

**GRAND CHALLENGES EXPLORATIONS
ROUND 6 GRANT SUMMARIES BY REGION**

Africa				
<u>Last Name</u>	<u>First Name</u>	<u>Project Title</u>	<u>Organization</u>	<u>Country</u>
Cofie	Olufunke	Developing Fortified Excreta Pellets for Use in Agriculture	International Water Management Institute	Ghana
Maradufu	Asafu	Using Senecio lyratipartitus Extract After Anal Ablution	University of Eastern Africa, Baraton	Kenya
Asia-Pacific				
<u>Last Name</u>	<u>First Name</u>	<u>Project Title</u>	<u>Organization</u>	<u>Country</u>
Chen	Hongxiang	Elimination of HIV by X-Ray-Stimulated Photodynamic Therapy	Union Hospital, Tongji Medical College, Huazhong University.	China
Fan	Bin	A Low-Cost Decentralized Sanitary System	Research Center for Eco-environmental Sciences	China
Arora	Manish	Low Cost, Low Power, Mobile Diagnostic Ultrasound Scanner for Affordable Healthcare During Pregnancy	GE India Technology Centre Private Limited	India
John	Jacob	Enhancing Mucosal Immune Response to OPV with IPV	Christian Medical College	India
Mori	Hajime	Oral Vaccination by Poliovirus-Like Particle Protein Chips	Kyoto Institute of Technology	Japan
Cardosa	Jane	Poliovirus Vaccine for the Post Eradication Era	Sentinext Therapeutics	Malaysia
Poulter	Russell	Targeting HIV Provirus with Novel Restriction Endonucleases	University of Otago	New Zealand
Sayre	Elmer	Ecological Sanitation for the Base of the Pyramid	Water, Agroforestry, Nutrition and Development Foundation	Philippines
Song	Insu	Early Child Health Intervention Using Breathing Sound	James Cook Australia Institute of Higher Learning	Singapore
Europe				
<u>Last Name</u>	<u>First Name</u>	<u>Project Title</u>	<u>Organization</u>	<u>Country</u>
Vandekerckhove	Linos	Biomarker and Transcriptome Analysis of the HIV Reservoir	University Hospital Ghent	Belgium
Rakleova	Gorica	Engineering HIV-1 Integrase for Provirus Removal	Sofia University	Bulgaria

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Europe				
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von Kalle	Christof	Persisting HIV-1 Integration Sites in Humans in vivo	Deutsches Krebsforschungszentrum/NCT	Germany
Gyurcsányi	Róbert	Invention of Mobile Poliovirus Diagnostic Platform	Hungarian Academy of Sciences	Hungary
Richter	Sara	G-quadruplex: A Molecular Target for Selective HIV-1 Cure	University of Padova	Italy
Sgarbanti	Marco	Discovery of Tat-mimicking Compounds to Fight HIV Latency	Istituto Superiore di Sanità	Italy
Faber	Bart	Artificial Merozoites as a Blood Stage Malaria Vaccine	Biomedical Primate Research Centre	Netherlands
Gjefle	Karsten	Universal Slum Sanitation with 100% Safe Reuse of Nutrients	Sustainable Sanitation Design	Norway
Koestler	Andreas	Urban Sanitation Solutions for High-Use, Flooded, and Difficult to Serve Areas	Fontes Foundation	Norway
Goncalves	Joao	Sensor Strategies to Eliminate HIV-1 Infected Cells	ADEIM - Faculdade de Farmacia Lisboa	Portugal
Wang	Xiaoyang	A Vaccine-like Approach for Prevention of Preterm Brain Injury	University of Gothenburg	Sweden
Wiberg-Itzel	Eva	A New Method for Handling Dysfunctional Labor	Karolinska Institute	Sweden
Telenti	Amalio	Latency: A Biomarker Discovery Pipeline	Institute of Microbiology, CHUV-UNIL	Switzerland
Barrett	Michael	Adapting Cell Phone Technology for the Diagnosis of Malaria	University of Glasgow	United Kingdom
Carding	Simon	A Novel Way to Increase Intestinal Immunity to Poliovirus	University of East Anglia	United Kingdom
Gardiner	Virginia	An Energy-Producing Waterless Toilet System	Loowatt Ltd.	United Kingdom
Grassly	Nicholas	Improve the Response to Oral Poliovirus Vaccine in India	Imperial College London	United Kingdom

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Jones	Ian	Empty Poliovirus Capsids as Candidate Vaccines	University of Reading	United Kingdom
Lindsay	Steve	Turning Latrines Into Fly Traps	London School of Hygiene and Tropical Medicine	United Kingdom
Moss	David	Development of a Non-live Liposomal Polio Vaccine	Lipoxen plc	United Kingdom
Wyatt	John	Low-cost Pulse Oximetry Probes for Low Resource Settings	Power-free Education and Technology	United Kingdom
Middle East				
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Bilenca	Alberto	A Non-invasive Cellphone Imaging Probe for Diagnosing Malaria	Ben-Gurion University of the Negev	Israel
North America				
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Gates	Ian	Technology to Convert Excreta to Valuable Products	University of Calgary	Canada
Langlois	Marc-André	Destruction of HIV-infected Cells by Molecular Nano-Switches	University of Ottawa	Canada
Bao	Zhenan	Diagnostic Device for Accurate Diagnosis of Pre-eclampsia	Stanford University	United States
Bazan	Guillermo	Design of Microorganisms with Semiconducting Membranes	California Nanosystems Institute	United States
Bett	Glenna	A Device to Treat Post Partum Hemorrhage	SUNY University at Buffalo	United States
Blackburn	James	Decentralized Next Generation Sanitation for Diarrheal Pathogens	Southern Illinois University	United States
Buxton	Iain	Effective Treatment to Prevent Preterm Delivery	University of Nevada, Reno	United States
Chomont	Nicolas	Combining HAART and HIV Immunization to Eradicate HIV	VGTI-Florida	United States

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Choudhury	Mahua	A Sensitive Epigenetic Tool for Prediction of Pre-eclampsia	University of Colorado Denver	United States
Cookson	Natalie	Algae for the Effective and Economical Treatment of Waste	Quantitative BioSciences	United States
Dadachova	Ekaterina	Radioimmunotherapy in Patients on ART for HIV Cure	Albert Einstein College of Medicine	United States
Deiters	Alexander	Reversion of HIV Latency by Small Molecule Inhibition of miR	North Carolina State University	United States
DeStigter	Kristen	Low-Cost Sustainable Solution for Rural Ultrasound	Imaging the World	United States
Dreher	Peter	High Efficiency, Sanitary Toilet with Sewage Treatment	Livvon LLC	United States
Fang	Qianqian	Cell Phone-Based Near-Infrared Camera for High-Risk Neonates	Massachusetts General Hospital	United States
Flanagan	James	Development of a Non-Infectious Poliovirus Vaccine	University of Florida	United States
Foutch	Gary	Develop a Simple Auger-Die Assembly That Treats Fecal Wastes	Oklahoma State University	United States
Garfield	Robert	Treatment of Postpartum Hemorrhage Using Uterine Electrical Stimulation	St. Joseph's Hospital & Medical Center	United States
Ghiran	Ionita	Malaria Screening With a Cell Phone and Magnetic Levitation	Beth Israel Deaconess Medical Center	United States
Herr	John	Non-Hormonal Female Contraceptive Targeting Egg Specific Metalloprotease	University of Virginia	United States
Illian	Mark	Using Waste To Move Waste	Nature Healing Nature	United States
Kagumba	Lawino	Novel Materials for Low-Cost Sanitary Pad Production	American Friends of ZanaAfrica	United States
Kavanagh	Daniel	Identification of Candidate Markers of HIV Latency	Massachusetts General Hospital	United States
Kelley	Kenneth	Low Cost, Single Dose, Oral, Live Ad4-based VP Polio Vaccine	PaxVax	United States
Kerr	Nancy	Circumferential Abdominal-Pelvic Pressure Device for Postpartum Hemorrhage	Global Health Partnerships	United States
King	Steven R	Modifying HIV Proteins To Kill Latently Infected Cells	The Regents of the University of Michigan	United States
Klar	Margo	Ceramic Umbilical Cord Finger Scissors	Yale School of Public Health	United States

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Lieberman-Aiden	Erez	Dirt-Power for Cell Phone Charging in Rural Africa	Harvard University	United States
Mecca	Stephen	Prototype Microflush- Biofil Toilet Facilities	Ghana Sustainable Aid Project	United States
Moore	Melissa J.	siRNA-based Therapeutics for Preeclampsia	University of Massachusetts Medical School	United States
Nelson	Kara	Safe Sludge	University of California Berkeley	United States
Null	Claire	The Latrine Training Mat	Innovations for Poverty Action (IPA)	United States
Nzouonta	Josiane	eMosquitoNet: Electronic Mosquito Net Application	Cayoll LLC	United States
Palasis	Maria	Novel Hemostatic Foam to Treat Postpartum Hemorrhage	Arsenal Medical, Inc.	United States
Puschett	Jules	Marinobufagenin Predicts Later Development of Preeclampsia	Texas A&M Research Foundation	United States
Puzey	Kenneth	SpectraPhone Automated Reagentless Diagnostic System	QuantaSpec Inc.	United States
Rand	Larry	A "Smart Diaphragm" for the Early Detection of Preterm Labor	University of California San Francisco	United States
Robbins	David	Using Cocopeat for Treating Septic Tank Effluent	RTI International	United States
Romerio	Fabio	Cell Surface Biomarkers of Latently Infected Cd4+ T Cells	University of Maryland, Baltimore	United States
Russel	Kory	Integrated Mobile Sanitation Solutions in Peri-Urban Setting	Stanford University	United States
Ryabov	Yaroslav	Palm Vein Biometric Identification Prototype	BC Portal Inc.	United States
Sarvazyan	Noune	New Technology for Assessment of Hydration Status of Newborn	Artann Laboratories	United States
Schneider	Joe	Reusable Self-Decontaminating Sanitary Napkin	LAAMScience, Inc.	United States
Spivak	Adam	Selective Apoptosis Induction in HIV-1 Reservoirs	Johns Hopkins University School of Medicine	United States
Sullivan	Steven R	Preventing Preterm Labor in Low Resource Settings	Medical University of South Carolina	United States
Tender	Leonard	Hybrid Anaerobic Digester-Microbial Fuel Cell for Energy & Nutrient Capture	Naval Research Laboratory	United States

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Tripp	Ralph	Improved Vaccine Technology to Eradicate Polio	University of Georgia Research Foundation	United States
Wang	Xin	Identification of New Treatments for Neonatal H-I Encephalopathy	Brigham and Women's Hospital/Harvard Medical School	United States
Wilcox	Allen	Digitizing Paper-Based Data Via Mobile Image Technologies	VillageReach	United States
Wong	Kin-Ping	The Lotus Throne: A Self-Cleaning Solution to Sanitation	Retina Pharma Inc.	United States
Wright	Peter	Mucosal Immunity in Polio	Trustees of Dartmouth College	United States
Wu	Karen	Diagnostic Device for Early Detection of Neonatal Sepsis	Lucerna, Inc.	United States
Zack	Jerome	Testing Novel Nanoparticles for Antagonizing HIV Latency	University of California, Los Angeles	United States
South America				
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Avila	Antonio	"Lego" like Sanitation System: Pit Latrines Made of Biocomposites	Universidade Federal de Minas Gerais	Brazil
Fioravanti	Marcos	The Earth Auger Toilet: Innovation in Waterless Sanitation	Fundación In Terris	Ecuador

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