

Abdel-Khalik to Bolton

Abdel-Khalik, Hany S; nuclear engineering, from Idaho National Laboratory, \$130,000, "Contributing to Accelerated Technology Development through New Extrapolation and Validation Methods."

Ackerson, Jason P; agronomy, from South Dakota State University, \$142,904, "A Scalable Framework for Dynamic Soil Property Inventory: Merging Proximal Sensing Data and Digital Soil Mapping for Rapid, Low Cost Dsp Mapping."

Adeola, Olayiwola; animal sciences, from Danisco Animal Nutrition, \$1, "Danisco."

Aggarwal, Vaneet; industrial engineering, from Silicon Valley Community Foundation, \$100,000, "Deeplace: Deep-Learning Online Service Placement in Edge Computing Under Peak and Average Constraints."

Ajuwon, Kolapo; animal sciences, from BioMatrix Inc, \$15,000, "Nutritional Physiology Program."

Alexeenko, Alina; aeronautics & astronautics, from Merck Serono, \$10,000, "LyoHub Consortium (40001294)."

Alexeenko, Alina and Topp, Elizabeth M; engineering administration, industrial & physical pharmacy, from SiO2 Medical Products, Inc, \$9,718, "Lyophilization in SiO2 Vials and Residual Moisture Analysis."

Alexeenko, Alina; aeronautics & astronautics, from Millrock Technology Inc, \$6,000, "LyoHub Consortium (40001294)."

Ambrose, Rose Prabin Kingsly; Agricultural & Biological Engineering Program, from Mead Johnson Nutritionals, \$5,000, "Powder Dustiness Studies (Statement of Work Under Master Agreement 21068294)."

Appenzeller, Joerg and Raghunathan, Anand; electrical & computer engineering, from Multi-Sponsored Industrials, \$1,000,000, "Center for Secure Microelectronics Ecosystem." (a Discovery Park award - Birck Nanotechnology Center)

Baributsa, Dieudonne; entomology, from Larry L and Evelyn S Murdock, \$500, "PICS Voluntary Support."

Basaran, Osman A; chemical engineering, from Dow Chemical Company, The, \$25,000, "Purdue Process Safety and Assurance Center(P2SAC) (40001308)."

Basaran, Osman A; chemical engineering, from Honeywell Inc., \$25,000, "Purdue Process Safety and Assurance Center(P2SAC) (40001308)."

Baxmeyer, Adam W; Airport Operations, from Federal Aviation Administration, \$23,000, "CRRSA Airport Grant."

Beaudoin, Stephen P; chemical engineering, from Sandia National Laboratories, \$5,000, "Sandia Academic Alliance Fellowship for Cara Stevenson (Grant 14000452)."

Beckerman, Janna L; botany & plant pathology, from Michigan State University, \$42,750, "Non-Oomycete Root & Crown Rot Efficacy - Rhizoctonia (10)."

Beckerman, Janna L; botany & plant pathology, from Michigan State University, \$10,000, "Non-Oomycete Root & Crown Rot Efficacy - Rhizoctonia (10)."

Bentley, Robin T; veterinary clinical sciences, from University of Alabama at Birmingham, \$38,088, "CANINE Immuno Neurotherapeutics (Grant 11000861)."

Bergeson, Scott M; biology, from Fox Island Alliance, \$4,212, "Habitat Selection and Torpor Use by Northern Long-Eared Bats in Allen County."

Bertino, Elisa; computer science, from IBM, \$76,314, "IBM DAIS ITA - BPP20 - Inc - \$76,314 - 13000865."

Bertino, Elisa; computer science, from IBM, \$100,000, "IBM DAIS ITA - BPP20 - Inc - \$100,000 - 13000865."

Bertino, Elisa and Matei, Sorin Adam; computer science, liberal arts administration, from National Science Foundation, \$298,214, "EAGER: SaTC: EDU: Small: a Life-Cycle Approach for AI-Based Cybersecurity Education."

Bhunja, Arun K; Knipp, Gregory Thomas; Cox, Abigail D and Drolia, Rishi; food science, industrial & physical pharmacy, comparative pathobiology, from Trask Trust Fund, \$25,000, "Authentication of Listeria Adhesion Protein (LAP)-Mediated Drug Delivery Across the Epithelial Barrier."

Bingham, Clifton W; computer science, from National Science Foundation, \$31,713, "Collaborative Research: Workshop to Develop a Roadmap for Greater Public Use of Privacy-Sensitive Government Data."

Blades, Deborah J; Alavizadeh, Alireza; Mikhail, Maged B and Zahraee, Afshin H; technology administration, engineering technology, construction science and organizational leadership, from Nuts, Bolts & Thingamajigs, \$7,500, "Nuts Bolts and Thingamajigs Summer Camps."

Boltasseva, Alexandra; Jacob, Zubin and Shalaev, Vladimir M; electrical & computer engineering, from U.S. Department of Energy, \$467,793, "Control of Light-Matter Interaction with Epsilon-Near-Zero Homogeneous Alternative Plasmonic Materials." (a Discovery Park award - Birck Nanotechnology Center)

Boltasseva, Alexandra and Shalaev, Vladimir M; electrical & computer engineering, from Air Force Office of Scientific Research, \$200,000, "Trans-Dimensional Photonics: from Evolution of Material Properties to Exploring Extreme Regimes of Light-Matter Interactions; Modification 1."

Bolton, J Stuart; mechanical engineering, from Ford Motor Company, \$218,875, "Rolling Tire Noise Model - Structural."

Boudouris to Connor

Boudouris, Bryan W and Savoie, Brett; chemical engineering, from Air Force Office of Scientific Research, \$199,926, "Manipulating the Spatial, Charge Transfer, and Energetic Interactions of Open-Shell Moieties in Multifunctional, Low Glass Transition Temperature Radical Polymers; Modification 2; Grant 13000756."

Bramson, Ali; earth, atmospheric, & planetary sciences, from Planetary Science Institute, \$28,496, "Microstructural Evolution of Solar System Ices through Sintering."

Bramson, Ali; earth, atmospheric, & planetary sciences, from Johns Hopkins University Applied Physics, \$11,454, "Ali Bramson: NASA LRO Mini-RF ESM4."

Braun, James E; mechanical engineering, from Daikin Manufacturing Company, LP, \$25,000, "Center for High Performance Building Consortium (40001369)."

Braun, James E; mechanical engineering, from Southern California Edison Co., \$50,000, "Center for High Performance Building Consortium (40001369)."

Braun, James E; mechanical engineering, from Lennox Industries, Inc., \$50,000, "Center for High Performance Building Consortium (40001369)."

Braun, James E; mechanical engineering, from Duke Energy Indiana, Inc., \$50,000, "Center for High Performance Building Consortium (40001369)."

Brewer, Brady E and Gray, Allan W; agricultural economics, from the Nature Conservancy, \$50,000, "Evaluating a Fee-Based Service Business Model for Agricultural Retailers."

Brewster, Amy L and Bartlett, Edward L; psychological sciences, biological sciences, from PHS-NIH National Institute Neurological Disorders and Strokes, \$333,775, "A Role for the Complement System in Seizure Induced Neuronal and Dendritic Injury (Grant 11000693)."

Brinton, Christopher Greg and Love, David J; electrical & computer engineering, from Office of Naval Research, \$350,000, "Network-Aware Distributed Machine Learning and Sensor Fusion for Spectrum System Intelligence."

Brinton, Christopher Greg; Krogmeier, James V and Love, David J; electrical & computer engineering, from Ford Motor Company, \$204,277, "Signal Processing and Machine Learning Approaches to Multiple Antenna Positioning for Phone as a Key (PaaK)."

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, \$100,000, "SPR-4252 Forensic Investigations."

Bullock, Darcy M; civil engineering, from Indiana Department of Transportation, \$150,122, "SPR-4600 Impacts to Traffic Behavior from Queue Warning Truck."

Campbell, Noll L; pharmacy practice, from PHS-NIH National Institute on Aging, \$655,365, "Reducing Risk of Dementia through De-Prescribing (R2D2)."

Campbell, Wayne W; nutrition science, from University of Colorado Denver, \$39,193, "Predicting Health Outcomes of Mediterranean Diet via Metabolomics of Foods and Biospecimens (Grant 11000779 - Amendment 4)."

Cannon, Jason R; Lee, Linda S; Rochet, Jean-christophe; Sepulveda, Maria Soledad and Koss, Wendy Ann; health sciences, agronomy, medicinal chemistry & molecular pharmacology, forestry & natural resources, from PHS-NIH National Institute on Aging, \$308,499, "PFOS-Induced Dopaminergic Neurodegeneration Across Nematode, Amphibian, and Rodent Models."

Celik, Zeynel Berkay; Bianchi, Antonio; Tian, Jing and Xu, Dongyan; computer science, from Office of Naval Research, \$200,000, "Bringing Fuzzing to the Cyber-Physical World."

Chandramouli, Chandramouli Viswanathan and McLees, David A; technology administration, from Barker Mansion, \$1,600, "Factory Model Project Barker Mansion Factory Exhibit: 2021."

Chandrasekar, Srinivasan; Udupa, Anirudh and Trumble, Kevin P; industrial engineering, materials engineering, from National Science Foundation, \$461,650, "Disruption of Plastic Flow in Metals by Adsorbed Organic Monolayers."

Chatzidakis, Stylianos; nuclear engineering, from Oak Ridge National Laboratory, \$20,000, "Studies on Spent Nuclear Fuel Dry Storage."

Chipman, Shannon M; field extension, from Ohio County Community Foundation, \$100, "Blocks and Talks- School Readiness Series."

Chopra, Gaurav; chemistry, from Merck Sharp & Dohme Corp, \$55,000, "Assay Development and Optimization to Differentiate Immune Response Induced by Vaccination and Natural Viral Infection."

Christian, John A; comparative pathobiology, from Dennis B & Janice L DeNicola, \$2,400, "National Cytology Resource."

Chynoweth, Brandon C and Jewell, Joseph S; aeronautics & astronautics, from Naval Surface Warfare Center Dahlgren Division, \$5,000, "Experimental Gap-Cavity Testing in the Boeing/AFOSR Mach-6 Quiet Tunnel."

Coddington, Jennifer A; nursing, from One to One Health, \$22,526, "Faculty Lease Agreement."

Collicott, Steven H; aeronautics & astronautics, from National Aeronautics and Space Administration, \$599,701, "Integrating Microgravity Medical Suction and Microgravity Surgical Facility."

Collicott, Steven H; aeronautics & astronautics, from National Aeronautics and Space Administration, \$605,347, "Nucleation of Cryogenic Bubbles in Spacecraft Liquid Acquisition Devices - Knowledge Payload."

Collicott, Steven H; aeronautics & astronautics, from National Aeronautics and Space Administration, \$615,971, "Lander-Style Vehicle Plume-Structure Heat Transfer Monitoring - Knowledge Payload."

Connor, Robert J; civil engineering, from Modjeski and Masters Inc, \$70,000, "Evaluating the AASHTO LRFD Bridge Design Specifications for Redundancy, Ductility and Robustness."

Corley to Gray

Corley, Baraka B; Student Success, from Council for Opportunity in Education, \$1,714, "Council for Opportunity in Education Emergency Grant Aid (Grant: 40003308)."

Couture, John J; entomology, from North Carolina A & T University, \$15,000, "Integrative Research for Sustainable Crucifer Production: Pest Management, Soil Health and Profitability."

Cui, Meng; electrical & computer engineering, from PHS-NIH National Eye Institute, \$253,500, "Optical Gearbox for High Speed Neural Recording."

Cziczko, Daniel James; earth, atmospheric, & planetary sciences, from National Aeronautics and Space Administration, \$133,353, "Dynamics and Chemistry of the Summer Stratosphere (Amendment 6; Grant 12000300)."

Dai, Mingji; chemistry, from National Science Foundation, \$500,000, "Carbonylation Methodologies and Strategies for Building Complex Chemical Structures."

DeLaurentis, Daniel A and Sundaram, Shreyas; aeronautics & astronautics, electrical & computer engineering, from Naval Sea Systems Command Naval Surface Warfare Center (NAVSEA/NSWC) Crane, \$70,000, "NEEC CR-01- Modeling Complex Hypervelocity Flight Systems-of-Systems at the Component Scale - INC - \$70k - Grant 13000879."

Delaware, Benjamin J; computer science, from Tangram Flex, Inc, \$15,000, "Binary-Protocol Investigation of Specifications Operationalizing Narcissus (BISON)."

Denos, Benjamin R; Goodsell, Johnathan Eugene and Kim, Garam; Composites Manufacturing & Simulation Center, aeronautics & astronautics, from Argonne National Laboratory, \$104,038, "Develop Qualified Manufacturing Process for Preliminary ITK Inner System Quarter."

Dietz, James Eric; computer information technology, from General Dynamics Information Technology, Inc, \$15,886, "Technical Instruction and Evaluation for Automating Navy STIG/Cybersecurity (Grant 13000932)."

Dunning, John B; forestry & natural resources, from Amos W. Butler Audubon Society, Inc., \$735, "Equipment Request for Banding Northern Saw-Whet Owls."

Duval-Couetil, Nathalie A L; technology leadership & innovation, from Michelson 20MM Foundation, \$20,000, "Advancing Intellectual Property Education."

Dydak, Ulrike; Park, Jae Hong; Liu, Sa; Kuhn, Jonathan R; Bowman, Aaron B and Wells, Ellen M; health sciences, mathematics, statistics & computer science, from PHS-NIH National Institute of Environment Health Science, \$601,290, "Neuroimaging of Manganese Toxicity."

Dydak, Ulrike; health sciences, from Feinstein Institute for Medical Research, \$37,011, "Relationships Between Neuroactive Steroids, GABA and Glutamate MRS and Connectivity of the Default Mode Network in Postpartum Depression."

Dykhuizen, Emily C; medicinal chemistry & molecular pharmacology, from American Cancer Society, \$792,000, "Paralog-Specific Roles for CBX7 and CBX8 in Transcription and Cancer."

El-Azab, Anter A; materials engineering, from Fluor Marine Propulsion, \$356,732, "Constitutive Models for 304 Stainless Steel and Inconel Alloy A600 Plasticity."

Erasmus, Marisa A; animal sciences, from North Carolina A & T University, \$60,000, "Collaborative Research: Excellence in Research: Interactive Effects of Dietary Fat and Gut Microbiota on Neurobehavioral Development in Gallus Gallus."

Flaherty, Elizabeth A and Creighton, John C; forestry & natural resources, biological sciences, from The Nature Conservancy, \$4,606, "USFWS American Burying Beetle."

Freeman, Jennifer L and Lee, Linda S; health sciences, agronomy, from PHS-NIH National Institute of Environment Health Science, \$212,744, "Developmental Origins of Neurotoxicity of the Polyfluoroalkyl Substance (PFAS) GenX."

Friedman, Elliot M; Teas, Elizabeth A; Ferraro, Kenneth F; Ostaneck, Kristine M and Thomas, Patricia A; human development & family studies, sociology, from PHS-NIH National Institute on Aging, \$46,036, "A Life Course Perspective on Social Connectedness and Adult Health."

Frueh, Carolin E; aeronautics & astronautics, from Sandia National Laboratories, \$100,000, "Automated Target Recognition with Sandia RAVE."

Garner, Allen L; nuclear engineering, from Office of Naval Research, \$170,000, "Reconfigurable Plasma Protection Against High Power Microwaves."

Garner, Allen L and Wu, Wenzhuo; nuclear engineering, industrial engineering, from Office of Naval Research, \$53,558, "Novel High Power Microwave System Designs Using Non-Linear Transmission Lines; Modification 3; Grant 13000648."

Garner, Allen L; nuclear engineering, from Boise State University, \$99,998, "Crossed-Field Device Physics in Perturbed Systems; Amendment 2; Grant 13000763."

Gavin, Timothy P; health & kinesiology, from American Heart Association, \$200,000, "Skeletal Muscle Microvascular Dysfunction in Obesity."

Goldberg, David; mathematics, from National Security Agency, \$25,000, "Field of Dreams Conferences 2018 and 2019."

Goni Cortes, Joaquin; industrial engineering, from Indiana University, \$11,086, "Statistical Models for Multi-Modal Brain Imaging Studies of HIV-Associated Cognitive Decline (Grant 11000503)."

Goppert, James Michael; aeronautics & astronautics, from Air Force Research Laboratory, \$50,000, "Autonomous UAS Student Project."

Gray, Colin M; computer graphics technology, from National Science Foundation, \$16,000, "CHS: Small: Improving Everyday Ethics in Sociotechnical Practice."

Groll to Johnson

Groll, Eckhard A; mechanical engineering, from QM Power, Inc., \$35,000, "Multi Sponsor Groll."

Guan, Wenjing; horticulture & landscape architecture, from Monsanto Company, \$1,200, "2020 Standard-Size and Personal-Size Triploid Watermelon Variety Evaluation."

Hall, Beth Lynelle; agronomy, from National Oceanographic & Atmospheric Administration, \$469,366, "Regional Climate Center Services: Midwestern Regional Climate Center (MRCC)."

Hall, Mark C; biochemistry, from Summer Science Program, \$7,200, "Summer Science Program."

Hamer, Lawrence Olin; business administration, from Indiana Economic Development Corporation, \$65,151, "Northwest Indiana Small Business Development Center 2021 (State Funds)."

Hamer, Lawrence Olin; business administration, from Indiana Economic Development Corporation, \$221,649, "Northwest Indiana Small Business Development Center 2021 (Federal Funds & PNW Match)."

Handley, Mont A; Mikhail, Maged B; Stefanek, George L; Jin, Ge; Latif, Niaz and Zahraee, Mohammad A; technology administration, engineering technology, computer information technology & graphics (CIT&G), from Economic Development Administration, \$726,389, "Project Traverse: agTech Robotics, Automation and Virtually Employed Resiliently Scaling Enterprises."

Harbin, Sherry L; biomedical engineering, from Indiana University Purdue University at Indianapolis, \$4,185, "NIH F30 Fellowship - JD Damrath - Supplement."

Harris, Jason T and Bowman, Aaron B; health and human sciences administration, health sciences, from Nuclear Regulatory Commission, \$450,000, "Purdue University Health Physics Faculty Development Plan."

Heister, Stephen D; aeronautics & astronautics, from InSpace, LLC, \$175,540, "Rotating Detonation Engines for Increased Payload to Orbit at Lower Cost."

Henderson, Jason R and McCartney, Lais A; Cooperative Extension Service, field extension, from University of Minnesota, \$130,000, "Indiana PDP State Plan of Work, Calendar Years 2021-2022."

Hertel, Thomas W; agricultural economics, from Economic Research Service, \$20,435, "GTAP Consortium (40001186)."

Hertel, Thomas W; agricultural economics, from UNCTAD, \$20,435, "GTAP Consortium (40001186)."

Hertel, Thomas W; agricultural economics, from Council of Economic Advisors, \$20,435, "GTAP Consortium (40001186)."

Hertel, Thomas W; agricultural economics, from MITRE Corporation, \$20,435, "GTAP Consortium (40001186)."

Hirleman, E Daniel; Office of Corporate and Global Partnerships Administration, from American University of the Middle East, \$10,000,000, "Affiliation Agreement."

Hogenesch, Harm; comparative pathobiology, from Toralgen, Inc., \$3,247, "Biodistribution of Nanoparticles."

Hogenesch, Harm and Asem, Elikplimi K; comparative pathobiology, basic medical science, from Boehringer Ingelheim Animal Health Inc., \$15,000, "Boehringer Ingelheim Veterinary Scholars Program."

Hook, Tomas O; Carlton, Joshua S; Collingsworth, Paris D and Salazar, Kara A; forestry & natural resources, Illinois-Indiana Sea Grant, from National Oceanographic & Atmospheric Administration, \$1,800,405, "Extending Impact of U.S. EPA'S Great Lakes National Program Office Using Sea Grant Outreach Capacity-".

Horgan, Briony H; earth, atmospheric, & planetary sciences, from National Aeronautics and Space Administration, \$45,000, "Investigating the Origin of Sediments within the Polar Layered Deposits of Mars - Fellowship for Prakhar Sinha - INC - Grant 12000304."

Horgan, Briony H; earth, atmospheric, & planetary sciences, from National Aeronautics and Space Administration, \$30,000, "Signatures of Basalt Weathering Under Cold and Icy Conditions on Mars - Fellowship for Noel Scudder."

Horner, Jane M; field extension, from United Way of Cass County, \$990, "Cass County LatinX Focus Groups."

Hu, Changdeng; medicinal chemistry & molecular pharmacology, from Indiana Clinical and Translational Sciences Institute, \$15,000, "Cryo-EM Structural Analysis of PRMT5 in Complex with pICln."

Jacob, Zubin; electrical & computer engineering, from KLA Corporation, \$50,000, "Multi Sponsor."

Jara, Alissa; pharmacy practice, from R.L. Roudebush Veterans Administration Medical Center, \$38,849, "IPA Agreement for Alissa Russ Extension."

Jayant, Krishna and Pluta, Scott R; biomedical engineering, biological sciences, from PHS-NIH National Institute Biomedical Imaging/Bioengineering, \$226,824, "The Nanoneedle Net: a Flexible and Transparent 3-D Nanoelectrode Array for Mapping Intracellular Dendritic Dynamics at the Cortical Surface [Grant 11001000]."

Jewell, Joseph S and Chynoweth, Brandon C; aeronautics & astronautics, from Sandia National Laboratories, \$70,701, "Measurements on a Variable Bluntness Cone with Features Under Quiet and Noisy Flow."

Jin, Jian; Agricultural & Biological Engineering Program, from UPL OpenAg, \$129,476, "Hyperspectral Imaging System for UPL's Greenhouse Research."

Johnson, Brandon Charles; earth, atmospheric, & planetary sciences, from National Aeronautics and Space Administration, \$286,053, "Structure of Lunar Basins and Moon's Lithosphere as Constrained by GRAIL Gravity and LOLA Topography."

Johnson, Brandon Charles; earth, atmospheric, & planetary sciences, from National Aeronautics and Space Administration, \$45,000, "Sputnik Planitia as a Probe for Pluto's Interior Structure and Global Tectonic Evolution - Fellowship for C. Adeene Denton - INC to Grant 12000354."

Johnson to Mason

Johnson, Timothy; animal sciences, from Agricultural Research Service, \$28,227, "Effect of Probiotics on Aggression in Laying Hens."

Johnson, William G and Young, Bryan G; botany & plant pathology, from Pioneer Hi-Bred International, Inc., \$1,000, "University Next Gen Corn Herbicide COI Trials."

Jung, Byunghoo; electrical & computer engineering, from Korea Electronics Technology Institute, \$4,643, "Ultra-High-Speed and Low-Power Optical Transceiver Components Based on Optoelectronic Integration Technology."

Jung, Jinha; civil engineering, from Texas A&M University, \$10,000, "Unmanned Aerial Vehicle (UAV) Technology for Extension Education in the Texas High Plains."

Kaganovich, Natalya B; Leonard, Laurence B; Christ, Sharon L and Greenwell, Charna T; psychological sciences, speech, language, & hearing sciences, human development & family studies, Speech, Language, & Hearing Sciences Speech Clinic Recharge, from PHS-NIH National Institute on Deafness and Other Communication Disorders, \$325,040, "Audiovisual Processing in Children with Developmental Language Disorder - 11000846."

Kao, Shih-Chun; health & kinesiology, from Spencer Foundation, \$50,000, "Repeating Acute Exercise Effects to Maximize Brain Function, Cognition, and Academic Achievement in School-Aged Children."

Kasinski, Andrea L and Low, Philip S; biological sciences, chemistry, from PHS-NIH National Cancer Institute, \$406,459, "Ligand-Mediated, Vehicle-Free Delivery of Small RNAs."

Kate, Aniket Pundlik; Bagchi, Saurabh and Chaterji, Somali; computer science, electrical & computer engineering, Agricultural & Biological Engineering Program, from National Institute of Food and Agriculture, \$810,000, "Collaborative Research: CPS: Medium: Secure CPS for Real-Time Agro-Analytics."

Kenttamaa, Hilkka I; chemistry, from Neste Oil Oyj, \$45,000, "Fractionation and Analysis of Heteroatom and Halogen Components in Process Feed, Testing of Aromatics Separation from Saturates and Determination of Aromatics wt% in Heavy Fuel Oil."

Knopik, Valerie S; human development & family studies, from Emory University, \$31,099, "Integrative Prioritization of Alcohol and Drug-Addiction Related Genetic Loci - 11000794."

Kocsis, Jin; Yang, Baijian and Zhang, Tonglin; computer information technology, statistics, from National Science Foundation, \$299,934, "EAGER: SaTC-EDU: Cybersecurity Education in the Age of Artificial Intelligence: a Novel Proactive and Collaborative Learning Paradigm."

Kong, Nan; biomedical engineering, from National Science Foundation, \$16,000, "REU Supplement: GOALI/Collaborative Research: Consistent Nursing Home Staff Planning Under Heterogeneous Service Demand (Grant 10001388)."

Kong, Nan; biomedical engineering, from National Science Foundation, \$16,000, "REU Supplement: Collaborative Research: Optimizing Trauma Care Network Design."

Kossek, Ellen E; Lee, Kyung Hee and Xu, Jiayun; management, management administration, nursing, from Work Life Help LLC, \$142,492, "Family Supportive Supervisor Training and Workplace Assessment Tool."

Lee, Chi Hwan; Malandraki, Georgia; Craig, Bruce A and Smith, Anne; biomedical engineering, speech, language, & hearing sciences, statistics, from PHS-NIH National Institute Biomedical Imaging and Bioengineering, \$187,825, "Development and Validation of a Mechanically Compliant Wearable Monitoring System for Swallowing Function and Disorders."

Liceaga, Andrea M; food science, from Mars Wrigley Confectionery US, LLC, \$9,000, "Multi Sponsored Gift- Sensory."

Liceaga, Andrea M; food science, from EggLife Foods, Inc, \$2,000, "Multi Sponsored Gift- Sensory."

Lin, Guang; mechanical engineering, from Brookhaven National Laboratory, \$100,000, "A Deep Learning-Based Online Platform for Critical Anomaly Detection and Emergency Control to Enhance Grid Reliability and Resiliency."

Long, Elizabeth Yim; entomology, from Michigan State University, \$48,098, "Exploring Linkages Between IPM Practices, Social Networks, and Success of Carrot Weevil Management in the Great Lakes Region."

Lu, Yung-hsiang; electrical & computer engineering, from National Science Foundation, \$225,000, "CDSE: Collaborative: Cyberinfrastructure to Enable Computer Vision Applications at the Edge Using Automated Contextual Analysis."

Lyon, Angeline M; chemistry, from PHS-NIH National Heart, Lung, and Blood Institute, \$378,641, "Structural Studies of PLCepsilon a Regulator of Cardiac Contractility and Hypertrophy (Grant 11000702)."

Manfra, Michael James; physics & astronomy, from Rochester Institute of Technology, \$163,933, "Non-Equilibrium Quantum Computing with Spins in Semiconductors, Amendment 3; Grant 13000702." (a Discovery Park award - Birck Nanotechnology Center)

Mao, Chengde; chemistry, from Merck Sharp & Dohme Corp, \$50,000, "(AFM) Imaging in HPV VLP Structural Characterization and Assembly."

Mao, Chengde; chemistry, from National Science Foundation, \$248,639, "Collaborative Research: FTE: Medium: Three Dimensional Algorithmic Assembly and Information Storage."

Martinez, Kimber J; agricultural sciences education & communication, from U.S. Department of Justice, \$747,093, "MESA School Violence Prevention."

Mason, Linda J; graduate school administration, from Purdue Research Foundation (PRF) Summer Research Grants, \$21,903, "2021-22 Summer Research Grant Assistantships - Graduate School (71000076)."

Mason to Prokopy

Mason, Linda J; graduate school administration, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,476, "2021-22 Summer Research Grant Assistantships - Graduate School (71000076)."

Mason, Linda J; graduate school administration, from Purdue Research Foundation (PRF) Summer Research Grants, \$5,476, "2021-22 Summer Research Grant Assistantships - Graduate School (71000076)."

Mason, Linda J; graduate school administration, from Purdue University Frederick N. Andrews Fellowship, \$8,742, "2020-21 Andrews Fellowships/Assistantships - Graduate School (71000070)."

Mason, Linda J; graduate school administration, from Purdue Research Foundation (PRF) Summer Research Grants, \$136,896, "2021-22 Summer Research Grant Assistantships - Graduate School (71000076)."

Mason, Linda J; graduate school administration, from Ross Graduate Fellowship-Assistantship, \$31,668, "2020-21 Ross Fellowships/Assistantships - Graduate School (71000079)."

Mason, Linda J; graduate school administration, from Purdue Research Foundation (PRF) Summer Research Grants, \$408,020, "2021-22 Summer Research Grant Assistantships - Graduate School (71000076)."

Mason, Linda J; graduate school administration, from Purdue Research Foundation (PRF) Summer Research Grants, \$54,758, "2021-22 Summer Research Grant Assistantships - Graduate School (71000076)."

Mattoo, Seema; biological sciences, from University of California - Davis, \$46,500, "Innate Immune Sensing of ER Stress During Bacterial Infection (Grant 11001015 Amend #1)."

Mentzer, Nathan; Farrington, Shawn W and Koehler-Blair, Adrie Anne; technology leadership & innovation, curriculum & instruction, from National Science Foundation, \$599,980, "Expanding Accessibility of Learning through Blended Synchronous Instruction of F2F and Remote Students."

Mishra, Dharmendra K; food science, from Higher Education Commission Pakistan, \$3,500, "Bench Fee - Nida Iqbal."

Monroe, James Scott; field extension, from TEXAS GREEN STAR, LLC, \$3,000, "Scott Monroe Food Safety Outreach (VO)."

Morris, Aaron B; mechanical engineering, from Colorado School of Mines, \$125,066, "Economic Long-Duration Electricity Storage by Using Low-Cost Thermal Energy Storage and High-Efficiency Power Cycle; Amendment 2; Grant 14000444."

Mort, Paul R and Wassgren, Carl R; materials engineering, from Eli Lilly and Company, \$180,000, "Regime Mapping in Fluidized Bed Binder Granulation."

Mudawar, Issam; mechanical engineering, from National Aeronautics and Space Administration, \$89,000, "Flow Boiling and Condensation Experiment (FBCE); Amendment 15; Grant 12000201."

Munson, Eric J; Taylor, Lynne S and Sheehan, Amy Heck; industrial & physical pharmacy, pharmacy practice, from United States Pharmacopeial Convention, \$84,000, "Developing 3DP for Pharmaceuticals."

Murakami, Masahiro; veterinary clinical sciences, from Association of American Veterinary Medical Colleges, \$7,400, "Global Grand Rounds in Diagnostic Imaging Educational Exchange."

Murawski, Matthew M; pharmacy practice, from Thomas M Sands, \$1,500, "Multi Sponsor - Voluntary Support."

Narsimhan, Vivek; chemical engineering, from NovaFlux, Inc, \$25,000, "Multi Sponsor."

Neville, Jennifer L and Crawford, Melba M; computer science, agronomy, from University of Oklahoma, \$166,663, "AI Institute: Planning: a Gap-Based Approach to Frame and Develop Robust AI for Sustainable Agriculture."

Noinaj, Nicholas; biological sciences, from PHS-NIH National Institute of General Medical Science, \$315,579, "Structural Characterization of the TOC Protein Translocon Machinery (Grant 11000709 Amend #4)."

Ogata, Niwako; veterinary clinical sciences, from Pet TV HQ, \$9,999, "Evaluating Behavioral and Physiological Effects of Dog TV as an Environmental Enrichment Tool in Dogs."

Ostaneck, Kristine M; human development & family studies, from Pennsylvania State University, \$177,403, "An Adoption Study of the Development of Early Substance Use: the Joint Roles of Genetic Influences, Prenatal Risk, Rearing Environment, and Pubertal Maturation (Grant 11000799)."

Parkinson, Elizabeth I; chemistry, from PHS-NIH National Institute of General Medical Science, \$370,472, "Mining Cryptic Biosynthetic Gene Clusters for Novel Bioactive Compounds (Grant 11001022)."

Pasupathy, Raghu; statistics, from Office of Naval Research, \$18,323, "Stochastic and Simulation Optimization Over Function Spaces: Theory, Methods, and Algorithms."

Pekarek, Steven D and Sudhoff, Scott D; electrical & computer engineering, from Continuous Solutions, \$287,981, "Power-Dense Electrical Rotating Machines for Propulsion and Power Generation Phase 2."

Peroulis, Dimitrios; electrical & computer engineering, from Landauer Inc., \$75,000, "Center for Electronic Defense Systems (CEDs) Consortium."

Peroulis, Dimitrios; electrical & computer engineering, from Office of Naval Research, \$190,000, "Wideband and High-Power Reconfigurable Plasma Matching Network for Compact and Efficient Phased Array Emitters."

Prokopy, Linda S; forestry & natural resources, from Nature Conservancy, The, \$150,000, "Evaluation of Farmer-to-Farmer Networks."

Psomas to Stantz

Psomas, Christos Alexandros; computer science, from Google Inc, \$60,000, "Multi Sponsor."

Pushkar, Yulia N; physics & astronomy, from National Science Foundation, \$272,475, "Collaborative Research: Graphite-Conjugated Macrocyclic Electrocatalysts for Nitrate Reduction."

Qu, Ming; civil engineering, from Oak Ridge National Laboratory, \$130,000, "Develop a Software Tool for Feasibility Study, Engineering Design, and Optimization of a Geothermal Heat Pump System Integrated with Thermal Energy Storage (Grant 14000455)."

Ramanathan, Shriram; materials engineering, from Air Force Office of Scientific Research, \$155,000, "Increase: Neutron Reflectometry and X-Ray Scattering Studies on Dopant Injection Dynamics into Correlated Nickelates (13000754 - Modification 2)."

Ratliff, Timothy L and Elzey, Bennett D; comparative pathobiology, from PHS-NIH National Institute Allergy Infectious Disorders, \$226,841, "T Cell Regulation by Adult Prostate STEM Cells."

Rawls, Rachel S; field extension, from St. Joseph County 4-H Fair, Inc, \$5,000, "St. Joseph County 4-H Program Fair Assistant."

Renzulli, Linda A; sociology, from National Science Foundation, \$230,000, "Collaborative Research: Pandemic Partnerships: Schools, Families, and Educational Inequality During COVID-19 and Beyond."

Rhoads, Jeffrey Frederick; Bolton, J Stuart; Davies, Patricia; Gonzalez, Marcial and Son, Steven F; mechanical engineering, from Air Force Research Laboratory, \$200,000, "Exploring the Thermo-mechanics of Energetic and Mock Energetic Composite Materials Under Quasi-Static and Near-Resonant Excitations, Mod II; (Grant 13000634)."

Richert, Brian T; animal sciences, from ADM Animal Nutrition, \$1,500, "Swine Research."

Rickus, Jenna L and Luzader, Timothy B; Career Success, from Arizona State University, \$20,000, "UIA: Bridging the Gap from Education to Employment (BGEE)."

Roy, Kaushik; electrical & computer engineering, from IBM, \$40,980, "Self-Aware Cognitive Services for Distributed Coalition Environments - BPP20."

Roy, Kaushik; electrical & computer engineering, from IBM, \$85,000, "Self-Aware Cognitive Services for Distributed Coalition Environments - BPP20."

Savaiano, Dennis A; nutrition science, from Indiana University School of Medicine, \$32,500, "Preventive Health & Health Services Block Grant."

Savikhin, Sergei F; physics & astronomy, from National Science Foundation, \$159,704, "REU Site: Multidisciplinary Physics at Purdue University (Grant 10001464)."

Schoenlein, William E; biomedical engineering, from Cook Research Incorporated, \$33,857, "Pre-Clinical Evaluation Testing Agreement: CI-NFTI, CMH-MOB2 and POC."

Scott-Moncrieff, Joanna C R; veterinary clinical sciences, from Fitness Studio Avi Zipori, \$30, "Multi Sponsor - Voluntary Support."

Searle, Catherine L; biological sciences, from National Science Foundation, \$25,802, "BEE: Evolutionary Rescue in Response to Infectious Disease: When Will Populations Be Rescued from Pathogens? (Grant 10001486)."

Shah, Kavita; chemistry, from Harvard Medical School, \$87,835, "Investigating 53BP1 'Dephosphorylation' as a Critical Determinant of Parp Inhibitor Sensitivity."

Shakouri, Ali; electrical & computer engineering, from IdentifySensors Biologics Corp, \$70,000, "Consortium on Printing and Scalable Manufacturing of Aware and Responsive Thin Films (SMART) (40001388)."

Shen, Jie; mathematics, from Air Force Office of Scientific Research, \$127,354, "Efficient and Accurate Structure Preserving Schemes for Complex Nonlinear Systems."

Siegmund, Thomas H; Howarter, John A and Pyrak-Nolte, Laura J; mechanical engineering, physics & astronomy, from National Science Foundation, \$16,000, "LEAP-HI: Engineering New Solutions to Reduce the Burden of Skeletal Fracture."

Slipchenko, Lyudmila V; chemistry, from National Science Foundation, \$450,000, "Detangling Energy and Charge Transfer in Photosystem I."

Snyder, Margie E; pharmacy practice, from R.L. Roudebush Veterans Administration Medical Center, \$17,848, "IPA Agreement for Margie Snyder."

Son, Steven F; Manship, Timothy D and Strachan, Alejandro H; mechanical engineering, engineering administration, materials engineering, from Defense Advanced Research Projects Agency, \$135,983, "Characterization of Novel Energetic Material with Sub-Scale Experiments Correlated to Large Scale Tests Using Machine Learning (Grant 13000993)."

Sravan, Niharika and Milisavljevic, Danny; physics & astronomy, from Space Telescope Science Institute, \$16,940, "Decrease: Optimal Use of HST for Obtaining Statistical Constraints for SN IIB Progenitors and Their Companions (12000381)."

Stahelin, Robert V; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute Allergy Infectious Disorders, \$198,076, "Drug Discovery in Infectious Disease Training - Inc - \$198,076 - Grant 11001013."

Stahl, Aletha D; Babic Williams, Tatjana and Koch, Jane E; International Programs administration, language & culture, from American Council on the Teaching of Foreign Languages, \$2,000, "Growing Intercultural Speakers in Novice Italian: a Virtual Vs. Face-to-Face Comparison."

Staiger, Christopher J; botany & plant pathology, from Binational Agricultural Research & Development Fund, \$75,872, "Developing New Rooting Enhancers and Strategies for Root Regeneration from Cuttings of Pecan (*Carya illinoensis*) Mature Root-Stocks."

Stantz, Keith M; health sciences, from Indiana University, \$42,362, "2021 Joint PhD Program with IUPUI for Graduate Support - Mahsa Servati."

Stefancik to Wharry

Stefancik, Jennifer L and Santiago, Luis A; field extension, from United Way of Daviess County, \$1,000, "Daviess County Latino Focus Group Grant."

Strachan, Alejandro H; materials engineering, from Cytec Engineering Materials Inc, \$388,119, "Molecular Modeling of Pan Stabilization and Oxidation." (a Discovery Park award - Birck Nanotechnology Center)

Subbarayan-Shastri, Ganesh; mechanical engineering, from Xilinx Inc, \$20,000, "Multi Sponsor Voluntary Support."

Sudhoff, Scott D and Pekarek, Steven D; electrical & computer engineering, from Florida State University, \$10,714, "ESRDC Research Experience for Undergraduates; Amendment 2; Grant 13000762."

Sudhoff, Scott D and Pekarek, Steven D; electrical & computer engineering, from U.S. Department of Energy, \$300,000, "Multi-Objective Design Optimization of 100 kW Non-Rare-Earth or Reduced-Rare-Earth Electric Machines."

Sundaram, Shreyas; electrical & computer engineering, from National Science Foundation, \$15,000, "Travel Grants for the 2021 American Control Conference."

Tan, Hong Z; electrical & computer engineering, from National Science Foundation, \$7,800, "Collaborative Research: CHS: Medium: Increasing Communication Rates through a Tactile Phone-mic Sleeve (TAPS) (Grant 10001688)."

Tay, Sien Chieh; psychological sciences, from Center for Open Science, \$1,625, "SCORE: Replication Study."

Taylor, Zoe E; Ruiz, Yumary and Suitor, J Jill; human development & family studies, health & kinesiology, sociology, from PHS-NIH National Center on Minority Health and Health Disparities, \$632,665, "Mental and Physical Health in Children of Latino Migrant Farm Workers: a Multi-Level Longitudinal Examination of Risk and Resilience Factors - 11001086."

Tesmer, John and Chen, Chun-liang; biological sciences, from American Heart Association, \$144,736, "Structural and Functional Analysis of Phosphatidylinositol 3-Kinase Gamma."

Tesmer, John and Ghosh, Arun K; biological sciences, medicinal chemistry & molecular pharmacology, from PHS-NIH National Heart, Lung, and Blood Institute, \$634,979, "Structure, Function, and Inhibition of G Protein-Coupled Receptor Kinases (Grant 11000983)."

Tesmer, John; biological sciences, from PHS-NIH National Cancer Institute, \$644,675, "Regulation of the Metastasis Promoting Chemokine Receptor ACKR3 by GPCR Kinases, Gbg and Arrestins (Grant 11001003)."

Tesmer, John; biological sciences, from American Heart Association, \$63,040, "Lysosomal Phospholipase A2 and Lecithin-Cholesterol Acyltransferase in Lipid Metabolism."

Tindel, Samy; mathematics, from National Science Foundation, \$103,366, "Applications of Rough Differential Systems:Theoretical Physics, Data Analysis, Numerics, Amendment 1; Grant 10001648."

Ukkusuri, Satish V; civil engineering, from Yahoo Japan Research, \$10,000, "Collaborative Research Agreement."

Uyeda, Christopher H; chemistry, from National Science Foundation, \$475,000, "Dinuclear Metallacycles as Intermediates in Catalysis."

Valtierra, Jose G.; field extension, from Legacy Foundation, Inc., \$500, "Latinx Focus Group Project."

van der Mensbrugghe, Dominique V; agricultural economics, from Inter-American Development Bank, \$20,435, "GTAP Consortium (40001186)."

Verma, Mohit S; Ault, Aaron C; Johnson, Timothy; Koziol, Jennifer H; Pillai, Deepti K and Schoonmaker, Jon; Agricultural & Biological Engineering Program, electrical & computer engineering, animal sciences, veterinary clinical sciences, comparative pathobiology, from Foundation for Food and Agriculture Research, \$321,028, "Field-Deployable Biosensors for Antibiotic Stewardship."

Vyn, Tony J and Cammarano, Davide; agronomy, from Iowa State University, \$111,288, "Evaluating the Relative Influence of Maize Breeding, Field Management, and Environmental Setting on Crop Production and Sustainability Targets."

Wang, Changyou; mathematics, from National Science Foundation, \$266,679, "Variational Problems and Hydrodynamics Arising from Liquid Crystal Materials."

Wang, Nien-hwa L; chemical engineering, from American Resources Corporation, \$726,219, "Testing of Purdue Technologies for the Recovery and Purification of Rare Earth Elements (REEs) from Waste Magnets."

Wang, Nien-hwa L; chemical engineering, from American Resources Corporation, \$72,582, "Testing of Purdue Technologies for the Recovery and Purification of Rare Earth Elements (REEs) from Waste Magnets."

Webb, Kevin J; electrical & computer engineering, from KLA Corporation, \$50,000, "Multi Sponsor."

Webb, Kevin J; electrical & computer engineering, from National Science Foundation, \$8,000, "Multifunctional Optomechanics with Structured Material (Grant 10001528)."

Webb, Kevin J; electrical & computer engineering, from Air Force Office of Scientific Research, \$110,135, "Increase: Nanostructured Material for Optomechanics (13000784 - Modification 3)."

Weber, Zachary A and Arnett, Stephanie J; pharmacy practice, from American Pharmacists Association Foundation, \$1,000, "A Curriculum Review of Diabetes Device Technology Education at Colleges of Pharmacy in the United States."

Weibel, Justin A; mechanical engineering, from Toyota Research Institute of North America, \$30,000, "Pump-Assisted Capillary Loops (Grant 40003256; Amendment #1)."

Wharry, Janelle P; materials engineering, from National Science Foundation, \$113,332, "CAREER: Using Irradiation to Understand Intergranular Fracture Mechanisms of Anisotropically-Bonded Solute Segregants (Grant 10001306)."

Whelton to Zhu

Whelton, Andrew J and Shah, Amisha D; civil engineering, from The Water Research Foundation, \$225,000, "Post-Wildfire Distribution System Water Quality Impacts and Potential Responses."

Whelton, Andrew J; civil engineering, from Delta Faucet Company, \$35,000, "Healthy Plumbing Consortium (40003372)."

Whitacre, Kristi R; field extension, from Wabash Valley Community Foundation, \$1,112, "Vigo County Program Scholarship (Grant 41000707)."

Wilbur, Ronnie B; speech, language, & hearing sciences, from Ohio State University, \$26,350, "Computational Methods for the Study of American Sign Language Nonmanuals Using Very Large Databases."

Wilker, Jonathan J and Schmidt, Gudrun; chemistry, from Leidos, \$154,180, "Biomimetic Underwater Adhesives."

Wilker, Jonathan J; chemistry, from Office of Naval Research, \$141,204, "Wet Bonding of Structural Materials with Biomimetic Adhesives."

Woolcock, Andrew D; Brooks, Aimee C; Da Silva Serpa, Priscila Beatriz and Pires dos Santos, Andrea; veterinary clinical sciences, comparative pathobiology, from Nutramax Labs Veterinary Sciences, Inc., \$63,635, "The Use of S-Adenosylmethionine as an Adjunctive Therapy for Dogs with Primary Immune-Mediated Hemolytic Anemia."

Xu, Dongyan; Grama, Ananth Y; Hartman, Nathan W; Rasmus, Joel A; Okosun, Tyamo and Toth, Kyle A; computer science, computer graphics technology, electrical & computer engineering, Center for Innovation through Visualization and Simulation, from University of Texas at San Antonio, \$1,400,000, "Cybersecurity Manufacturing for Innovation Institute (CyManII)." (a Discovery Park award - Center for Education and Research in Information Assurance and Security.)

Xu, Dongyan; computer science, from Battelle Energy Alliance LLC, \$30,000, "CERIAS Voluntary Support." (a Discovery Park award - Center for Education and Research in Information Assurance and Security.)

Yang, Danzhou; medicinal chemistry & molecular pharmacology, from Gibson Oncology, \$40,000, "Multi Sponsor -Voluntary Support."

Yang, Yang and Koss, Wendy Ann; medicinal chemistry & molecular pharmacology, from PHS-NIH National Institute Neurological Disorders and Strokes, \$381,494, "Neuronal and Behavioral Deficits Associated with Scn2a Deficiency in Autism Spectrum Disorder."

Yaninek, John S and Bledsoe, Larry W; entomology, from Indiana Department of Natural Resources, \$96,824, "Indiana Cooperative Agricultural Pest Survey (CAPS) Work Plans and Budgets Federal FY 2020."

Yoon, Gyeong Mee and Kim, Dongwook; botany & plant pathology, from National Science Foundation, \$50,000, "I-Corpstm Teams- DNA Sensing Technology."

Yu, Denny and Asadi, Hamed; industrial engineering, from University of Cincinnati, \$1,500, "A Computer-Vision Technique to Predict Type/Level of Force Exertions."

Zavattieri, Pablo D; civil engineering, from Oregon State University, \$142,566, "Thermodynamic and Kinetic Simulations and Testing Procedures to Screen for Enhanced Durability of Concrete Containing Industrial Waste."

Zhang, Dianyuan; aeronautics & astronautics, from Global Engineering & Materials, Inc, \$250,000, "Coupled Infusion-Cure Modeling Simulation for Low-Cost Composite Parts for Process Defects and Geometric Conformity SBI."

Zhang, Dianyuan; aeronautics & astronautics, from University of Connecticut, \$35,596, "Multi Sponsor."

Zhang, Min; statistics, from University of Massachusetts, \$4,473, "Burdens of Multimorbidity on Hospitalization and Mortality in Nursing Home Residents with Obesity."

Zhang, Xiangyu and Xu, Dongyan; computer science, from Office of Naval Research, \$193,538, "Learn-to-Reason: a Probabilistic Binary Analysis Infrastructure and its Application in Binary Reduction."

Zhou, Chenn Qian; Chen, Bin; Lee, Seokcheon; Moreland, John R and Nof, Shimon Y; Center for Innovation through Visualization and Simulation, electrical & computer engineering, industrial engineering, from Naval Sea Systems Command Naval Surface Warfare Center (NAVSEA/NSWC) Crane, \$70,461, "Visualization of Repair Operations Management for Networked Systems Resilience; Amendment 3; (Grant 13000757)."

Zhou, Qi; physics & astronomy, from Air Force Office of Scientific Research, \$143,649, "New Quantum States in Synthetic Curved Spaces and Non-Orientable Manifolds."

Zhu, Fengqing; electrical & computer engineering, from Telethon Kids Institute, \$201, "The Mobile Food Record: a Pilot Study Using Images to Assess Dietary Intake in Children and Adolescents with Type 1 Diabetes."

Zhu, Fengqing; electrical & computer engineering, from Telethon Kids Institute, \$7,366, "The Mobile Food Record: a Pilot Study Using Images to Assess Dietary Intake in Children and Adolescents with Type 1 Diabetes." ■

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