

Virginia Merrill Bloedel Hearing Research Center
Affiliate Publications July 1, 2017 - June 30, 2018
(A Compilation of Affiliate Member PubMed Search Results and "in press" Self-Reporting)
43 Affiliates with a total = 150 publications

Julie G. Arenberg (Bierer), PhD, CCC-A

DeVries, LA, and **Arenberg, JG**. (in press). Psychophysical tuning curves as a measure of electrode position in cochlear implant listeners. *J Assoc Res Otolaryngol*.

Carlyon, RP, Cosentino, S, Deeks, JM, Parkinson, WS, **Arenberg, JG**. (in press). Effect of stimulus polarity on detection thresholds in cochlear implant users: relationships with average threshold, gap detection, and rate discrimination. *J Assoc Res Otolaryngol*.

Jahn, KN, DiNino, M, and **Arenberg, JG**. (2018). Reducing Simulated Channel Interaction Reveals Differences in Phoneme Identification Benefit between Normal-hearing Children and Adults. *Ear Hear*. 2018 Jun 20. [Epub ahead of print]. PMID: 29927780.

DiNino, M, and **Arenberg, JG**. (2018). Age-Related Performance on Vowel Identification and the Spectral-temporally Modulated Ripple Test in Children with Normal Hearing and with Cochlear Implants. *Trends Hear*. 2018 Jan-Dec;22:2331216518770959. PMID: 29708065.

Arenberg, JG, Parkinson, WS, Litvak, L, Chen, C, Kreft, HA, Oxenham, AJ. (2018). A Dynamically Focusing Cochlear Implant Strategy Can Improve Vowel Identification in Noise. *Ear Hear*. 2018 Mar 9. [Epub ahead of print]. PMID: 29529006.

Zaar, J, Schmitt, N, Derleth, RP, DiNino, M, **Arenberg, JG**, Dau, T. (2017). Predicting effects of hearing-instrument signal processing on consonant perception. *J Acoust Soc Am*. 2017 Nov;142(5):3216. PMID:29195458.

Les Atlas, PhD

Mirbagheri, M, **Atlas, L**, AKC, Lee. (2018). Regression Factor Analysis with an Application to Continuous HRIR Measurement. *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, 2018 Feb. 26(2): 415-421.

Andres Barria, PhD

McQuate, A, Latorre-Esteves, E, **Barria, A**. (2017). A Wnt/Calcium Signaling Cascade Regulates Neuronal Excitability and Trafficking of NMDARs. *Cell Rep*. 2017 Oct 3;21(1):60-69. PMID: 28978484.

Olivia Bermingham-McDonogh, PhD

Bermingham-McDonogh, O. (in press). Effects of 3,3'-Iminodipropionitrile on hair cell numbers in cristae of CBA/CaJ and C57BL/6J mice. In *Journal of the Association for Research in Otolaryngology*.

Rechele Brooks, PhD

Brooks, R, Gaze, In FR, Volkmar (Ed). (in press). *Encyclopedia of autism spectrum disorders* (2nd ed.). New York, NY: Springer.

Meltzoff, AN, Murray, L, Simpson, E, Heimann, M, Nagy, E, Nadel, J, **Brooks, R**, Messinger, DS, De Pascalis, L, Subiaul, F, Paukner, A, Ferrari, PF. (in press). What constitutes a replication attempt in psychology? *Developmental Science*.

Brooks, R. (2017). Joint attention. In B. Hopkins, E. Geangu, & S. Linkenauer (Eds.), *Cambridge encyclopedia of child development* (2nd ed., pp. 464-469). Cambridge, UK: Cambridge University Press.

Meltzoff, AN, Murray, L, Simpson, E, Heimann, M, Nagy, E, Nadel, J, **Brooks, R**, Messinger, DS, De Pascalis, L, Subiaul, F, Paukner, A, Ferrari, PF. (2017). Re-examination of Oostenbroek et al. (2016) – Evidence for neonatal imitation of tongue protrusion. *Dev Sci*. 2017 Sep 27. [Epub ahead of print] PMID: 28952202.

Andrew D. Brown, PhD

Farrell, NF, Banakis Hartl, RM, Benichoux, V, **Brown, AD**, Cass, SP, Tollin, DJ. (2017). Effects of time and level difference inputs to bilaterally placed bone-conduction systems on cochlear input. *Otol. Neurotol*. 38, 1467-1483.

Anbuhl, KL, Benichoux, V, Greene, NT, **Brown, AD**, Tollin, DJ. (2017). Development of the head, pinnae, and acoustical cues to sound location in a precocial species, the guinea pig (*Cavia porcellus*). *Hear Res*. 2017 Dec;356:35-50. Epub 2017 Nov 1. PMID: 29128159.

Benichoux, V, **Brown, AD**, Anbuhl, KL, Tollin, DJ. (2017). Representation of multidimensional stimuli: Quantifying the most informative stimulus dimension from neural responses. *J Neurosci*. 2017 Aug 2;37(31):7332-7346. Epub 2017 Jun 29. PMID: 28663198.

Greg E. Davis, MD, MPH

Davis, GE, Baik, FM, Liddell, RM, Ayars, AG, Branch, KR, Pottinger, PS, Hillel, AD, Helmick, K, Collins, D. (2018). Gorilla endoscopic sinus surgery: a life-saving collaboration between human and veterinary medicine. *Int Forum Allergy Rhinol*. 2018 Mar 23. [Epub ahead of print] PMID: 29569338.

Harbison, RA, Dunlap, J, Humphreys, IM, **Davis, GE**. (2018). Skills transfer to sinus surgery via low-cost simulation-based curriculum. *International Forum of Allergy and Rhinology*. 2018 Jan 11. PMID:29323794.

Miller, C, **Davis, GE**. (2018). Are multiple sinus cultures necessary during sinus surgery for chronic rhinosinusitis? *International Forum of Allergy and Rhinology*. 2018 Jan 5 PMID:29316282.

Tanya L. Eadie, PhD, CCC-SLP

Patel, R, Awan, S, Barkmeier-Kraemer, J, Courey, M, Deliyski, D, Eadie, T, Paul, D, Svec, J, & Hillman, R. (in press). Recommended protocols for instrumental assessment of voice: American Speech-Language-Hearing Association Expert Panel to Develop a Protocol for Instrumental Assessment of Vocal Function. *American Journal of Speech-Language Pathology*.

Nagle, KF, **Eadie, TL**. (2018). Perceived listener effort as an outcome measure for disordered speech. *J Commun Disord*. 2018 Mar 13;73:34-49. [Epub ahead of print] PMID: 29567465.

Weir-Mayta, P, Spencer, KA, **Eadie, TL**, Yorkston, K, Savaglio, S, Woollcott, C. (2017). Internally versus externally cued speech in Parkinson's disease and cerebellar disease. *Am J Speech Lang Pathol*. 2017 Jun 22;26(2S):583-595. PMID: 28654941.

Ione Fine, PhD

Fine, I, Park, J. (in press). Blindness and Human Brain Plasticity. *Annual Review of Vision*.

Beyeler, M, Rokem, A, Boynton, GM, **Fine, I**. (2017). Learning to see again: biological constraints on cortical plasticity and the implications for sight restoration technologies. *J Neural Eng*. 2017 Oct;14(5):051003. Epub 2017 Jun 14. PMID: 28612755.

Chang, KH, Thomas, JM, Boynton, GM, **Fine, I**. (2017). Reconstructing Tone Sequences from Functional Magnetic Resonance Imaging Blood-Oxygen Level Dependent Responses within Human Primary Auditory Cortex. *Front Psychol*. 2017 Nov 14;8:1983. eCollection 2017. PMID: 29184522.

Rokem, A, Takemura, H, Bock, AS, Scherf, KS, Behrmann, M, Wandell, BA, **Fine, I**, Bridge, H, Pestilli, F. (2017). The visual white matter: The application of diffusion MRI and fiber tractography to vision science. *J Vis*. 2017 Feb 1;17(2):4. PMID: 28196374.

Neal D. Futran, MD, DMD

Mendez, E, Rodriguez, CP, Kao, M, Raju, SC, Diab, A, Harbinson, RA, Konnick, EQ, Mugundu, G, Santana-Davila, R, Martins, R, **Futran, ND**, Chow, LQM. (2018). A Phase I Clinical trial of AZD1775 in combination with neoadjuvant weekly docetaxel and cisplatin before definitive therapy in head and neck squamous cell carcinoma. *Clin Cancer Res*. 2018 Jun 15;24(12):2740-2748. Epub 2018 Mar 13. PMID: 29535125.

Shen, JY, **Futran, ND**, Sardesai, MG. (2017). Craniofacial *Actinomyces* osteomyelitis evolving from sinusitis. *Radiol Case Rep*. 2017 Dec 20;13(1):104-107. eCollection 2018 Feb. PMID: 29552249.

Patel, SA, Parvathaneni, A, Parvathaneni, U, Houlton, JJ, Karni, RJ, Liao, JJ, **Futran, ND**, Mendez, E. (2017). Post-Operative Therapy Following Transoral Robotic Surgery for Unknown Primary Cancers of The Head and Neck. *Oral Oncology*. 2017 Jul 19. PMID: 28797451.

Cannon, RB, Houlton, JJ, Mendez, E, **Futran, ND**. (2017). Methods to reduce postoperative surgical site infections after head and neck oncology surgery. *Lancet Oncology*. 2017 Jul 18(7):e405-e413. PMID: 28677576.

Allen D. Hillel, MD

Davis, GE, Baik, FM, Liddell, RM, Ayars, AG, Branch, KR, Pottinger, PS, **Hillel, AD**, Helmick, K, Collins, D. (2018). Gorilla endoscopic sinus surgery: a live-saving collaboration between human and veterinary medicine. *Int Forum Allergy Rhinol*. 2018 Mar 23. [Epub ahead of print] PMID: 29569338.

David L. Horn, MD

Purcell P, Edwards TC, Wisneski M, Chan DK, Ou H, **Horn DL**, Skirko JR, Sie KCY (in press). Unilateral Hearing Loss in Youth: Development of candidate items for a condition-specific validated instrument. *Otolaryngology-Head & Neck Surgery*.

Walker, B, **Horn, DL**, Rubinstein, JT. (in press). Medical Management of Pediatric Hearing Loss. Chapter in "Pediatric Audiology – Third Edition" Eds: Jane Madell & Carol Flexer. Thieme Medical Publishers.

Walker, B, Norton, S, Phillips, G, Christianson, E, **Horn, DL**, Ou, H. (2018). Comparison of MRI in pediatric cochlear implant recipients with and without retained magnet. *International Journal of Pediatric Otorhinolaryngology*;109:44-49.

Purcell, PL, Shinn, JR, Coggeshall, SS, Phillips, G, Paladin, A, Sie, KCY, **Horn, DL**. (2017). Progression of Unilateral Hearing Loss in Children With and Without Ipsilateral Cochlear Nerve Canal Stenosis: A Hazard Analysis. *Otol Neurotol*. 2017 Jul;38(6):e138-e144.

Clifford R. Hume, MD, PhD

Liu, Y, Luo, C, Cao, GZ, **Hume, CR**, Shen, IE. (2018) A Study on Long-Term In Vitro Reliability of Intracochlear Lead-Zirconate-Titanate Microactuators. *ASME J of Medical Diagnostics* 1(3), 031005 2018 May 28. Paper No: JESMDT-18-1017.

Wayne J. Katon, MD

Bauer, AM, Iles-Shih, M, Ghomi, RH, Rue, T, Grover, T, Kincler, N, Miller, M, **Katon, WJ**. (2017). Acceptability of mHealth augmentation of Collaborative Care: A mixed methods pilot study. *General Hospital Psychiatry*. 2017 Nov 24;51:22-29. PMID: 29272712.

Bauer, AM, Parker, MM, Schillinger, D, Adler, NE, Adam, AS, Schmittiel, JA, **Katon, WJ**, Karter, AJ. (2017). Depressive Symptoms and Adherence to Cardiometabolic Therapies Across Phases of Treatment Among Adults With Diabetes: The Diabetes Study of Northern California (DISTANCE). *Patient Prefer Adherence*. 2017 Mar 24;11:643-652. eCollection 2017. PMID: 28392679.

Mary-Claire King, PhD

Shirts, BH, Konnick, EQ, Upham, S, Walsh, T, Ranola, JMO, Jacobson, AL, **King, MC**, Pearlman, R, Hampel, H, Pritchard, CC. (2018). Using Somatic Mutations from Tumors to Classify Variants in Mismatch Repair Genes. *Am J Hum Genet*. 2018 May 31. [Epub ahead of print] PMID: 29887214.

Langer, Y, Aran, A, Gulsuner, S, Abu Libdeh, B, Renbaum, P, Brunetti, D, Teixeira, PF, Walsh, T, Zeligson, S, Ruotolo, R, Beerli, R, Dweikat, I, Shahrour, M, Weinberg-Shukron, A, Zahdeh, F, Baruffini, E, Glaser, E, **King, MC**, Levy-Lahad, E, Zeviani, M, Segel, R. (2018). Mitochondrial PITRM1 peptidase loss-of-function in childhood cerebellar atrophy. *J Med Genet*. 2018 May 15. [Epub ahead of print] PMID: 29764912.

Seo, A, Steinberg-Shemer, O, Unal, S, Casadei, S, Walsh, T, Gumruk, F, Shalev, S, Shimamura, A, Akarsu, NA, Tamary, H, **King, MC**. (2018). Mechanism for survival of homozygous nonsense mutations in the tumor suppressor gene BRCA1. *Proceedings of the National Academy of Sciences USA*. 2018 May 15;115(20):5241-5246. Epub 2018 Apr 30. PMID: 29712865.

King, MC, Walsh, T. (2018). Testing Ashkenazi Jewish Women for Mutations Predisposing to Breast Cancer in Genes Other Than BRCA1 and BRCA2-Reply. *JAMA Oncol*. 2018 May 3. [Epub ahead of print] No abstract available. PMID: 29800948.

Tillman, BG, Gorman, JD, Hru, JM, Lee, MH, **King, MC**, Sirlin, CB, Marks, RM. (2018). Diagnostic per-lesion performance of a simulated gadoxetate disodium-enhanced abbreviated MRI protocol for hepatocellular carcinoma screening. *Clin Radiol*. 2018 May;73(5):485-493. Epub 2017 Dec 12. PMID: 29246586.

Leland, BA, Chen, AC, Zhao, AY, Wharton, RC, **King, MC**. (2018). Rev7 and 53BP1/Crb2 prevent RecQ helicase-dependent hyper-resection of DNA double-strand breaks. *Elife*. 2018 Apr 26;7. [Epub ahead of print] PMID:29697047.

Norquist, BM, Brady, MF, Harrell, MI, Walsh, T, Lee, MK, Gulsuner, S, Bernards, SS, Casadei, S, Burger, RA, Tewari, KS, Backes, F, Mannel, RS, Glaser, G, Bailey, C, Rubin, S, Soper, J, Lankes, HA, Ramirez, NC, **King, MC**, Birrer, MJ, Swisher, EM. (2018). Mutations in Homologous Recombination Genes and Outcomes in Ovarian Carcinoma Patients in GOG 218: An NRG Oncology/Gynecologic Oncology Group Study. *Clin Cancer Res*. 2018 Feb 15; 24(4):777-783. Epub 2017 Nov 30. PMID:29191972.

Pierce, SB, Stewart, MD, Gulsuner, S, Walsh, T, Dhall, A, McClellan, JM, Klevit, RE, **King, MC**. (2018). De novo mutation in RING1 with epigenetic effects on neurodevelopment. *Proc Natl Acad Sci USA*. 2018 Feb 13; 115(7): 1558-1563. Epub 2018 Jan 31. PMID: 29386386.

Stewart, MD, Zelin, E, Dhall, A, Walsh, T, Upadhyay, E, Corn, JE, Chatterjee, C, **King, MC**, Klevit, RE. (2018). BARD1 is necessary for ubiquitylation of nucleosomal histone H2A and for transcriptional regulation of estrogen metabolism genes. *Proc Natl Acad Sci USA*. 2018 Feb 6; 115(6): 1316-1321. Epub 2018 Jan 24. PMID: 29367421.

Baxter, SK, **King, MC**. (2017). A Time Sequence. *JAMA Pediatr*. 2017 Dec 4; 171(12):e173435. Epub 2017 Dec 4. PMID: 28973099.

Walsh, T, Mandell, JB, Norquist, BM, Casadei, S, Gulsuner, S, Lee, MK, **King, MC**. (2017). Genetic Predisposition to Breast Cancer Due to Mutations Other Than BRCA1 and BRCA2 Founder Alleles Among Ashkenazi Jewish Women. *JAMA Oncol*. 2017 Dec 1;3(12):1647-1653. PMID: 28727877.

Yan, H, Johnston, JF, Cahn, SB, **King, MC**, Mochrie, SGJ. (2017). Multiplexed fluctuation-dissipation-theorem calibration of optical tweezers inside living cells. *Rev Sci Instrum*. 2017 Nov;88(11):113112. PMID: 29195389.

McClellan, JM, Lehner, T, **King, MC**. (2017). Gene Discovery for Complex Trait: Lessons from Africa. *Cell*. 2017 Oct 5; 171(2): 261-264. PMID: 28985555.

Greidier, C, Hopkins, N, Steitz, J, Amon, A, Asai, D, Barres, B, Bass, B, Bassier, B, Birgeneau, R, Bjorkman, P, Botchan, M, Brugge, J, Cech, T, Colwell, R, Craig, N, deLange, T, Eisen, M, Gottesman, S, Green, R, Handelsman, J, Kimble, J, **King, MC**, Lehmann, R, Marder, E, Mullins, D, O'Shea, E, Schmid, S, Seydoux, G, Spradling, A, Storz, G, Szostak, J, Telesnitsky, Am, Tilghman, S, Tjian, R, Vale, R, Wolberger, C, Zakian, V. (2017). Not just Salk. *Science*. 2017 Sep 15;357(6356): 1105-1106. PMID: 28912235.

Patricia K. Kuhl, PhD

Lytle, SR, García-Sierra, A, **Kuhl, PK**. (in press). Two are better than one: Infant language learning from video improves in the presence of peers. *Proceedings of the National Academy of Sciences*.

Zhao, TC, **Kuhl, PK**. (in press). Linguistic effect on speech perception observed at the brainstem. *Proceedings of the National Academy of Sciences USA*.

Lin, JL, Imada, T, **Kuhl, PK**, Lin, FH. (2018). Incongruent pitch cues are associated with increased activation and functional connectivity in the frontal areas. *Sci Rep*. 2018 Mar 26;8(1):5206. PMID: 29581445.

Mamiya, PC, Richards, TL, **Kuhl, PK**. (2018). Right Forceps Minor and Anterior Thalamic Radiation Predict Executive Function Skills in Young Bilingual Adults. *Front Psychol*. 2018 Feb 9;9:118. eCollection 2018. PMID: 29479331.

Zhao, TC, Lam, HTG, Sohi, H, **Kuhl, PK**. (2017). Neural Processing of Musical Meter in Musicians and Non-musicians. *Neuropsychologia*. 2017 Nov;106:289-297. Epub 2017 Oct 4. PMID: 28987905.

Ferjan Ramirez, N, **Kuhl, PK**. (2017). Bilingual baby: Foreign language intervention in Madrid's Infant Education Centers. *Mind, Brain, and Education*, 2017 July 17;11:133–143. Retrieved from <https://bernardvanleer.org/ecm-article/2017/big-surprises-little-brains/>.

Kuhl, PK. (2017). Big surprises from little brains. *Early Childhood Matters*, Bernard van Leer Foundation. 2017;126:20–25.

Lytle, S. R., Kuhl **PK**. (2017). Social interaction and language acquisition: Toward a neurobiological view. In E. M. Fernández & H. S. Cairns (Eds.), *The Handbook of Psycholinguistics*, 1st Edition (pp. 615–634). Hoboken, NJ: Wiley.

Adrian KC Lee, ScD

Maddox, RK, **Lee, AKC**. (2018). Auditory brainstem responses to continuous natural speech in human listeners. *eNeuro*. 2018 Feb 9;5(1). eCollection 2018 Jan-Feb. PMID: 29435487.

Atilgan, H, Town, SM, Wood, KC, Jones, GP, Maddox, RK, **Lee, AKC**, Bizley, JK. (2018). Integration of visual information in auditory cortex promotes auditory scene analysis through multisensory binding. *Neuron*. 2018 Feb 7;97(3):640-655.e4. Epub 2018 Jan 26. PMID: 29395914.

Mirbagheri, M, Atlas, L, **AKC, Lee**. (2018). Regression Factor Analysis with an Application to Continuous HRIR Measurement. *IEEE/ACM Transactions on Audio, Speech, and Language Processing*, 2018 Feb. 26(2): 415-421.

Kenneth R. Maravilla, MD, PhD

Maravilla, KR, San-Juan, D, Kim, SJ, Elizondo-Riojas, G, Fink, JR, Escobar, W, Bag, A, Roberts, DR, Hao, J, Pitrou, C, Tsiouris, AJ, Herskovits, E, Fiebach, JB. (2017). Comparison of gadoterate meglumine and gabobutrol in the MRI diagnosis of primary brain tumors: a double-blind randomized controlled intraindividual crossover study (the REMIND study). *AJNR Am J Neurodiol.* 2017 Sep; 38(9): 1681-1688. PMID: 28663267.

Costa-Mallen, P, Gatenby, C, **Maravilla, KR**, Hu, SC, Cain, KC, Agarwal, P, Anzai, Y. (2017). Brain iron concentrations in regions of interest and relation with serum iron levels in Parkinson disease. *J Neurol Sci.* 2017 Jul 15;378:38-44. PMID: 28566175.

Andrew N. Meltzoff, PhD

Wang, Z, Williamson, RA, **Meltzoff, AN**. (2018). Preschool physics: using the invisible property of weight in causal reasoning tasks. *PLoS One.* 2018 Mar 21;13(3):e0192054. eCollection 2018. PMID: 29561840.

Rosen, ML, Sheridan, MA, Sambrook, KA, **Meltzoff, AN**, McLaughlin, KA. (2018). Socioeconomic disparities in academic achievement: a multi-modal investigation of neural mechanisms in children and adolescents. *Neuroimage.* 2018 Jun;173:298-310. Epub 2018 Feb 25. PMID: 29486324.

Meltzoff, AN, Murray, L, Simpson, E, Heimann, M, Nagy, E, Nadel, J, Brooks, R, Messinger, DS, De Pascalis, L, Subiaul, F, Paukner, A, Ferrari, PF. (2017). Re-examination of Oostenbroek et al. (2016) – Evidence for neonatal imitation of tongue protrusion. *Dev Sci.* 2017 Sep 27. [Epub ahead of print] PMID: 28952202.

Albert L. Merati, MD

Francis, DO, **Merati, AL**. (2017). Dexamethasone without antibiotics for sore throat. *JAMA.* 2017 Aug 22; 318(8):753. PMID: 28829865.

Tanya K. Meyer, MD

Dennis, JE, Bernardi, KG, Kean, TJ, Liou, NE, **Meyer, TK**. (2018). Tissue engineering of a composite trachea construct using autologous rabbit chondrocytes. *J Tissue Eng Regen Med.* 2018 Mar;12(3):e1383-e1391. PMID: 28719734.

Yoo, MJ, Joffe, AM, **Meyer, TK**. (2018). Tubeless Total Intravenous Anesthesia Spontaneous Ventilation for Adult Suspension Microlaryngoscopy. *Ann Otol Rhinol Laryngol.* 2018 Jan;127(1):39-45. PMID: 29171300.

Kaibao Nie, PhD

Phillips, JO, Ling, L, Nowack, AL, Phillips, CM, **Nie, K**, Rubinstein, JT. (2018). The Dynamics of Prosthetically Elicited Vestibulo-Ocular Reflex Function Across Frequency and Context in the Rhesus Monkey. *Front Neurosci.* 2018 May 15;12:88. eCollection 2018. PMID: 29867306.

William Stafford Noble, PhD

Bunnik, EM, Cook, KB, Varoquaux, N, Batugedara, G, Prudhomme, J, Cort, A, Shi L, Andolina, C, Ross, LS, Brady, D, Fidock, DA, Nosten, F, Tewari, R, Sinnis, P, Ay, F, Vert, JP, **Noble, WS**, Le Roch, KG. (2018). Changes in genome organization of parasite-specific gene families during the Plasmodium transmission stages. *Nat Commun.* 2018 May 15;9(1):1910. PMID: 29765020.

Bonora, G, Deng, X, Fang, H, Ramani, V, Qiu, R, Berletch, JB, Filippova, GN, Duan, Z, Shendure, J, **Noble, WS**, Disteche, CM. (2018). Orientation-dependent Dxx4 contacts shape the 3D structure of the inactive X chromosome. *Nat Commun.* 2018 Apr 13;9(1):1445. PMID: 29654302.

Durham, TJ, Libbrecht, MW, Howbert, JJ, Bilmes, J, **Noble, WS**. (2018). PREDICTD PaRallel Epigenomics Data Imputation with Cloud-based Tensor Decomposition. *Nat Commun.* 2018 Apr 11;9(1):1402. PMID: 29643364.

Libbrecht, MW, Bilmes, JA, **Noble, WS**. (2018). Choosing non-redundant representative subsets of protein sequence data sets using submodular optimization. *Proteins.* 2018 Apr;86(4):454-466. PMID: 29345009.

Ursu, O, Boley, N, Taranova, M, Wang, YXR, Yardimci, GG, **Noble, WS**, Kundaje, A. (2018). GenomeDISCO: a concordance score for chromosome conformation capture experiments using random walks on contact map graphs. *Bioinformatics.* 2018 Mar 15. PMID: 29554289.

Ma, W, Ay, F, Lee, C, Gulsoy, G, Deng, X, Cook, S, Hesson, J, Cavanaugh, C, Ware, CB, Krumm, A, Shendure, J, Blau, CA, Distech, CM, **Noble, WS**, Duan, Z. (2018). Using DNase hi-c techniques to map global and local three-dimensional genome architecture at high resolution. *Methods*. 2018 Jan 31. PMID: 29382556.

Lesley B. Olswang, PhD

Feuerstein, JL, **Olswang, LB**, Greenslade, KJ, Dowden, P, Pinder, GL, Madden, J. (2018). Implementation research: embracing practitioners' views. *J Speech Lang Hear Res*. 2018 Mar 15;61(3):645-657. PMID: 29450583.

Dave, S, Mastergeorge, AM, **Olswang, LB**. (2018). Motherese, affect, and vocabulary development: dyadic communicative interactions in infants and toddlers. *J Child Lang*. 2018 Feb 19:1-22. PMID: 29457574.

David J. Perkel, PhD

Vaaga, CE, Miller, KE, Bodor, AL, **Perkel, DJ**. (2018). Expression of the potassium chloride co-transporter, KCC2, within the avian song system. *J Comp Neurol*. 2018 Apr 15;526(6):944-956. PMID: 29218745.

James O. Phillips, PhD

Phillips, JO, Ling, L, Nowack, AL, Phillips, CM, Nie, K, Rubinstein, JT. (2018). The Dynamics of Prosthetically Elicited Vestibulo-Ocular Reflex Function Across Frequency and Context in the Rhesus Monkey. *Front Neurosci*. 2018 May 15;12:88. eCollection 2018. PMID: 29867306.

Kelly, JP, **Phillips, JO**, Weiss, AH. (2018). Does eye velocity due to infantile nystagmus deprive visual activity development? *J AAPOS*. 2018 Feb;22(1):50-55.e1. PMID: 29288837.

Kelly, JP, Baran, F, **Phillips, JO**, Weiss, AH. (2017). Optical coherence tomography in optic nerve hypoplasia: correlation with optic disc diameter, nerve fiber layer thickness, and visual function. *J Neuroophthalmol*. 2017 Dec 15. PMID: 29252690.

Rémy Pujol, PhD

Wise, AK, **Pujol, R**, Landry, TG, Fallon, JB, Shepherd, RK. (2017). Structural and Ultrastructural Changes to Type I Spiral Ganglion Neurons and Schwann Cells in the Deafened Guinea Pig Cochlea. *J Assoc Res Otolaryngol*. 2017 Dec;18(6):751-769. PMID: 28717876.

David W. Raible, PhD

Chowdhury, S, Owens, KN, Herr, RJ, Jiang, Q, Chen, X, Johnson, G, Groppi, VE, **Raible, DW**, Rubel, EW, Simon, JA. (2018). Phenotypic optimization of urea-thiophene carboxamides to yield potent well tolerated and orally active protective agents against aminoglycoside-induced hearing loss. *J Med Chem*. 2018 Jan 11;61(1):84-97. PMID: 28992413.

Gau, P, Curtright, A, Condon, L, **Raible, DW**, Dhaka, A. (2017). An ancient neurotrophin receptor code; a single Runx/Cbfb complex determines somatosensory neuron fate specification in zebrafish. *PLoS Genet*. 2017 Jul 14; 13(7):e1006884. PMID: 2870882.

Thomas A. Reh, PhD

Reh TA, Hindges, R. (2018). MicroRNAs in Retinal Development. *Annu Rev Vis Sci*. 2018 Jun 11. [Epub ahead of print] PMID: 29889656.

Zhang, C, Yu, WQ, Hoshino, A, Hurang, J, Rieke, F, **Reh, TA**, Wong, ROL. (2018). Development of on and off cholinergic amacrine cells in the human fetal retina. *J Comp Neurol*. 2018 Feb 6. PMID: 29405294.

Hoshino, A, Ratnapriya, R, Brooks, MJ, Chaitankar, V, Wilken, MS, Zhang, C, Starostilk, MR, Gieser, L, La Torre, A, Nishio, M, Bates, O, Walton, A, Bermingham-McDonogh, O, Glass, IA, Wong, ROL, Swaroop, A, **Reh, TA**. (2017). Molecular anatomy of the developing human retina. *Dev cell*. 2017 Dec 18;43(6):763-779.e4. PMID: 29233477.

Wohl, SG, Jorstad, NL, Levine, EM, **Reh, TA**. (2017). Muller glial cell microRNAs are required for the maintenance of glial homeostasis and retinal architecture. *Nat. Commun*. 2017 Nov 17;8(1):1603. PMID: 29150673.

Nakamura, PA, Shimchuk, AA, Tang, S, Wang, Z, DeGolier, K, Ding, S, **Reh, TA**. (2017). Small molecule photoregulin3 prevents retinal degeneration in the RhoP23H mouse model of retinitis pigmentosa. *Elife*. 2017 Nov 17;6. PMID: 29148976.

Jorstad, NL, Wilken, MS, Grimes, WN, Wohl, SG, VandenBosch, LS, Yoshimatsu, T, Wong, RO, Rieke, F, **Reh, TA**. (2017). Stimulation of functional neuronal regeneration from muller glia in adult mice. *Nature*. 2017 Aug 3;548(7665):103-107. PMID: 28746305.

Todd L. Richards, PhD

Mamiya, PC, **Richards, TL**, Kuhl, PK. (2018). Right forceps minor and anterior thalamic radiation predict executive function skills in young bilingual adults. *Front Psychol*. 2018 Feb 9;9:118. PMID: 29479331.

Richards, TL, Berninger, VW, Yagle, K, Abbott, RD, Peterson, D. (2018). Brain's functional network clustering coefficient changes in response to instruction (RTI) in students with and without reading disabilities: Multi-leveled reading brain's RTI. *Cogent Psychol*. 2018;5. Epub 2018 Jan 9. PMID: 29610767.

Berninger, VW, **Richards, TL**, Abbott, RD. (2017). Brain and behavioral assessment of executive functions for self-regulating levels of language in reading brain. *J Nat Sci*. 2017 Nov;3(11). PMID: 29104390.

Elkins, RL, **Richards, TL**, Neisen, R, Repass, R, Stahlbrandt, H, Hoffman, HG. (2017). The neurobiological mechanism of chemical aversion (emetic) therapy for alcohol use disorder: an fMRI Study. *Front Behav Neurosci*. 2017 Sep 28;11:182. PMID: 29033802.

Wallis, P, **Richards, T**, Boord, P, Abbott, R, Berninger, V. (2017). Relationships between Translation and Transcription Processes during fMRI Connectivity Scanning and Coded Translation and Transcription in Writing Products after Scanning in Children with and without Transcription Disabilities, *Creative Education*, 2017, Apr 8(5):716-748. PMID: 29600113.

Richards, TL, Abbott, RD, Yagle, K, Peterson, D, Raskind, W, Berninger, VW. (2017). Self-government of complex reading and writing brains informed by cingulo-opercular network for adaptive control and working memory components for language learning, *J Syst Integr Neurosci* 2017 Jul 31; 3: PMID: 29576874.

Richards, T, Pettet, M, Askren, M, Mestre, Z, Grabowski, T, Yagle, K, Wallis, P, Northey, M, Abbott, R, Berninger, V. (2017). ERPs While Judging Meaningfulness of Sentences With and Without Homonym or Morpheme Spelling Foils: Comparing 4th to 9th Graders With and Without Spelling Disabilities. *Dev Neuropsychol*. 2017;42(4):284-297. Epub 2017 Jun 28. PMID: 28657362.

Yagle, K, **Richards, T**, Askren, K, Mestre, Z, Beers, S, Abbott, R, Nagy, W, Boord, P, Berninger, V. (2017). Relationships between Eye Movements during Sentence Reading Comprehension, Word Spelling and Reading, and DTI and fmri Connectivity in Students with and without Dysgraphia or Dyslexia, *J Syst Integr Neurosci*. 2017 Jan;3(1). Epub 2017 Jan 18. PMID:28936361.

Robert C. Rostomily, MD

Mikheev, AM, Mikheeva, SA, Tokita, M, Severs, LJ, **Rostomily, RC**. (2017). Twist1 mediated regulation of glioms tumorigenicity is dependent on mode of mouse neural progenitor transformation. *Oncotarget*. 2017 Nov 21;8(64):107716-107729. eCollection 2017. PMID: 29296200.

Brito da Silva, H, Straus, D, Barber, JK, **Rostomily, RC**, Ferreira, M Jr, Sekhar, LN. (2017). Cranial chordoma: a new preoperative grading system. *Neurosurgery*. 2017 Nov 3. PMID: 29126120.

Edwin W Rubel, PhD

Bhandiwad, AA, Raible, DW, **Rubel, EW**, Sisnero, JA. (in press). Noise-induced hypersensitization of the acoustic startle response in larval zebrafish, *Journal of the Association for Research in Otolaryngology*.

Zorio, DAR, Monsma, S, Sanes, DH, Golding, NL, **Rubel, EW**, Wang, Y. (2018). De novo sequencing and initial annotation of the Mongolian gerbil (*Meriones unguiculatus* genome). *Genomics*. 2018 Mar 8. PMID: 29526484.

Chowdhury, S, Owens, KN, Herr, RJ, Jiang, Q, Chen, X, Johnson, G, Groppi, VE, Rabile, DW, **Rubel, EW**, Simon, JA. (2018). Phenotypic optimization of urea-thiophene carboxamides to yield potent, well tolerated, and orally active protective agents against aminoglycoside-induced hearing loss. *J Med Chem*. 2018 Jan 11;61(1):84-97. PMID: 28992413.

Sakano, H, Zorio, DAR, Wang, X, Ting, YS, Noble, WA, MacCoss, MJ, **Rubel, EW**, Wang, Y. (2017). Proteomic analyses of nucleus laminaris identified candidate targets of the fragile X mental retardation protein. *K Comp Neurol*. 2017 Oct 15;525(15):3341-3359. PMID: 28685837.

Jay T. Rubinstein, MD, PhD

Phillips, JO, Ling, L, Nowack, AL, Phillips, CM, Nie, K, **Rubinstein, JT**. (2018). The Dynamics of Prosthethically Elicited Vestibulo-Ocular Reflex Function Across Frequency and Context in the Rhesus Monkey. *Front Neurosci*. 2018 May 15;12:88. eCollection 2018. PMID: 29867306.

Resnick, JM, O'Brien, GE, **Rubinstein, JT**. (2018). Simulated auditory nerve axon demyelination alters sensitivity and response timing to extracellular stimulation. *Hear Res*. 2018 Apr;361:121-137. PMID: 29496363.

Noah Seixas, PhD

Seixas, N. (2018). *Annals of Work Exposures and Health Performance*. 2018 Mar 12;62(3):257-258. *Annals of Work Exposures and Health Performance*, 2017. PMID: 29481603.

Roberts, B, **Seixas, NS**, Mukherjee, B, Neitzel, RL. (2018). Evaluating the risk of noise-induced hearing loss using different noise measurement criteria. *Ann Work Expo Health*. 2018 Mar 12;62(3):295-306. PMID: 29415217.

Riley, EA, Carpenter, EE, Ramsay, J, Zamzow, E, Pyke, C, Paulsen, MH, Sheppard, L, Spear, TM, **Seixas, NS**, Stephenson, DJ, Simpson, CD. (2018). Evaluation of 1-nitropyrene as a surrogate measure for diesel exhaust. *Ann Work Expo Health*. 2018 Mar 12;62(3):339-350. PMID: 29300809.

Curtis, HM, Meischke, H, Stover, B, Simcox, NJ, **Seixas, NS**. (2018). Gendered safety and health risks in the construction trades. *Ann Work Expo Health*. 2018 Feb 17. PMID: 29471382.

Seixas, NS. (2017) When does race matter? *Ann Work Expo Health*. 2017 Nov 10;61(9):1035-1036. PMID: 29136421.

Michael, KE, No, D, Daniell, WE, **Seixas, NS**, Roberts, MC. (2017). Assessment of environmental contamination with pathogenic bacteria at a hospital laundry facility. *Ann Work Expo Health*. 2017 Nov 10;61(9): 1087-1096. PMID: 29136420.

Sack, CS, Doney, BC, Podolanczuk, AJ, Hooper, LG, **Seixas, NS**, Hoffman, EA, Kawut, SM, Vedal, S, Raghu, G, Barr, RG, Lederer, DJ, Kaufman, JD. (2017). Occupational exposures and subclinical interstitial lung disease. The MESA (Multi-ethnic study of atherosclerosis) air and lung studies. *Am J Respir Crit Care Med*. 2017 Oct 15;196(8):1031-1039. PMID: 28753039.

Eric T. Shea-Brown, PhD

Choi, H, Pauspathy, A, **Shea-Brown, E**. (2018). Predictive coding in area V4: dynamic shape discrimination under partial occlusion. *Neural Comput*. 2018 Mar 22;1-49. PMID: 29566355.

Ocker, GK, Hu, Y, Buice, MA, Doiron, B, Josic, K, Rosenbaum, R, **Shea-Brown, E**. (2017). From the statistics of connectivity to the statistics of spike times in neuronal networks. *Curr Opin Neurobiol*. 2017 Oct; 46: 109-119. PMID: 28863386

Fyall, AM, El-Shamayleh, Y, Choi, H, **Shea-Brown, E**, Pasupathy, A. (2017). Dynamic representation of partially occluded objects in primate prefrontal and visual cortex. *Elife*. 2017 Sep 19;6. PMID: 28925354

Ocker, GK, Josic, K, **Shea-Brown, E**, Buice, MA. (2017). Linking structure and activity in nonlinear spiking networks. *PLoS Comput Biol*. 2017 Jun 23;13(6): e1005583. eCollection 2017 Jun. PMID: 28644840

Kathleen Sie, MD

Patrick, DL, Edwards, TC, Kushalnagar, P, Topolski, T, Schick, B, Skalicky, A, **Sie K**. (2018). Caregiver-Reported Indicators of Communication and Social Functioning for Young Children Who Are Deaf or Hard of Hearing. *J Deaf Stud Deaf Educ*. 2018 Jul 1;23(3):200-208. PMID: 29635427.

Joseph A. Sisneros, PhD

Bhandiwad, AA, Raible, DW, Rubel, EW, **Sisneros, JA**. (in press). Noise-induced hypersensitization of the acoustic startle response in larval zebrafish. *Journal of the Association for Research in Otolaryngology*.

Mohr, RA, Chang, Y, Bhandiwad, AA, Porlano, PM, **Sisneros, JA**. (2018). Brain activation patterns in response to conspecific and heterospecific social acoustic signals in female plainfin midshipman fish, *porichthys notatus*. *Brain Behav Evol*. 2018 Mar 29;91(1): 33-44. PMID: 29597197.

Bose, A, Cogliati, KM, Luymes, N, Bass, AH, Marchaterre, MA, **Sisneros, JA**, Bolker, B, Balshine, S. (2018). Phenotypic traits and resource quality as factors affecting male reproductive success in a toadfish. *Behavioral Ecology*. 2018. 29:496-507.

Mohr, RA, Whitchurch, EA, Anderson, RD, Forlano, PM, Fay, RR, Ketten, DR, Cox, TC, **Sisneros, JA**. (2017). Intra- and Intersexual swim bladder dimorphisms in the plainfin midshipman (*Porichthys notatus*): implications of swim bladder proximity to the inner ear for sound pressure detection. *Journal of Morphology*. 2017 Nov;278(11):1458-1468. Epub 2017 Jul 10. PMID:28691340.

Forlano, PM, Licorish, RR, Ghahramani, ZN, Timothy, M, Ferrari, M, Palmer, WC, **Sisneros, JA**. (2017). Attention and motivated response to simulated male advertisement call activates female forebrain dopaminergic and social decision-making network nuclei in female midshipman fish. *Integrative and Comparative Biology*. 2017 Oct 1;57(4):820-834. PMID: 28992072.

Jennifer S. Stone, PhD

Lewis, RM, Keller, JJ, Wan, L, **Stone, JS**. (2018). Bone morphogenetic protein 4 antagonizes hair cell regeneration in the avian auditory epithelium. *Hear Res*. 2018 Jul;364:1-11. Epub 2018 May 2. PMID: 29754876.

Stone, JS, Wisner, SR, Bucks, SA, Mellado Lagarde, MM, Cox, BC. (2018). Characterization of Adult Vestibular Organs in 11 CreER Mouse Lines. *J Assoc Res Otolaryngol*. 2018 Jun 4. [Epub ahead of print] PMID: 29869046.

Scheibinger, M, Ellwanger, DC, Eduardo Corrales, C, **Stone, JS**, Heller, S. (2018). Correction to: aminoglycoside damage and hair cell regeneration in the chicken utricle. *J Assoc Res Otolaryngol*. 2018 Feb; 19(1):31. PMID: 29299694.

Massoodnia, R, Cox, BC, **Pujol, R**, Warchol, M, Stone, J. (2018). Postnatal development of vestibular nerve afferents and hair cells in mouse utricles. Association for Research in Otolaryngology MidWinter Meeting, 2018 Feb, San Diego, CA.

Kelly L. Tremblay, PhD, CCC-A

Wu, YH, Dumanch, K, Stangl, E, Miller, C, **Tremblay, K**, Bentler, R. (2017). Is the device-oriented subjective outcome (DOSO) independent of personality? *J Am Acad Audiol*. 2017 Nov/Dec;28(10):932-940. PMID: 29130441.

Tremblay, K. (2017). Healthcare @ the speed of thought: A digital world needs successful transformative leaders. *Healthc Manage Forum*. 2017 Sep;30(5):246-251. PMID: 28929847.

Tremblay, K. (2017). In conversation with mark hundert. *Healthc Q*. 2017;20(2):14-17. No abstract available. PMID: 28829847.

Miller, CW, Stewart, EK, Wu, YH, Bishop, C, Bentler, RA, **Tremblay, K**. (2017). Working memory and speech recognition in noise under ecologically relevant listening conditions: Effects of visual cues and noise type among adults with hearing loss. *J Speech Lang Hear Res*. 2017 Aug 16; 60(8):2310-2320. PMID: 28744550.

Edward M. Weaver, MD, MPH

Jara, SM, Hopp, ML, **Weaver, EM**. (2018). Association of Continuous Positive Airway Pressure Treatment With Sexual Quality of Life in Patients With Sleep Apnea: Follow-up Study of a Randomized Clinical Trial. *JAMA Otolaryngol Head Neck Surg*. 2018 May 24. [Epub ahead of print] PMID: 29800001.

Thilen, SR, Woersching, AL, Cornea, AM, Lowy, E, **Weaver, EM**, Treggiari, MM. (2018). Surgical specialty and preoperative medical consultation based on commercial health insurance claims. *Perioper Med (Lond)*. 2018 May 4;7:9. eCollection 2018. PMID: 29755736.

Jara, SM, **Weaver, EM**. (2018). Association of palatine tonsil size and obstructive sleep apnea in adults. *Laryngoscope*. 2018 Apr;128(4):1002-1006. PMID: 29205391.

Kirkham, EM, Hatsukami, TS, Heckbert, SR, Sun, J, Canton, G, Yuan, C, **Weaver, EM**. (2017). Association between snoring and high-risk carotid plaque features. *Otolaryngol Head Neck Surg*. 2017 Aug;157(2):336-344. PMID: 28695757.

Lynne A. Werner, PhD

Oster, MM, **Werner, LA**. (2017). The Influence of Target and Masker Characteristics on Infants' and Adults' Detection of Speech. *J Speech Lang Hear Res*. 2017 Dec 20;60(12):3625-3631. PMID: 29192318.

Mark E. Whipple, MD

Aghdasi, N, Bly, RA, Humphrey, IM, **Whipple, ME**, Moe, KM, Hannaford, B. (2018). Automated surgical approach planning for complex skull base targets: development and validation of a cost function and semantic atlas. *Surgical Innovation*. 2018 Jun 27. Retrieved from <https://doi.org/10.1177/1553350618782287>.

Li, Y, Bly, RA, Harbison, RA, Humphreys, IM, **Whipple, ME**, Hannaford, B, Moe, KS. (2017). Anatomical Region Segmentation for Objective Surgical Skill Assessment with Operating Room Motion Data. *J Neurol Surg B Skull Base*. 2017 Dec;78(6):490-496. Epub 2017 Jul 31. PMID: 29134168.

Wu, S, Law A, **Whipple, ME**. (2017). A Bayesian Network Model of Head and Neck Squamous Cell Carcinoma Incorporating Gene Expression Profiles. *Stud Health Technol Inform*. 2017. 245:634-638. PMID: 29295173.

Rachel O. Wong, PhD

Gamlin, CR, Yu, WQ, **Wong, ROL**, Hoon, M. (2018). Assembly and maintenance of GABAergic and Glycinergic circuits in the mammalian nervous system. *Neural Dev*. 2018 Jun 7;13(1):12. Review. PMID: 29875009.

Kerov, V, Laird, JG, Joiner, ML, Knecht, S, Soh, D, Hagen, J, Gardner, SH, Gutierrez, W, Yoshimatsu, T, Bhattarai, S, Puthussery, T, Artemyev, NO, Drack, AV, **Wong, RO**, Baker, SA, Lee, A. (2018). $\alpha_2\delta-4$ is required for the molecular and structural organization of rod and cone photoreceptor synapses. *J Neurosci*. 2018 Jun 6. [Epub ahead of print] PMID: 29875267.

Tachibana, N, Touahri, Y, Dixit, R, David, LA, Adnani, L, Cantrup, R, Aavani, T, **Wong, RO**, Logan, C, Kurek, KC, Schuurmans, C. (2018). Hamartoma-like lesions in the mouse retina: an animal model of Pten hamartoma tumour syndrome. *Dis Model Mech*. 2018 May 21;11(5). PMID: 29716894.

Ge, Y, Kang, Y, Cassidy, RM, Moon, KM, Lewis, R, **Wong, ROL**, Foster, LJ, Craig, AM. (2018). Clptm1 limits forward trafficking of GABAA receptors to scale inhibitory synaptic strength. *Neuron*. 2018 Feb 7;97(3):596-610.eB. PMID: 29395912.

Zhang, C, Yu, WQ, Hoshino, A, Huang, J, Rieke, F, Reh, TA, **Wong, ROL**. (2018). Development of ON and OFF cholinergic amacrine cells in the human fetal retina. *J Comp Neurol*. Epub 2018 Feb 6. PMID: 29405294.

Jorstad, NL, Wilken, MS, Grimes, WN, Wohl, SG, VandenBosch, LS, Yoshimatsu, T, **Wong, RO**, Rieke, F, Reh, TA. (2017). Stimulation of functional neuronal regeneration from Müller glia in adult mice. *Nature*. 2017 Aug 3;548(7665):103-107. Epub 2017 Jul 26. PMID: 28746305.