep Loss on Health, Cardio-Metabolic Disease Risk, Cognition, and the Epigenome</i> Role: Co-Investigator			
Seed Grant	Shalev (PI)	2014-2015	\$26,278
Pennsylvania State University, Social Science Research Institute <i>Intergenerational Transmission of Trauma? Testing Cellular Aging in Mothers Exposed to Sexual Abuse and Their Children</i> Role: Principal-Investigator			

**Manuscripts under Review (#denotes postdoctoral, graduate or undergraduate mentee)**

Etzel L, Garrett-Peters P, Ye Q<sup>#</sup>, Apsley AT<sup>#</sup>, Ahamed A<sup>#</sup>, Kozlosky J, Chairou C, Schmid L, Lee VK, Propper C, Mills-Koonce R, Short SJ, **Shalev I**. Maternal Biological Aging in Mid to Late Pregnancy and across Four Years Postpartum: Evidence for Postpartum Recovery and Disruption

by Subsequent Pregnancy. *American Journal of Obstetrics & Gynecology*.  
<https://medrxiv.org/cgi/content/short/2025.06.30.25330561v1>

Apsley AT<sup>#</sup>, Ye Q<sup>#</sup>, Etzel L, **Shalev I**. Measuring Biological Aging with Epigenetic Clocks: Methods and Pitfalls. *Epigenomics*

Girod S, Ganguli A, Jackson Y, Heim CM, **Shalev I**, Claus E, Fisher Z, Noll JG, Shenk CE, Schreier HMC. The Role of Social Support on Change in C-reactive Protein and BMI Among Youth With and Without Child Maltreatment History. *Brain Behavior and Immunity*

Ye Q<sup>#</sup>, Ahamed A<sup>#</sup>, **Shalev I**, Etzel L. Evaluation of reproductive profiles, epigenetic aging, and mortality in post-menopausal women. *The Journals of Gerontology: Series A*.  
<https://www.medrxiv.org/content/10.1101/2025.02.08.25321904v1>

Ye Q<sup>#</sup>, Apsley AT<sup>#</sup>, Etzel L, Hastings WJ, Chiaro C, Schreier HMC, Claus ED, Cohen AA, Fisher ZF, Heim CM, Noll JG, Shenk CE, **Shalev I**. Development and application of pediatric-specific physiological age measures. *JAMA Pediatrics*

Bhat AC, Trexberg KM, Apsley AT<sup>#</sup>, Almeida DM, **Shalev I**. Grandparent Caregiving and Epigenetic Aging among Midlife and Older Adults in the United States. *Journals of Gerontology, Series B*

Jamshed F, Ali S, Tan ST, Mertens AN, Lin J, Butzin-Dozier Z, Rahman Z, Raqib R, Granger DA, Roy AK, Shoab AK, Dhabhar FS, Famida SL, Hossen S, Mutsuddi P, Akther S, Rahman M, Erhardt J, **Shalev I**, Markowitz AJ, Colford Jr. JM, Luby SP, Fernald LCH, Stewart CP, Lin A. Association of Micronutrient Status During Pregnancy with Early Childhood Telomere Length. *Current Developments in Nutrition*

Mullins C, Panlilio CC, Schreier HMC, **Shalev I**, Heim CM, Rose EJ, Shenk CE, Noll JG. Examining the Predictive Value of Emotion Regulation Skills on Academic Engagement for Students who have Experienced Maltreatment. *Child Maltreatment*

Lin J, Verhulst S, Alonso CF, Dagnall C, Gadalla S, Hastings WJ<sup>#</sup>, Lai TP, **Shalev I**, Wang Y, Zheng YL, Epel E, Drury S for the Telomere Research Network. Effects of DNA extraction, DNA integrity, and laboratory on the precision of qPCR-based telomere length measurement - a multi-lab impartial study. *GeroScience*.  
<https://www.biorxiv.org/content/10.1101/2022.12.14.520438v1>

### **Publications (#denotes postdoc, graduate or undergraduate mentee)**

Google Scholar Citations: 9140

h-index: 35

i10-index: 62

76. Etzel L<sup>#</sup>, Ye Q<sup>#</sup>, Apsley AT<sup>#</sup>, Chiaro C, Petri LE<sup>#</sup>, Kozlosky J, Propper C, Mills-Koonce R, Short SJ, Garrett-Peters P, **Shalev I** (2025). Maternal telomere length and oxidative stress in pregnancy: Cross-sectional analysis with an exploratory examination of systemic inflammation. *BMC Pregnancy and Childbirth*. Apr 4;25(1):395. doi: 10.1186/s12884-025-07542-y. PMID: PMC11971816

75. Apsley AT<sup>#</sup>, Ye Q<sup>#</sup>, Caspi A, Chiaro C, Etzel L<sup>#</sup>, Hastings WJ, Heim CM, Kozlosky J, Noll JG, Schreier HMC, Shenk CE, Sugden K, **Shalev I** (2025). Cross-tissue comparison of epigenetic aging clocks in humans. *Aging Cell*. Jan 9:e14451. doi: 10.1111/accel.14451. <https://www.biorxiv.org/content/10.1101/2024.07.16.603774v1.full.pdf>. PMID: 39780748
74. Ye Q<sup>#</sup>, Apsley AT<sup>#</sup>, Hastings WJ<sup>#</sup>, Etzel L<sup>#</sup>, Newschaffer C, **Shalev I** (2024). Parental age at birth, telomere length, and autism spectrum disorders in the UK Biobank cohort. *Autism Research*. Nov;17(11):2223-2231. doi: 10.1002/aur.3258. PMID: 39474987
73. Olson AE, Shenk CE, Fisher Z, Heim CM, Noll JG, **Shalev I**, Schreier HMC (2024). Pre-pandemic Individual and Household Predictors of Caregiver and Child COVID-19-Related Stress in a High-Risk Sample. *Child Protection and Practice*. Aug 1;2:100046. doi.org/10.1016/j.chipro.2024.100046
72. Etzel L<sup>#</sup>, Apsley AT<sup>#</sup>, Hastings WJ<sup>#</sup>, Ye Q<sup>#</sup>, **Shalev I** (2024). Early life adversity is associated with differential gene expression in immune cells: A cluster-based analysis across an acute psychosocial stressor. *Brain, Behavior and Immunity*. Apr 23:S0889-1591(24)00384-2. doi: 10.1016/j.bbi.2024.04.035. PMID: 38663776  
<sup>#</sup>Commentary by Anny Gano: Leukocytes: Likely not the immune system's white knights in the wake of early life adversity
71. Lin A, Mertens AN, Rahman MZ, Tan S, Il'yasova D, Spasojevic I, Ali S, Stewart CP, Fernald LCH, Kim L, Yan L, Meyer A, Karim MR, Shahriar S, Shuman G, Arnold BF, Hubbard A, Famida SL, Akther S, Hossen MS, Mutsuddi P, Shoab AK, **Shalev I**, Rahman M, Unicomb L, Heaney CD, Kariger P, Colford Jr. JM, Luby SP, Granger DA (2024). A randomized trial of water, sanitation, handwashing and nutritional interventions on stress and epigenetic programming. *Nature Communication*. Apr 26;15(1):3572. doi: 10.1038/s41467-024-47896-z. PMCID: PMC11053067
70. Butzin-Dozier Z, Mertens AN, Tan S, Granger DA, Pitchik HO, Il'yasova D, Tofail F, Rahman MZ, Spasojevic I, **Shalev I**, Ali S, Arnold BF, Kim L, Karim MR, Shahriar S, Famida SL, Shuman G, Shoab AK, Akther S, Hossen MS, Mutsuddi P, Rahman M, Unicomb L, Das KK, Yan L, Meyer A, Kariger P, Stewart CP, Hubbard A, Naved RT, Parvin K, Al Mamun MM, Luby SP, Colford Jr. JM, Fernald LCH, Lin A (2024). Stress biomarkers and child development in young children in Bangladesh. *Psychoneuroendocrinology*. Jun;164:107023. doi.org/10.1016/j.psyneuen.2024.107023. PMID: 38522372
69. Hastings WJ<sup>#</sup>, Ye Q<sup>#</sup>, Wolf SE<sup>#</sup>, Ryan CP, Das SK, Huffman KM, Kobor MS, Kraus WE, MacIsaac JL, Martin CK, Racette SB, Redman LM, Belsky DW, **Shalev I** (2024). Effect of long-term caloric restriction on telomere length in healthy adults: CALERIE™ Trial Analysis. *Aging Cell*. Mar 19:e14149. doi: 10.1111/accel.14149. PMID: 38504468
68. Wolf SE<sup>#</sup>, Hastings WJ<sup>#</sup>, Ye Q<sup>#</sup>, Etzel L<sup>#</sup>, Apsley AT<sup>#</sup>, Chiaro C, Heim CM, Heller T, Noll JG, Schreier HMC, Shenk CE, **Shalev I** (2024). Cross-tissue comparison of telomere length and metrics of DNA integrity, quality, and quantity among individuals aged 8 to 70 years. *PLoS ONE*. Feb 22;19(2):e0290918. <https://doi.org/10.1371/journal.pone.0290918>

67. Apsley AT<sup>#</sup>, Lee SA, Bhat AC, Rush J, Almeida DM, Cole SW, **Shalev I** (2024). Affective reactivity to daily stressors and immune cell gene expression in the MIDUS study. *Brain, Behavior and Immunity*. Jan;115:80-88.. doi: 10.1016/j.bbi.2023.09.025. PMID: PMC10841912
66. Etzel L<sup>#</sup>, Garrett-Peters P, **Shalev I** (2023). Early origins of health and disease risk: The case for investigating adverse exposures and biological aging in utero, across childhood, and into adolescence. *Child Development Perspectives*. <https://doi.org/10.1111/cdep.12488>
65. Apsley AT<sup>#</sup>, Ye Q<sup>#</sup>, Etzel L<sup>#</sup>, Wolf SE<sup>#</sup>, Hastings WJ<sup>#</sup>, Mattern BC, Siegel SR, **Shalev I** (2023). Biological stability of DNA methylation measurements over varying intervals of time and in the presence of acute stress. *Epigenetics*. Dec;18(1):2230686. doi.org/10.1080/15592294.2023.2230686. PMID: PMC10316737 [Impact factor = 4.861].
64. Ye Q<sup>#</sup>, Apsley AT<sup>#</sup>, Etzel L<sup>#</sup>, Hastings WJ<sup>#</sup>, Kozlosky J<sup>#</sup>, Walker C<sup>#</sup>, Wolf SE<sup>#</sup>, **Shalev I** (2023). Telomere length and chronological age across the human lifespan: a systematic review and meta-analysis of 414 study samples including 743,019 individuals. *Ageing Research Reviews*. Sep;90:102031. doi.org/10.1016/j.arr.2023.102031. PMID: 37268182 [Impact factor = 11.788].
63. Wolf SE<sup>#</sup> and **Shalev I** (2023). The shelterin protein expansion of telomere dynamics: linking early life adversity, life history, and the hallmarks of aging. *Neuroscience & Biobehavioral Reviews*. May 31;105261. doi: 10.1016/j.neubiorev.2023.105261. PMID: 37268182 [Impact factor = 9.052].
62. Haag AC, Cha CB, Noll JG, Gee DG, Shenk CE, Schreier HMC, Heim CM, **Shalev I**, Rose EJ, Jorgensen A, Bonanno GA (2023). The Flexible Regulation of Emotional Expression Scale for Youth (FREE-Y): Adaptation and validation across a varied sample of children and adolescents. *Assessment*. Jun;30(4):1265-1284. doi: 10.1177/10731911221090465. PMID: PMC9636062 [Impact factor = 4.282].
61. Beijers R, Thije IT, Bolhuis E, O'Donnell KJ, Tollenaar MS, **Shalev I**, Hastings WJ<sup>#</sup>, MacIsaac J, D Lin, M Meaney, M Kobor, Belsky J, de Weerth C (2023). Cumulative risk exposure and child cellular aging in a Dutch community sample. *Psychophysiology*. Apr;60(4):e14205. doi: 10.1111/psyp.14205. PMID: 36323627 [Impact factor = 4.348].
60. Waziry R, Ryan CP, Corcoran DL, Huffman KM, Kobor MS, Kothari M, Graf GH, Kraus VB, Kraus WE, Lin DTS, Pieper CF, Ramaker ME, Bhapkar M, Das SK, Ferrucci L, Hastings WJ<sup>#</sup>, Kebbe M, Parker DC, Racette SB, **Shalev I**, Schilling B, Belsky DW (2023). Effect of long-term caloric restriction on DNA methylation measures of biological aging in healthy adults: CALERIE™ Trial analysis. *Nature Aging*. Mar;3(3):248-257. doi: 10.1038/s43587-022-00357-y. PMID: PMC10148951 [Impact factor = 8.48].
59. Apsley AT<sup>#</sup>, Etzel L<sup>#</sup>, Hastings WJ<sup>#</sup>, Heim CM, Noll JG, O'Donnell KJ, Schreier HMC, Shenk CE, Ye Q<sup>#</sup>, **Shalev I** (2023). Investigating the Effects of Maltreatment and Acute Stress on the Concordance of Blood and DNA Methylation Methods of Estimating Immune Cell Proportions. *Clinical Epigenetics*. Feb 28;15(1):33. doi: 10.1186/s13148-023-01437-5. PMID: PMC9976543 [Impact factor = 7.28].

58. Etzel L<sup>#</sup>, Apsley AT<sup>#</sup>, Mattern BC<sup>#</sup>, Hastings WJ<sup>#</sup>, Heller T<sup>#</sup>, Ram N, Siegel SR, **Shalev I** (2022). Immune cell dynamics in response to an acute laboratory stressor: A within-person between-group analysis of the biological impact of early life adversity. *Stress*. Nov 21;25(1):347-356. doi: 10.1080/10253890.2022.2148100. PMID: PMC9704543 [Impact factor = 3.34].
57. Bolhuis E, Belsky J, Frankenhuis WE, **Shalev I**, Hastings WJ<sup>#</sup>, Tollenaar MS, O'Donnell KG, McGill MG, Pokhvisneva I, Lin DTS, MacIsaac JL, Kobor MS, de Weerth C, Beijers R (2022). Attachment insecurity and the biological embedding of reproductive strategies: Investigating the role of cellular aging. *Biological Psychology*. Nov;175:108446. doi.org/10.1016/j.biopsycho.2022.108446. PMID: 36272562 [Impact factor = 3.111].
56. Armstrong ND, Irvin MR, Haley WE, Blinka MD, Mukaz DK, Patki A, Siegel SR, **Shalev I**, Durda P, Mathias RA, Walston JD, Roth DL (2022). Telomere shortening and the transition to family caregiving in the Reasons for Geographic and Racial Differences in Stroke (REGARDS) Study. *PLoS One*. Jun 3;17(6):e0268689. doi: 10.1371/journal.pone.0268689. PMID: PMC9165822. [Impact factor = 3.752].
55. Etzel L<sup>#</sup>, Hastings WJ<sup>#</sup>, Hall MA, Heim CM, Meaney MJ, Noll JG, O'Donnell KJ, Pokhvisneva I, Rose EJ, Schreier HMC, Shenk CE, **Shalev I** (2022). Obesity and accelerated epigenetic aging in a high-risk cohort of children. *Scientific Reports*. May 18;12(1):8328. doi.org/10.1038/s41598-022-11562-5. PMID: PMC9117197. [Impact factor = 4.996].
54. Hastings WJ<sup>#</sup>, Etzel L<sup>#</sup>, Heim CM, Noll JG, Rose EJ, Schreier HMC, Shenk CE, Tang X, **Shalev I** (2022). Comparing qPCR and DNA methylation-based measurements of telomere length in a high-risk pediatric cohort. *Aging (Albany NY)*. Jan 24;14(2):660-677. doi.org/10.18632/aging.203849. PMID: PMC8833135. [Impact factor = 5.955].
53. Azulay H, Guy N, **Shalev I**, Pertzov Y, Israel S (2021). Social evaluation under stress: Does acute stress affect social attributions and eye gaze? *Comprehensive Psychoneuroendocrinology*. Oct 14;8:100093. doi.org/10.1016/j.cpnec.2021.100093. PMID: PMC9216653.
52. Hastings WJ<sup>#</sup>, Eisenberg DTA, **Shalev I** (2021). Impact of amplification efficiency approaches on telomere length measurement via qPCR. *Frontiers in Genetics*. Sep 17;12:728603. doi: 10.3389/fgene.2021.728603. PMID: PMC8484782. [Impact factor = 4.772].
51. Hastings WJ<sup>#</sup>, Almeida DM, **Shalev I** (2021). Conceptual and analytical overlap between allostatic load and systemic biological aging measures: Analyses from the National Survey of Midlife Development in the United States. *The Journals of Gerontology: Series A*. Jun 1;77(6):1179-1188. doi: 10.1093/gerona/glab187. PMID: PMC9159656. [Impact factor = 6.053].
50. Li JC, Hall MA, **Shalev I**, Schreier HMC, Zarzar TG, Marcovici I, Putnam FW, Noll JG (2021). Hypothalamic-pituitary-adrenal axis attenuation and obesity risk in sexually abused females. *Psychoneuroendocrinology*. Jul;129:105254. doi: 10.1016/j.psyneuen.2021.105254. PMID: PMC8217375 [Impact factor = 4.905].

49. Schreier HMC, Heim CM, Rose EJ, **Shalev I**, Shenk CE, Noll JG (2021). Assembling a cohort for in-depth, longitudinal assessments of the biological embedding of child maltreatment: Methods, complexities, and lessons learned. *Development and Psychopathology*. May;33(2):394-408. doi: 10.1017/S0954579420001510. PMID: PMC8177053 [Impact factor = 5.317].
48. Tollenaar MS, Beijers R, Garg E, Nguyen TT, Lin DT, MacIsaac JL, **Shalev I**, Kobor MS, Meaney MJ, O'Donnell KJ, de Weerth C (2021). Internalizing symptoms associate with the pace of epigenetic aging in childhood. *Biological Psychology*. Feb;159:108021. doi: 10.1016/j.biopsycho.2021.108021. PMID: 33460784. [Impact factor = 2.763].
47. Hastings WJ<sup>#</sup>, Eisenberg DTA, **Shalev I** (2020). Uninterruptible power source improves precision of telomere length measurement via qPCR. *Experimental Results*. 1:e52. doi: <https://doi.org/10.1017/exp.2020.58>. PMID: PMC7954403
46. Etzel L<sup>#</sup>, Hastings WJ<sup>#</sup>, Mattern BC<sup>#</sup>, Oxford ML, Heim C, Putnam FW, Noll JG, **Shalev I**. (2020). Intergenerational transmission of childhood trauma? Testing cellular aging in mothers exposed to sexual abuse and their children. *Psychoneuroendocrinology*. Oct;120:104781. doi: 10.1016/j.psyneuen.2020.104781. PMID: PMC1605503 [Impact factor = 4.905].
45. **Shalev I**, Hastings WJ<sup>#</sup>, Etzel L<sup>#</sup>, Israel S, Russell MA, Hendrick KA<sup>#</sup>, Zinobile M, Siegel SR. (2020). Investigating the impact of early-life adversity on physiological, immune, and gene expression responses to acute stress: A pilot feasibility study. *PLoS One*. Apr 3;15(4):e0221310. doi: 10.1371/journal.pone.0221310. PMID: PMC7122782 [Impact factor = 3.752].
44. Beijers R, Hartman S, **Shalev I**, Hastings WJ<sup>#</sup>, Mattern B<sup>#</sup>, de Weerth C, Belsky J. (2020). Testing three hypotheses about effects of sensitive–insensitive parenting on telomeres. *Developmental Psychology*. Feb;56(2):237-250. doi: 10.1037/dev0000879. PMID: PMC7391860 [Impact factor = 3.845].
43. Beijers R, Daehn D, **Shalev I**, Belsky J, de Weerth C. (2020). Biological embedding of maternal postpartum depressive symptoms: The potential role of cortisol and telomere length. *Biological Psychology*. Feb;150:107809. doi: 10.1016/j.biopsycho.2019.107809. PMID: 31734351 [Impact factor = 2.763].
42. Hastings WJ<sup>#</sup>, **Shalev I**, Belsky DW. (2019). Comparability of biological aging measures in the National Health and Nutrition Examination Study, 1999–2002. *Psychoneuroendocrinology*. Aug;106:171-178. doi: 10.1016/j.psyneuen.2019.03.012. PMID: PMC6599717 [Impact factor = 4.905].
41. Bloch B, Levin R, Vadas L, **Shalev I**, Israel S, Uzefovsky F, Granot R, Bachner-Melman R, Reshef A, Ebstein RP, Kremer I. (2019). Sex-specific effect of intranasal vasopressin, but not oxytocin, on emotional recognition and perception in schizophrenia patients. *Israel Journal of Psychiatry*, 56(1), 21-25.

40. Hastings WJ<sup>#</sup>, Chang A-M, Ebstein RP, **Shalev I**. (2018). Neuroendocrine stress response is moderated by sex and sex hormone receptor polymorphisms. *Hormones and Behavior*. Nov;106:74-80. doi: 10.1016/j.yhbeh.2018.10.002. PMID: PMC6324727 [Impact factor = 4.445]
39. Zhong Z<sup>\*</sup>, **Shalev I**<sup>\*</sup>, Koh D, Ebstein RP, Chew SH. (2018). Competitiveness and stress. *International Economic Review*, 59(3), 1263-1281. Available at SSRN: <http://ssrn.com/abstract=2717459> or <https://doi.org/10.1111/iere.12303>. [Impact factor = 1.418]. \*These authors contributed equally to this work.
38. Belsky DW, Huffman KM, Peiper KF, **Shalev I**, Kraus WE. (2018). Change in the rate of biological aging in response to caloric restriction: CALERIE Biobank analysis. *The Journals of Gerontology: Series A*. Dec 12;73(1):4-10. doi: 10.1093/gerona/glx096. PMID: PMC5861848 [Impact factor = 6.053]
37. Hastings WJ<sup>#</sup>, **Shalev I**, Belsky DW. (2017). Translating measures of biological aging to test effectiveness of geroprotective interventions: what can we learn from research on telomeres?. *Frontiers in Genetics*. Nov 22;8:164. doi: 10.3389/fgene.2017.00164. PMID: PMC5702647 [Impact factor = 4.772].
36. Brody GH, Yu T, **Shalev I**. (2017). Risky family processes prospectively forecast shorter telomere length mediated through negative emotions. *Health Psychology*. May;36(5):438-444. doi: 10.1037/hea0000443. PMID: PMC5398935 [Impact factor = 5.556]
35. Noll JG, Trickett PK, Long JD, Negri S, Susman EJ, **Shalev I**, Li JC, Putnam FW. (2017). Childhood sexual abuse and early timing of puberty. *Journal of Adolescent Health*. Jan;60(1):65-71. doi: 10.1016/j.jadohealth.2016.09.008. PMID: 27836531 [Impact factor = 7.830]
34. Belsky J<sup>\*</sup>, **Shalev I**<sup>\*</sup>. (2016). Contextual adversity, telomere erosion, pubertal development, and health: Two models of accelerated aging, or one?. *Development and Psychopathology*. Nov;28(4pt2):1367-1383. doi: 10.1017/S0954579416000900. PMID: 27688015 \*These authors contributed equally to this work. [Impact factor = 5.317]
33. **Shalev I**, Heim CM, Noll JG. (2016). Child maltreatment as a root cause of mortality disparities: a call for rigorous science to mobilize public investment in prevention and treatment. *JAMA Psychiatry*. Sep 1;73(9):897-8. doi: 10.1001/jamapsychiatry.2016.1748. PMID: 27552469 [Impact factor = 25.94].
32. **Shalev I**, Belsky J. (2016). Early-life stress and reproductive cost: A two-hit developmental model of accelerated aging?. *Medical Hypotheses*. May;90:41-7. doi: 10.1016/j.mehy.2016.03.002. PMID: 27063083 [Impact factor = 4.411].
31. Yim OS, Zhang X, **Shalev I**, Monakhov M, Zhong S, Chew SH, Lai PS, Ebstein RP. (2016). Delay discounting, genetic sensitivity, and leukocyte telomere length. *Proceedings of the National Academy of Sciences*. Mar 8;113(10):2780-5. doi: 10.1073/pnas.1514351113. PMID: PMC4790989 [Impact factor = 12.779].

30. Thomson WM, Zeng J, Broadbent JM, Foster Page LA, **Shalev I**, Moffitt TE, Caspi A, Braithwaite AW, Poulton R. (2016). Telomere length and periodontal attachment loss: a prospective cohort study. *Journal of Clinical Periodontology*. Feb;43(2):121-7. doi: 10.1111/jcpe.12499. PMID: PMC4775379 [Impact factor = 7.478].
29. Sugden K, Danese A, **Shalev I**, Williams BS, Caspi A. (2015). Blood substrate collection and handling procedures under pseudo-field conditions: evaluation of suitability for inflammatory biomarker measurement. *Biodemography and Social Biology*, 61(3), 273-284. doi: 10.1080/19485565.2015.1062717. PMID: PMC4699675 [Impact factor = 1.222].
28. Uzefovsky F, **Shalev I**, Israel S, Edelman S, Raz Y, Mankuta D, Knafo A, Ebstein RP. (2015). Oxytocin receptor and vasopressin receptor 1a genes are respectively associated with emotional and cognitive empathy. *Hormones and Behavior*. Jan;67:60-5. doi: 10.1016/j.yhbeh.2014.11.007. PMID: 25476609 [Impact factor = 4.445].
27. **Shalev I**, Caspi A, Ambler A, Belsky DW, Chapple S, Cohen HJ, Israel S, Poulton R, Ramrakha S, Rivera CD, Sugden K, Williams B, Wolke D, Moffitt TE. (2014). Perinatal complications and aging indicators by midlife. *Pediatrics*. Nov;134(5):e1315-23. doi: 10.1542/peds.2014-1669. PMID: PMC4210799 [Impact factor = 7.124].  
#Commentary by Alan Guttmacher, director of NICHD, "The Child Is Father of the Man, and Mother of the Woman". *Pediatrics*. 2014 Oct. doi: 10.1542/peds.2014-2646.
26. Zozulinsky P, Greenbaum L, Brande-Eilat N, Braun Y, **Shalev I**, Tomer R. (2014). Dopamine system genes are associated with orienting bias among healthy individuals. *Neuropsychologia*. Sep;62:48-54. doi: 10.1016/j.neuropsychologia.2014.07.005. PMID: 25038551 [Impact factor = 3.054].
25. Belsky DW, **Shalev I**, Sears MR, Hancox RJ, Harrington H, Houts RM, Moffitt TE, Sugden K, Williams B, Poulton R, Caspi A. (2014). Is chronic asthma associated with shorter leukocyte telomere length at midlife?. *American Journal of Respiratory and Critical Care Medicine*. Aug 15;190(4):384-91. doi: 10.1164/rccm.201402-0370OC. PMID: PMC4214127 [Impact factor = 30.528].  
#Editorial by Stefano Guerra. New Asthma Biomarkers: Shorter Telomeres, Longer Disease? *American Journal of Respiratory and Critical Care Medicine*, 190(4):356-358, 2014.
24. Uzefovsky F, **Shalev I**, Israel S, Edelman S, Raz Y, Perach-Barzilay N, Mankuta D, Shamay-Tsoory SG, Knafo A, Ebstein RP. (2014). The Dopamine D4 receptor gene shows a gender-sensitive association with cognitive empathy: Evidence from two independent samples. *Emotion*. Aug;14(4):712-21. doi: 10.1037/a0036555. PMID: 24866520 [Impact factor = 5.564].
23. **Shalev I**, Moffitt TE, Braithwaite AW, Danese A, Fleming NI, Goldman-Mellor S, Harrington H, Houts RM, Israel S, Poulton R, Robertson SP, Sugden K, Williams B, Caspi A. (2014). Internalizing disorders and leukocyte telomere erosion: a prospective study of depression, generalized anxiety disorder and post-traumatic stress disorder. *Molecular Psychiatry*. Nov;19(11):1163-70. doi: 10.1038/mp.2013.183. PMID: PMC4098012. [Impact factor = 13.437].

22. Caspi A, Houts RM, Belsky DW, Goldman-Mellor S, Harrington H, Israel S, Meier MH, **Shalev I**, Poulton R, Moffitt TE. (2014). The p factor: one general psychopathology factor in the structure of psychiatric disorders?. *Clinical Psychological Science*. Mar;2(2):119-137. doi: 10.1177/2167702613497473. PMID: PMC4209412 [Impact factor = 7.169].
21. **Shalev I** and Ebstein RP. (2013). Frontiers in oxytocin science: from basic to practice. *Frontiers in Neuroscience*. Dec 23;7:250. doi: 10.3389/fnins.2013.00250. PMID: PMC3870278 [Impact factor = 5.152].
20. Klaus-Grawe Think Tank 2012. (2013). Childhood exposure to violence and lifelong health: Clinical intervention science and stress-biology research join forces. *Development and Psychopathology*. Nov;25(4 Pt 2):1619-34. doi: 10.1017/S0954579413000801. PMID: PMC3869039 [Impact factor = 5.317].
19. Meier M\*, **Shalev I**\*, Moffitt TE, Kapur S, Keefe R, Wong T, Belsky DW, Harrington H, Hogan S, Houts R, Caspi A, Poulton R. (2013). Microvascular abnormality in schizophrenia as shown by retinal imaging. *American Journal of Psychiatry*. Dec;170(12):1451-9. doi: 10.1176/appi.ajp.2013.13020234. PMID: PMC3857729 [Impact factor = 18.112].  
\*These authors contributed equally and are listed in alphabetical order.  
#Article was featured on the cover of the December 2013 Issue of *American Journal of Psychiatry*.
18. Maysless M, Uzevsky F, **Shalev I**, Ebstein RP, Shamay-Tsoory SG. (2013). The association between creativity and 7R polymorphism in the dopamine receptor D4 gene (DRD4). *Frontiers in Human Neuroscience*. Aug 26;7:502. doi: 10.3389/fnhum.2013.00502. PMID: PMC3752433 [Impact factor = 3.473].
17. **Shalev I**, Entringer S, Wadhwa PD, Wolkowitz OM, Puterman E, Lin J, Epel ES. (2013). Stress and telomere biology: a lifespan perspective. *Psychoneuroendocrinology*. Sep;38(9):1835-42. doi: 10.1016/j.psyneuen.2013.03.010. PMID: PMC3735679. [Impact factor = 4.905].
16. **Shalev I**, Moffitt TE, Wong TY, Meier MH, Houts RM, Ding J, Cheung CYL, Ikram MK, Caspi A, Poulton R. (2013). Retinal vessel caliber and lifelong neuropsychological functioning: retinal imaging as an investigative tool for cognitive epidemiology. *Psychological Science*. Jul 1;24(7):1198-207. doi: 10.1177/0956797612470959. PMID: PMC3713191. [Impact factor = 7.029].
15. **Shalev I**, Moffitt TE, Sugden K, Williams B, Houts RM, Danese A, Mill J, Arseneault L, Caspi A. (2013). Exposure to violence during childhood is associated with telomere erosion from 5 to 10 years of age: a longitudinal study. *Molecular Psychiatry*. May;18(5):576-81. doi: 10.1038/mp.2012.32. PMID: PMC3616159 [Impact factor = 13.437].  
\*Article has been recommended by Faculty of 1000.  
# The study appeared on the cover page of *USA Today*, and in countless media outlets including; *Science*, *Time Magazine*, *Los Angeles Times*, *Smithsonian* and *Der Spiegel*, among others.

14. Edelman S\*, **Shalev I\***, Uzefovsky F, Israel S, Knafo A, Kremer I, Kaitz M, Ebstein RP. (2012). Epigenetic and genetic factors predict women's salivary cortisol following a threat to the social self. *PLoS One*. 7(11):e48597. doi: 10.1371/journal.pone.0048597. PMID: PMC3498240 [Impact factor = 3.752].  
\*These authors contributed equally to this work.
13. **Shalev I.** (2012). Early life stress and telomere length: investigating the connection and possible mechanisms: a critical survey of the evidence base, research methodology and basic biology. *Bioessays*. Nov;34(11):943-52. doi: 10.1002/bies.201200084. PMID: PMC3557830. [Impact factor = 4.345].  
\*Article was chosen as one of the highlights of the November Issue of BioEssays.
12. Uzefovsky F, **Shalev I**, Israel S, Knafo A, Ebstein RP. (2012). Vasopressin selectively impairs emotion recognition in men. *Psychoneuroendocrinology*. Apr;37(4):576-580. doi: 10.1016/j.psyneuen.2011.07.018. PMID: 21856082 [Impact factor = 4.905].
11. Feldman R, Zagoory-Sharon O, Weisman O, Schneiderman I, Gordon I, Maoz R, **Shalev I**, Ebstein RP. (2012). Sensitive parenting is associated with plasma oxytocin and polymorphisms in the OXTR and CD38 genes. *Biological Psychiatry*. Aug 1;72(3):175-81. doi: 10.1016/j.biopsych.2011.12.025 [Impact factor = 13.382].  
#Editorial by Brunetti E & Malavasi F. CD38 and behavior: moving from correlation to causality? *Biological Psychiatry*, 2012;72(3):168-70.
10. Kaitz M, Sabato R, **Shalev I**, Ebstein RP, Mankuta D. (2012). Children's noncompliance during saliva collection predicts measures of salivary cortisol. *Developmental Psychobiology*. Mar;54(2):113-23. doi: 10.1002/dev.20580. PMID: 21761405 [Impact factor = 3.038].
9. Avinun R, Israel S, **Shalev I**, Gritsenko I, Bornstein G, Ebstein RP, Knafo A. (2011). AVPR1A variant associated with preschoolers' lower altruistic behavior. *PLoS One*. 6(9):e25274. doi: 10.1371/journal.pone.0025274. PMID: PMC3182215 [Impact factor = 3.752].
8. **Shalev I**, Israel S, Uzefovsky F, Gritsenko I, Kaitz M, Ebstein RP. (2011). Vasopressin needs an audience: neuropeptide elicited stress responses are contingent upon perceived social evaluative threats. *Hormones and Behavior*. Jun;60(1):121-7. doi: 10.1016/j.yhbeh.2011.04.005. PMID: 21554881 [Impact factor = 4.445].
7. Zhong S, Israel S, **Shalev I**, Xue H, Ebstein RP, Chew SH. (2010). Dopamine D4 receptor gene associated with fairness preference in ultimatum game. *PLoS One*. Nov 3;5(11):e13765. doi: 10.1371/journal.pone.0013765. PMID: PMC2972208 [Impact factor = 3.752].
6. Perry A, Bentin S, **Shalev I**, Israel S, Uzefovsky F, Bar-On D, Ebstein RP. (2010). Intranasal oxytocin modulates EEG mu/alpha and beta rhythms during perception of biological motion. *Psychoneuroendocrinology*. Nov;35(10):1446-53. doi: 10.1016/j.psyneuen.2010.04.011. PMID: 20493637 [Impact factor = 4.905].

5. Kaitz M, **Shalev I**, Gottlieb N, Samet K, Zohar A, Ebstein RP, Mankuta D. (2010). Mothers' dopamine receptor polymorphism modulates the relation between infant fussiness and sensitive parenting. *Developmental Psychobiology*. Mar;52(2):149-57. doi: 10.1002/dev.20423. PMID: 20175141 [Impact factor = 3.038].
4. Ebstein RP, Israel S, Lerer E, Uzefovsky F, **Shalev I**, Gritsenko I, Riebold M, Salomon S, Yirmiya N. (2009). Arginine vasopressin and oxytocin modulate human social behavior. *Annals of the New York Academy of Sciences*. Jun;1167:87-102. doi: 10.1111/j.1749-6632.2009.04541.x. PMID: 19580556 [Impact factor = 5.167].
3. Israel S, Lerer E, **Shalev I**, Uzefovsky F, Riebold M, Laiba E, Bachner-Melman R, Maril A, Bornstein G, Knafo A, Ebstein RP. (2009). The oxytocin receptor (OXTR) contributes to prosocial fund allocations in the dictator game and the social value orientations task. *PLoS One*. May 20;4(5):e5535. doi: 10.1371/journal.pone.0005535. PMCID: PMC2680041 [Impact factor = 3.752].
2. Levin R, Heresco-Levy U, Bachner-Melman R, Israel S, **Shalev I**, Ebstein RP. (2009). Association between arginine vasopressin 1a receptor (AVPR1a) promoter region polymorphisms and prepulse inhibition. *Psychoneuroendocrinology*. Jul;34(6):901-8. doi: 10.1016/j.psyneuen.2008.12.014. PMID: 19195791 [Impact factor = 4.905].
1. **Shalev I**, Lerer E, Israel S, Uzefovsky F, Gritsenko I, Mankuta D, Ebstein RP, Kaitz M. (2009). BDNF Val66Met polymorphism is associated with HPA axis reactivity to psychological stress characterized by genotype and gender interactions. *Psychoneuroendocrinology*. Apr;34(3):382-8. doi: 10.1016/j.psyneuen.2008.09.017. PMID: 18990498 [Impact factor = 4.905].

### Books

Noll JG and **Shalev I** (Eds.). (2018). *The biology of early life stress: understanding child maltreatment and trauma*. Springer International Publishing. ISSN 2509-7156. ISBN 978-3-319-72588-8. DOI: 10.1007/978-3-319-72589-5.

**Shalev I** and Ebstein RP (Eds.). (2015). *Social Hormones and Human Behavior: What Do We Know and Where Do We Go from Here*. Frontiers Media SA. ISSN 1664-8714. ISBN 978-2-88919-407-0. DOI: 10.3389/978-2-88919-407-0.

### Book Chapters

Etzel LC<sup>#</sup> and **Shalev I**. (2021). Effects of psychological stress on telomeres as genome regulators. In *Handbook of Stress Volume 4: Stress Genetics, Epigenetics, Genomics*. Ed. George Fink (pp. 109-117). Academic Press.

**Shalev I** and Hastings WJ<sup>#</sup>. (2019). Psychosocial stress and telomere regulation. In Miu AC, Homberg JR, & Lesch KP (Eds). *Genes, brain, and emotions: Interdisciplinary and Translational Perspectives*. Oxford, UK: Oxford University Press. ISBN: 9780198793014

Ebstein RP., **Shalev I**, Israel S., Uzefovsky F., Avinun R., Knafo A., Yirmiya N., Mankuta D. (2013). Oxytocin and vasopressin in human sociality and social psychopathologies. In *Oxytocin, Vasopressin and Related Peptides in the Regulation of Behavior*, p. 343. Cambridge University Press.

Levin R., Edelman S., **Shalev I.**, Ebstein RP., Heresco-Levy U. (2010). The role of oxytocin in schizophrenia, anxiety and mood disorders: concepts and mechanisms. In *Brain Protection in Schizophrenia, Mood and Cognitive Disorders* (pp. 611-635). Springer, Dordrecht.

**Shalev I.**, Lerer E., Israel S., Uzefovsky F., Gritsenko I., Mankuta D., Kaitz M. and Ebstein R.P. (2009). Individual differences in reactivity to social stress in the laboratory and its mediation by common genetic polymorphisms. In *Stress-From Molecules to Behavior: A Comprehensive Analysis of the Neurobiology of Stress Responses*, (pp. 93-116). Wiley-Blackwell.

Israel S, Lerer E, **Shalev I**, Uzefovsky F, Reibold M, Bachner-Melman R, Granot R, Bornstein G, Knafo A, Yirmiya N, Ebstein RP. (2008). Molecular genetic studies of the arginine vasopressin 1a receptor (AVPR1a) and the oxytocin receptor (OXTR) in human behaviour: from autism to altruism with some notes in between. *Progress in Brain Research*, 170, 435-449. PMID: 18655900

### **Encyclopedia Entries**

**Shalev I.** & Hastings WJ<sup>#</sup>. (2018). Telomere. In Bornstein MH (Gen Ed). *The SAGE Encyclopedia of Lifespan Human Development*. SAGE Publications. DOI: <http://dx.doi.org/10.4135/9781506307633.n822>

**Shalev I.** & Hastings WJ<sup>#</sup>. (2018). Psychological Stress and Cellular Aging. In *Oxford Research Encyclopedia of Psychology*. Ed. Oliver Braddick. New York: Oxford University Press. DOI: 10.1093/acrefore/9780190236557.013.131.

### **Oral Presentations (Professional Meetings) (#denotes graduate or undergraduate mentee)**

**Shalev I.** Telomere Length Analysis in CALERIE<sup>TM</sup>. *The Comprehensive Assessment of the Long-term Effects of Reducing Intake of Energy (CALERIE<sup>TM</sup>) Summit*. Scottsdale AZ, April 2023

**Shalev I** and Wolf S, Cross-tissue comparison of telomere length and DNA QC metrics across two cohorts. *NIH Telomere Research Network Annual Meeting*, Durham NC, March 2023

Hastings WJ, Fox N, Heim CM, Nelson C, Noll JG, Schreier HMC, Shenk CE, Zeanah C, Drury SS, **Shalev I.** Investigating Biological Aging and Pubertal Development in Two High-Risk Pediatric Cohorts. *Society for Research in Child Development (SRCD)*. Utah, UT, USA. March 2023

Apsley AT<sup>#</sup>, Lee SA, Bhat AC, Almeida DM, **Shalev I.** Affective Reactivity to Daily Stressors and Immune Gene Expression in the MIDUS Study. *The Gerontological Society of America (GSA) 2022 Annual Scientific Meeting*. Indianapolis, IN, November 2022

**Shalev I.** Examining DNA integrity and QC metrics across multiple tissues. *NIH Telomere Research Network Annual Meeting*. New-Orleans, LA, December 2021

**Shalev I.** Testing the Impact of DNA integrity Across Multiple Tissues on Telomere Length Measurements via qPCR. *54th Annual Meeting of the International Society for Developmental Psychobiology (ISDP)*. Virtual, November 2021

**Shalev I.** Impact of cell type on DNA integrity, and efficiency approach and uninterruptible power supply on qPCR estimates. *NIH Telomere Research Network Annual Meeting*. Virtual, December 2020

Hastings WJ<sup>#</sup> and **Shalev I.** Uninterruptible Power Supply Improves Precision of Telomere Length Measurement via qPCR. *The Gerontological Society of America (GSA) 2020 Annual Scientific Meeting*. Virtual, November 2020

Hastings WJ<sup>#</sup> and **Shalev I.** Allostatic Load and Biological Aging Indicators in The MIDUS National Survey. *The Gerontological Society of America (GSA) 2020 Annual Scientific Meeting*. Virtual, November 2020

**Shalev I.** Intergenerational Transmission of Childhood Trauma? Testing Cellular Aging in Mothers Exposed to Sexual Abuse and Their Children. *American Academy of Child and Adolescent Psychiatry (AACAP) Annual Meeting*, Virtual, October 2020.

**Shalev I.** The Comparability and Reproducibility of Telomere Length Measurements for Population-based Studies. *NIH Telomere Research Network Kick Off Meeting*. Bethesda, MD, December 2019

Etzel L<sup>#</sup>, & **Shalev I.** Modeling the Age-Varying Link between Cytomegalovirus Infection and Telomere Length in a Nationally Representative Sample of US Adults. *Diversity in Telomere Dynamics*, University of Glasgow, Edinburgh, Scotland. October 2019

Hastings WJ<sup>#</sup>, Belsky D, **Shalev I.** Comparability of Biological Aging Measures in the National Health and Nutrition Examination Study, 1999-2002. *49<sup>th</sup> Annual ISPNE Conference*. Milan, Italy, August 2019.

**Shalev I.** Telomere length and its relevance to CALERIE. *2018 CALERIE Research Network Workshop: Facilitating CALERIE-Based Ancillary Studies*. Chicago, IL, USA. August 2018.

**Shalev I.** Biological Embedding of Early-Life Adversity: Challenges and Opportunities. *Child Abuse and Trauma New frontiers in science, practice, and prevention*. The University of Texas, Tyler, Texas, USA. April 2018.

**Shalev I.** Biological Embedding of Early-Life Adversity: Challenges and Opportunities. *Cognitive, Affective, and Social Processes in Health Research (CASPHR) Workshop on "Health Impacts of Adversity, Vulnerability and Resilience"*. National Cancer Institute, Rockville, Maryland, USA. November 2017.

**Shalev I,** Noll JG. Early Timing of Puberty for Sexually Abused Females. *American Academy of Child and Adolescent Psychiatry (AACAP) 64th Annual Meeting*. Washington, DC, USA, October 2017.

**Shalev I.** Lessons for Development of Biomarkers of Aging from Telomere Research. *National Institute of Environmental Health Sciences and National Institute on Aging: Telomeres as Sentinels for Environmental Exposures, Psychosocial Stress, and Disease Susceptibility*. Research Triangle Park, NC, USA, September 2017.

**Shalev I.** Biological Embedding of Early-Life Adversity: Challenges and Opportunities. *Inaugural Program for Translational Research on Adversity and Neurodevelopment (P-TRAN) 2017 Symposium*. University Park, PA, USA. May 2017.

**Shalev I.,** Hastings WJ, Siegel S. Early-Life Adversity is Associated with Differential Gene Expression Response to Acute Psychological Stress. *46<sup>th</sup> Annual ISPNE Conference*. Miami, USA, September 2016.

**Shalev I.** Perinatal Complications Predict Subjective and Objective Aging Indicators by Midlife. *Pediatric Research Day*. Penn State Hershey, PA, USA. May 2016.

**Shalev I.** Early-life adversity and telomere erosion: Evidence from two longitudinal studies. *Penn State's Fourth Annual Conference on Child Protection and Well-Being*. University Park, PA, USA. September 2015.

Belsky J and **Shalev. I.** Contextual Adversity, Telomere Erosion, Pubertal Development and Health: Two Models of Accelerated Aging—or One? *Epigenetics: Development, Psychopathology, Resilience, and Preventive Intervention*. Minneapolis, MN, USA. May 2015.

**Shalev I.** Perinatal Complications Predict Subjective and Objective Aging Indicators by Midlife. *Society for Research in Child Development (SRCD)*. Philadelphia, PA, USA. March 2015.

**Shalev I.** Early life stress, mental health and telomere erosion: Evidence from two longitudinal studies. *Diversity in Telomere Dynamics workshop*. Drymen, Scotland, November 2014.

**Shalev I.** Jacobs Foundation Conference. *The Genetic Moderation (and Mediation) of Intervention Efficacy*. Marbach Castle, Germany, April 2013.

**Shalev I,** Moffitt TE, Caspi A. Exposure to violence during childhood is associated with telomere erosion from 5 to 10 years of age: a longitudinal study. *42<sup>nd</sup> Annual ISPNE Conference*. New York, USA, September 2012. (Presented in a symposium chaired by Nobel laureate Elizabeth Blackburn)

**Shalev I,** Moffitt TE, Caspi A. Psychobiological effects of juvenile violence exposure: effects on telomere erosion. *The 3<sup>rd</sup> Klaus-Grawe-Think-Tank-Meeting (KGTM2012)*. Zuoz, Switzerland, June 2012.

**Shalev I.** Exposure to violence during childhood is associated with telomere erosion from 5 to 10 years of age: a longitudinal study. *Duke University Population Research Institute (DuPRI)*, Duke University, USA. February 2012.

**Shalev I,** Israel S, Uzefovsky F, Gritsenko I, Kaitz M, Ebstein RP. Intranasal administration of arginine vasopressin enhances salivary cortisol rise following social stress (Trier Social Stress Test). *40<sup>th</sup> Annual ISPNE Conference*. San-Francisco, USA, July 2009.

**Shalev I,** Israel S, Uzefovsky F, Gritsenko I, Kaitz M, Ebstein RP. Intranasal administration of arginine vasopressin enhances salivary cortisol rise following social stress (Trier Social Stress Test). *The 2nd DGPA Spring School*, Dresden, Germany, March 2009.

**Shalev I**, Israel S, Uzefovsky F, Gritsenko I, Kaitz M, Ebstein RP. Intranasal administration of arginine vasopressin enhances salivary cortisol rise following social stress (Trier Social Stress Test). *13<sup>th</sup> annual meeting of the Israel Society for Biological Psychiatry*. Hagoshrim, Israel, March 2009. (Published as abstract in: *Israel Journal of Psychiatry* 2008;46:Sup 1, p.34)

**Shalev I.**, Lerer E, Gritsenko I, Kaitz M, and Ebstein RP. BDNF Val66Met polymorphism modulates HPA axis reactivity to psychological stress. *39<sup>th</sup> Annual ISPNE Conference*. Dresden, Germany, July 2008.

**Shalev I**, Lerer E, Gritsenko I, Kaitz M, and Ebstein RP. BDNF Val66Met polymorphism modulates HPA axis reactivity to psychological stress differently in adults and young men and women. *12<sup>th</sup> annual meeting of the Israel Society for Biological Psychiatry*. Kfar Giladi, Israel, March 2008. (Published as abstract in: *Israel Journal of Psychiatry* 2008;45:Sup 1, p.14)

**Shalev I**, Gritsenko I, Nemanov L, Kaitz M, and Ebstein RP. HPA axis reactivity measured by changes in salivary cortisol levels in the Trier Social Stress Test (TSST) in past and never smokers: Effect of genotype. *11<sup>th</sup> annual meeting of the Israel Society for Biological Psychiatry*. Kfar Giladi, Israel, March 2007. (Published as abstract in: *Israel Journal of Psychiatry* 2007;44:Sup 1, p.14)

**Shalev I**, Levin R, Lerer E, Heled E, Cohen L, Raz Y, Hoffine D and Ebstein RP. Association between the Rey-Osterrieth complex figure task scores with catechol-O-Methyltransferase (COMT), dopamine D4 receptor (DRD4) and synaptosomal-associated protein (SNAP25). *15<sup>th</sup> annual meeting of the Israel Society for Neuroscience*. Eilat, Israel, December 2006. (Published as abstract in: *Neural Plasticity* 2006: vol 1, p.89)

**Shalev I**, Levin R, Lerer E, Heled E, Cohen L, Raz Y, Hoffine D and Ebstein RP. Association between the Rey-Osterrieth complex figure task scores with catechol-O-Methyltransferase (COMT), dopamine D4 receptor (DRD4) and synaptosomal-associated protein (SNAP25). *10<sup>th</sup> annual meeting of the Israel Society for Biological Psychiatry*. Hagoshrim, Israel, March 2006. (Published as abstract in: *Israel Journal of Psychiatry* 2006;45:Sup 1, p.14)

**Posters (Professional Meetings) (#denotes graduate or undergraduate mentee)**

Apsley AT<sup>#</sup>, **Shalev I**. Cross-Tissue Epigenetic Age Comparisons. *The Gerontological Society of America (GSA) 2024 Annual Scientific Meeting*. Seattle, WA, USA, November 2024.

Ye Q<sup>#</sup>, **Shalev I**. Causality-Informed Reproductive Clocks Reflect Impact of Childhood Maltreatment on Epigenetic Aging. *The Gerontological Society of America (GSA) 2024 Annual Scientific Meeting*. Seattle, WA, USA, November 2024.

Bhat AC, Trexberg KM, Apsley AT<sup>#</sup>, Almeida DM, **Shalev I**. Grandparent Caregiving and Epigenetic Aging among Midlife and Older Adults in the United States. *The Gerontological Society of America (GSA) 2024 Annual Scientific Meeting*. Seattle, WA, USA, November 2024

Bhat AC, Apsley AT<sup>#</sup>, Almeida DM, **Shalev I**. The Great Recession and Epigenetic Aging among Midlife and Older Adults. *The Population Association of America (PAA) annual meeting*. Columbus, OH, USA. April 2024.

Apsley AT<sup>#</sup>, Bhat AC, Almeida DM, **Shalev I**. Financial Insecurity, Immune Gene Expression, and Inflammation in Midlife and Older Adults in the United States. *The Gerontological Society of America (GSA) 2023 Annual Scientific Meeting*. Tampa, FL, USA, November 2023.

Wehrung KM, Sturgeon KM, **Shalev I**, Apsley AT<sup>#</sup>, Lin D, Schmitz K. The Effect of an Exercise and Weight Loss Intervention on Epigenetic Age Amongst Breast Cancer Survivors with Overweight or Obesity. *The Pennsylvania State University Cancer Research Day*. University Park, PA, USA, October 2023.

Etzel L<sup>#</sup>, Apsley AT<sup>#</sup>, **Shalev I**. Impact of Early Life Adversity on Gene Expression Related to Leukocyte Trafficking and Proliferation: A Cluster-Based Analysis across an Acute Stressor. *The Pennsylvania State University Research Symposium*. University Park, PA, USA. December 2022

Etzel L<sup>#</sup>, Schmid L, **Shalev I**, Garrett-Peters P. Impact of prenatal stress and psychosocial resilience on prenatal inflammation. *55th Annual Meeting of the International Society for Developmental Psychobiology (ISDP)*. San Diego CA, USA. November 2022.

Ye Q<sup>#</sup>, Apsley AT<sup>#</sup>, Hastings WJ<sup>#</sup>, Etzel L<sup>#</sup>, Wolf S<sup>#</sup>, Walker C<sup>#</sup>, Kozlosky J<sup>#</sup>, **Shalev I**. Telomere length and chronological age across the human lifespan: A systematic review and meta-analysis across 743,019 participants in 414 studies. *52<sup>nd</sup> Annual ISPNE Conference*. Chicago IL, USA, September 2022.

Hastings WJ<sup>#</sup>, Asghar M, Belsky DW, Carroll J, Hägg S, Justice J, Kiecolt-Glaser J, Lustig AJ, Pierce B, Rehkopf D, Ryan C, **Shalev I**. A Critical Appraisal of Telomeres for Studies of Human Aging. *Cold Spring Harbor Laboratory, Telomeres & Telomerase*. Virtual meeting, December 2021.

Etzel LC<sup>#</sup>, Lanza S, **Shalev I**. Intergenerational Transmission of Trauma? Testing cellular aging in mothers exposed to sexual abuse and their children. *The Gerontological Society of America (GSA) 2020 Annual Scientific Meeting*. Virtual meeting, November 2020

Etzel LC<sup>#</sup>, Lanza S, **Shalev I**. Modeling the Age-Varying Link between Smoking and Telomere Length in a Large Sample of US Adults. *48<sup>th</sup> Annual ISPNE Conference*. Irvine CA, USA, September 2018.

Hastings WJ<sup>#</sup>, Belsky D, **Shalev I**. Comparing Measures of Biological Age on Morbidity and Functional Outcomes in a Nationally Representative Sample of US Adults. *48<sup>th</sup> Annual ISPNE Conference*. Irvine CA, USA, September 2018.

Hastings WJ<sup>#</sup>, Siegel S, **Shalev I**. Early-Life Adversity is Associated with Diverse Dimensions of Cellular and Neuroendocrine Stress Responses. *33<sup>rd</sup> Annual Graduate Exhibition*. Penn State, State College, USA, March 2018.

Hastings WJ<sup>#</sup>, Siegel S, **Shalev I**. Differential CD8<sup>+</sup> response to stress is moderated by exposure to early-life adversity. *46<sup>th</sup> Annual ISPNE Conference*. Miami, USA, September 2016.

**Shalev I**, Caspi A, Moffitt TE. Perinatal Complications Predict Subjective and Objective Aging Indicators by Midlife. *44<sup>th</sup> Annual ISPNE Conference*. Montreal, Canada, August 2014.

**Shalev I**, Caspi A, Moffitt TE. Perinatal Complications Predict Subjective and Objective Aging Indicators by Midlife. *104rd Annual Meeting of the American Psychopathological Association (APPA)*, New-York, USA, March 2014.

**Shalev I**, Moffitt TE, Caspi A. Stress-related disorders and leukocyte telomere length: a prospective longitudinal study of four decades. *103rd Annual Meeting of the American Psychopathological Association (APPA)*, New-York, USA, March 2013.

**Shalev I**, Moffitt TE, Sugden K, Williams B, Houts RM, Danese A, Mill J, Arseneault L, Caspi A. Exposure to violence during childhood is associated with telomere erosion from 5 to 10 years of age: a longitudinal study. *24<sup>th</sup> Annual Convention of the Association for Psychological Science (APS)*, Chicago, USA, May 2012.

**Shalev I**, Moffitt TE, Sugden K, Williams B, Houts RM, Danese A, Mill J, Arseneault L, Caspi A. Exposure to violence during childhood is associated with telomere erosion from 5 to 10 years of age: a longitudinal study. *102nd Annual Meeting of the American Psychopathological Association (APPA)*, New-York, USA, March 2012.

**Shalev I**, Israel S, Uzefovsky F, Gritsenko I, Kaitz M, Ebstein RP. Vasopressin needs an audience: neuropeptide elicited stress responses are contingent upon perceived social evaluative threats. *The biology of prosocial behavior*, Emory University, Atlanta, USA, October 2011.

**Shalev I**, Israel S, Uzefovsky F, Gritsenko I, Kaitz M, Ebstein RP. Arginine vasopressin enhances acute stress response in social encounters. *7th World Congress on Stress*, Leiden, Netherlands, August 2010.

**Shalev I**, Israel S, Uzefovsky F, Gritsenko I, Kaitz M, Ebstein RP. Arginine vasopressin enhances acute stress response in social encounters. *The 3rd DGPA Spring School*, Dresden, Germany, March 2010.

**Shalev I**, Israel S, Uzefovsky F, Gritsenko I, Kaitz M, Ebstein RP. Intranasal administration of arginine vasopressin enhances acute stress response in social encounters. Nice, France, March 2010. (Citation: *European Neuropsychopharmacology. The Journal of the European College of Neuropsychopharmacology* Volume 20 (2010) Supplement 1, Page S54).

**Shalev I**, Meron Y, Laibe G, Lerer E, Laiba E, Raz Y, Israel S, Bachner-Melman R, Uzefovsky F, Dina C, Kaitz M and Ebstein RP. The role of BDNF Val66Met and stress response in smoking cessation in young women. *16<sup>th</sup> annual meeting of the Israel Society for Neuroscience*. Eilat, Israel, November 2007. (Published as abstract in: *Neural Plasticity* 2007, p.99).

Ebstein RP, **Shalev I**, Kaitz M, Meron Y, Uzefovsky F. The role of BDNF Val66Met and stress response in smoking cessation in young women. *15<sup>th</sup> World Congress on Psychiatric Genetics*. New York, USA, October 2007. (Published as abstract in: *WCPG* 2007, p.55).

### **Invited Workshops**

**October 2024:** Multi-omics symposium. “*Using epigenetic age clocks to investigate health outcomes*”. Penn State University, PA, USA.

**June 2024:** NIH/NIMHD- Addressing the Influence of Interpersonal Biases. Virtual

**April 2024:** NIH/NIDDK- Understanding the Biological Mechanisms Underlying the Health Consequences of Racism, Marginalization, and Discrimination. Washington DC, USA.

**April 2023:** *CALERIE Research Summit*. Scottsdale, AZ, USA.

**November 2021:** *CALERIE Research Network Workshop*. Virtual.

**August 2018:** *CALERIE Research Network Workshop: Facilitating CALERIE-Based Ancillary Studies*. Chicago, IL, USA.

**November 2017:** *Cognitive, Affective, and Social Processes in Health Research (CASPHR) Workshop on “Health Impacts of Adversity, Vulnerability and Resilience”*. National Cancer Institute, Rockville, Maryland, USA.

**September 2017:** *National Institute of Environmental Health Sciences and National Institute on Aging: Telomeres as Sentinels for Environmental Exposures, Psychosocial Stress, and Disease Susceptibility*. Research Triangle Park, NC, USA.

**November 2014:** *Diversity in Telomere Dynamics Conference*. Drymen, Scotland.

**July 2014:** *Social and Behavioral Epigenetics workshop* sponsored by the Biotechnology and Biological Sciences Research Council and the Economic and Social Science Research Council of the UK, and the US National Science Foundation and National Institutes of Health. Washington DC, USA.

#### **Invited/Guest Lectures**

**February 2025:** *Biopsychosocial Consequences of Early-Life Adversity: New Insights from the Science of Aging*. Behavioral Medicine Seminar Series, Columbia University Medical School.

**November 2024:** *Epigenetics. Human Development Across the Lifespan (HDFS 501)*. Penn State University.

**August 2024:** *Biopsychosocial Consequences of Early-Life Adversity: New Insights from the Science of Aging*. Distinguish Scholar Talk, Department of Human Development & Family Science, The Youth Development Institute, The University of Georgia.

**April 2022:** *Biopsychosocial Consequences of Early-Life Adversity: New Insights from the Science of Aging*. Keynote lecture, The Laurel Highlands Conference, Saint Francis University, Loretto, PA.

**February 2022:** *Biological Aging Clocks (BBH 597)*. Penn State University.

**January 2022:** *Biological Embedding of Early-Life Adversity: Challenges and Opportunities*. Barnard Center lecture series, University of Washington, Seattle, WA.

**October 2021:** *Orientation to the Biobehavioral Health Graduate Program- Writing for Publication (BBH 597)*. Penn State University.

**May 2021:** *Biological embedding of early life trauma*. T32 Child Maltreatment ProSem. Penn State University.

**March 2021:** *Biobehavioral Aspects of Stress* (BBH 432). Penn State University.

**October 2020:** *Orientation to the Biobehavioral Health Graduate Program- Writing for Publication* (BBH 597). Penn State University.

**April 2020:** *Intro to Child Maltreatment and Advocacy Studies* (CMAS 258). Penn State University.

**December 2019:** *Pathways T32 colloquium lecture*. Center for Healthy Aging, Penn State University.

**November 2019:** *Biobehavioral Aspects of Stress* (BBH 432). Penn State University.

**October 2019:** *Orientation to the Biobehavioral Health Graduate Program* (BBH 597). Penn State University.

**March 2019:** *Intro to Child Maltreatment and Advocacy Studies* (CMAS 258). Penn State University.

**March 2019:** *Biobehavioral Aspects of Stress* (BBH 432). Penn State University.

**October 2018:** *Intro to Child Maltreatment and Advocacy Studies* (CMAS 258). Penn State University.

**October 2018:** *Biobehavioral Aspects of Stress* (BBH 432). Penn State University.

**October 2018:** *Orientation to the Biobehavioral Health Graduate Program* (BBH 597). Penn State University.

**April 2018:** *Stress and Aging: A Lifespan Perspective*, Saint Francis University, Loretto, PA.

**October 2017:** *Intro to Child Maltreatment and Advocacy Studies* (CMAS 258). Penn State University.

**November 2016:** *Interdisciplinary Integration in Biobehavioral Health* (BBH 311). Penn State University.

**October 2016:** Healthy People Penn State Research Conference and Expo, Penn State University.

**October 2016:** *Biobehavioral Aspects of Stress* (BBH 432). Penn State University.

**February 2016:** *Interdisciplinary Integration in Biobehavioral Health* (BBH 311). Penn State University.

**October 2015:** Healthy People Penn State Research Conference and Expo, Penn State University.

**October 2015:** *Child Maltreatment and Advocacy Studies* (HDFS). Penn State University.

**October 2015:** *Noll Seminar Lecture Series, Telomeres and Aging: A Lifespan Perspective*. Penn State University.

**March 2015:** *Interdisciplinary Integration in Biobehavioral Health* (BBH 311). Penn State University.

**February 2015:** *Developmental and Health Genetics* (BBH 410). Penn State University.

**February 2015:** *ProSem in Developmental Psychology* (Psychology). Penn State University.

**January 2015:** *Scientific Basis of Exercise for Older Adults* (Kinesiology 481W). Penn State University.

**November 2014:** *The Bio-Psycho-Social-Societal Consequences of Child Maltreatment* (HDFS 597c). Penn State University.

**October 2014:** *Interdisciplinary Integration in Biobehavioral Health* (BBH 311). Penn State University.

**October 2014:** *Child Maltreatment Prevention, Intervention, and Legal Issues* (HDFS 452). Penn State University.

**October 2014:** Healthy People Penn State Research Conference and Expo, Penn State University.

**September 2014:** Special Interest Group meeting. Center for Healthy Aging, Penn State University.

**June 2014:** *Stress and telomere biology across the lifespan*. Tel-Aviv University, Israel.

**March 2014:** *Interdisciplinary Integration in Biobehavioral Health* (BBH 311). Penn State University.

**March 2014:** *Biobehavioral Aspects of Stress* (BBH 432). Penn State University.

**February 2014:** *The Bio-Psycho-Social-Societal Consequences of Child Maltreatment* (HDFS 597c). Penn State University.

**Teaching (The Pennsylvania State University, University Park, PA)**

- 2024 **BBH 210** Biobehavioral Aspects of Genetics (Fall)  
Professor (**37.5 hours**; 50 undergraduate students)
- 2024 **BBH 210** Biobehavioral Aspects of Genetics (Spring)  
Professor (**37.5 hours**; 72 undergraduate students)
- 2021 **BBH 501** Biobehavioral Systems in Health and Development: Theory and Processes  
(Fall)  
Professor (**37.5 hours**; 10 graduate students)
- 2020 **BBH 501** Biobehavioral Systems in Health and Development: Theory and Processes  
(Fall)  
Professor (**37.5 hours**; 6 graduate students)
- 2019 **BBH 432** Biobehavioral Aspects of Stress (Spring)  
Professor (**37.5 hours**; 71 undergraduate students)
- 2018 **BBH 497** Biobehavioral Aspects of Aging (Fall)  
Professor (**37.5 hours**; 13 undergraduate and graduate students)
- 2017 **BBH 432** Biobehavioral Aspects of Stress (Fall)  
Professor (**37.5 hours**; 66 undergraduate students)
- BBH 432** Biobehavioral Aspects of Stress (Spring)  
Professor (**37.5 hours**; 75 undergraduate and graduate students)
- BBH 497** Biobehavioral Aspects of Aging (Spring)  
Professor (**37.5 hours**; 23 undergraduate and graduate students)
- 2016 **BBH 432** Biobehavioral Aspects of Stress (Fall)  
Professor (**37.5 hours**; 48 undergraduate students)
- BBH 432** Biobehavioral Aspects of Stress (Spring)  
Professor (**37.5 hours**; 79 undergraduate students)
- 2015 **BBH 432** Biobehavioral Aspects of Stress (Fall)  
Professor (**37.5 hours**; 135 undergraduate students)
- BBH 432** Biobehavioral Aspects of Stress (Spring)  
Professor (**37.5 hours**; 112 undergraduate students)

2014 **BBH 432** Biobehavioral Aspects of Stress (Fall)  
Professor (**37.5 hours**; 97 undergraduate students)

**BBH 597C** Stress and Health Across the Lifespan: Stress and Cellular Aging (Fall)  
Professor (**12.5 hours**; 4 graduate students)

### International Service

2019-present: Steering Committee Member: Telomere Research Network (TRN)

### University Service

2024-2025: Search Committee Chair: Biobehavioral Health – A tenure-track Assistant Professor or early Associate Professor position for candidates using innovative wetlab methods.

2023-2024: Search Committee Member: Biobehavioral Health – Developmental Adversity and Health

2023-present: Committee Member: Biobehavioral Health Research Committee

2022-present: Steering Committee Member: Geroscience and Dementia Prevention Consortium

2021-2023: Search Committee Member: Environmental Health Sciences Program in the College of Health and Human Development

2021-2022: Search Committee Member: College of Health and Human Development  
Assistant Dean for Operations Search

2020-2021: Search Committee Chair: Biobehavioral Health – Precision Population Health

2020-2022: Committee Chair: Advancing Academics of Color – Outreach Subcommittee  
Child Maltreatment Solutions Network

2019-2020: Search Committee Member: Biobehavioral Health – Edna Bennett Pierce  
Endowed Professorship of Caring and Compassion in Adulthood and Aging

2017-2022: Committee Member: Biobehavioral Health Research Committee

2016-2019: Committee Member: Biobehavioral Health Graduate Program

2014-2015: Search Committee Member: Biobehavioral Health – Third Child Maltreatment  
Network Position

2013-2014: Search Committee Member: Biobehavioral Health – Second Child Maltreatment  
Network Position

### Postdoctoral Students Supervised

2022 - 2024	Laura Etzel- Advisor	Biobehavioral Health
2022 - 2023	Sarah Wolf- Advisor	Biobehavioral Health
2020 - 2022	Waylon Hastings- Advisor	Biobehavioral Health

### PhD Students Supervised

2024 - present	Aaliya Ahamed- Advisor	Biobehavioral Health
2023 - present	Lauren Chu- Advisor	Biobehavioral Health
2021 - present	Qiaofeng Ye- Advisor	Biobehavioral Health
2021 - present	Abner Apsley- Advisor	Molecular, Cellular, and Integrative Biosciences
2017 - 2022	Laura Etzel- Advisor	Biobehavioral Health
2015 - 2020	Waylon Hastings- Advisor	Biobehavioral Health
2016 - 2018	Rachel Koffer- Co-advisor	Health and Human Development

### **Awards Students Received**

- Waylon Hastings: 2021: National Institute on Aging Butler-Williams Scholar  
2020: NIH Telomere Research Network Data Analysis Award  
2019-2020: Biobehavioral Health Hintz Endowment Award, Penn State  
2018-2019: Biobehavioral Health Hintz Endowment Award, Penn State  
2018-2019: NIA Pathways T32 Training Program  
2016: Psychoneuroendocrinology Graduate Student Travel Award  
2015-2017: University Distinguished Graduate Fellowship, Penn State
- Laura Etzel: 2022: International Society for Developmental Psychobiology Travel Award  
2021-2022: Britton Graduate Fellowship, Center for Healthy Aging, Penn State  
2020-2021: Biobehavioral Health Hintz Endowment Award, Penn State  
2019-2020: Elizabeth J. Susman Enhancement Fund Award, Penn State  
2019-2020: NIA Pathways T32 Training Program  
2018-2019: Biobehavioral Health Graduate Student Travel Award, Penn State  
2017-2018: University Distinguished Graduate Fellowship, Penn State
- Qiaofeng Ye: 2025: Biobehavioral Health Graduate Student Scientific Achievement Award  
2024: Biobehavioral Health Enhancement Fund Award, Penn State  
2020-2021: University Distinguished Graduate Fellowship, Penn State  
2020-2021: Fund for Excellence in Graduate Recruitment, Penn State
- Abner Apsley: 2022-2023: College of Health and Human Development Interdisciplinary graduate student grant  
2021-2022: NIA Pathways T32 Training Program
- Lauren Chu: 2025: Biobehavioral Health Graduate Student Teaching Award  
2024-2025: Biobehavioral Health Hintz Endowment Award, Penn State
- Aaliya Ahamed: 2024-2025: Fund for Excellence in Graduate Recruitment, Penn State

### **Media**

**February 2025:** [Understanding aging requires more than counting birthdays | Penn State University, ScienceDaily](#)

**July 2024:** Elle Magazine: [Antiage Your Dog.pdf - Google Drive](#)

**May 2024:** [Improved nutrition, sanitation linked to beneficial changes in child stress and epigenetic programming | ScienceDaily](#)

**April 2024:** [Calorie restriction study reveals complexities in how diet impacts aging | Penn State University \(psu.edu\)](#)

[Could this diet actually help you live longer? \(nypost.com\)](#)

[Low-Calorie Diet Has Unexpected Effect on Aging - Newsweek](#)

**June 2022:** NYTimes interview- immune aging

<https://www.nytimes.com/2022/06/17/well/mind/stress-aging-immune-system.html>

**August 2020:** [Molecular stress indicator not observed in survivors of child sexual abuse](#)

**February 2019:** [Researcher to study how adversity can lead to susceptibility to disease](#)

**July 2017:** [Shalev named Mark T. Greenberg Early Career Professor](#)

**May 2017:** [Study Analysis Shows Cutting Calories Might Slow Biological Aging](#)

Change in the Rate of Biological Aging in Response to Caloric Restriction: CALERIE Biobank Analysis. *J Gerontol A Biol Sci Med Sci*. DOI: <https://doi.org/10.1093/gerona/glx096>

**August 2016:** Child Maltreatment as a Root Cause of Mortality Disparities ([editorial](#)). 2016, JAMA Psychiatry. [HealthDay](#), [Science Daily](#).

**February 2016:** Delay discounting, genetic sensitivity, and leukocyte telomere length. [Daily Mail](#), [Telegraph](#), [Yahoo News](#)

**December 2015:** The Association for Psychological Science (APS) named [Idan Shalev as a 'Rising Star'](#) in their list of outstanding international psychological scientists.

**March 2015:** NBC News- Interview on lifestyle factors and telomere length.

**November 2014:** Observer - Association for Psychological Science: [The Long and the Short of It: Chronic Stress Measured at the Cellular Level](#)

**May 2014:** Observer - Association for Psychological Science: [Eye-Tuned: Integrative science opens a new window into the mind](#)

**January 2014:** PSU ComRadio interview: New faculty member focuses on stress and its effects on aging.

**January 2014:** Penn State Daily Newswire: [New faculty member focuses on stress and its effects on aging](#)

**November 2013:** The Philadelphia Inquirer interview: The Network on Child Protection and Well-Being, The Pennsylvania State University.

**July 2013:** [WPSU Radio interview: The Network on Child Protection and Well-Being, The Pennsylvania State University](#).

**June 2013:** NBC Radio interview: Blood Vessels in the Eye Linked with IQ, Cognitive Function.

**June 2013:** APS press release: [Blood Vessels in the Eye Linked with IQ, Cognitive Function](#) <http://www.sciencedaily.com/releases/2013/06/130603135533.htm>

**December 2012:** [America Now Video - Child abuse accelerates aging process](#) (<http://www.americanownews.com/story/19033662/abused-kids>)

**July 2012:** Media panel discussant at the meeting of the American Genetic Association, Durham, NC, USA.

**May 2012:** 24<sup>th</sup> Annual Convention of the Association for Psychological Science (APS), Chicago, USA. [Convention Video Blog: Violence Exposure During Childhood Is Associated With Telomere Erosion \(http://www.youtube.com/watch?v=eGTE1BLQx8g\)](http://www.youtube.com/watch?v=eGTE1BLQx8g)

**April 2012:** Exposure to Violence during Childhood is Associated with Telomere Erosion from 5 to 10 Years of Age: A Longitudinal Study. [USA Today](#), [Science Daily](#), [WebMD](#), [LiveScience](#), [Science](#), [Time Magazine](#), [Los Angeles Times](#), [Smithsonian](#), [Der Spiegel](#), [Giornalettismo](#)

**July 2009:** TV appearance on Israel Channel 2 “[How Men and Women Cope Differently with Stress Traced to Genetic Differences](#)” (In Hebrew).  
<http://www.sciencedaily.com/releases/2009/04/090405185031.htm>