UC Discovery Grant Competition Results - October 2009

Awards Listed by Principal Investigator

PI/Director Name (Last, First)		Host Campus	Proposal Title
Anantharam	Venkatachalam	UCB	Iterative Decoding Algorithms and Their Implementation
Asbeck	Peter	UCSD	High power varactor development for adaptive basestations
Bachman	Mark	UCI	Modeling of novel MEMS microphones
Banerjee	Kaustav	UCSB	Electromagnetic and Thermal Modeling of TSVs in 3D ICs
Banerjee	Kaustav	UCSB	Aging Resilient Digital IC Design
Blumenthal	Daniel	UCSB	Integrated PICs for Coherent Test and Measurement
Bradford	Kent	UCD	Genes in Pepper Conferring Microspore Regeneration Capacity
Chandy	George	UCI	Potassium channel blockers as therapy for multiple sclerosis
Cheng	Chung-Kuan	UCSD	Research on High Performance Low Power Interconnect
Clegg	Dennis	UCSB	Soft Tissue Regeneration
Coldren	Larry	UCSB	Optical Phase Locked Loop Technology for Chip-Scale LIDAR Sy
Dandekar	Abhaya	UCD	Chemical sensors to detect citrus crop responses
Davis	James	UCSC	Sensor Enhanced Communication and Computer Interaction
Deutsch	Alin	UCSD	Static Analysis of Artifact-Centric Business Processes
Dey	Sujit	UCSD	Enabling Personalized, Context Aware, Interactive Mobile Adv
Dvorak	Jan	UCD	Construction of the Sweet Orange Physical Map
Earthman	James	UCI	Alternating Magnetic Field Treatment of Service Water
Elkaim	Gabriel	UCSC	Solar Autonomous Boat for Oceanographic Data Gathering
Firestein	Gary	UCSD	Developing PI3 Kinase Inhibitors for Rheumatoid Arthritis
Fruman	David	UCI	Novel mTOR inhibitors as therapeutic agents for leukemia
Gerla	Mario	UCLA	Content and Media Centric Networking in Urban Wireless Grids
Gerla	Mario	UCLA	Vehicular Networks and infrastructure Support
Gibson	Jerry	UCSB	Voice and Video Over Wireless Ad Hoc and Mesh Networks
Green	Michael	UCI	Design of CMOS 10 Gb/s Low-Power A/D Converters
Herr	Amy	UCB	Automated Immunoblotting Technology

Hicks	Robert	UCLA	High Mobility InP/InAs/InP Nanopillar Devices
Hurst	Paul	UCD	Analog Signal Processing Circuits for Digital Communication
Javidi	Tara	UCSD	Cognitive Networks
Kazerooni	Homayoon	UCB	Low Cost and Intelligent Orthotics for Mobility Disorders
LaFerla	Frank M.	UCI	Treating Alzheimer disease with human stem cells (GRNOPC1)
Lakey	Jonathan	UCI	Islet Transplantation Using Alginate Sheet
Liu	Bin	UCSF	Human Antibody Targeted Minicell Drug Delivery Platform
Lyubomirsky	Ilya	UCR	Quadrature Duobinary for 100G Optical Networks
Ma	Wenbo	UCR	Secreted proteins as detection markers for citrus diseases
Martin	Alastair	UCSF	Optimized Methodology for Implantation of DBS Electrodes
Mascal	mark	UCD	Complete Utilization of Biomass in the Production of Biofuel
Mecartney	Martha	UCI	Enhanced Thermal Shock Resistance for Oxygen Sensors
Mitragotri	Samir	UCSB	Nanoparticles for site-specific targeted delivery of drugs
O'Brien	James	UCB	Realtime Simulation for Surgical Planning and Training
Pasquale	Joseph	UCSD	Wireless Cloud Computing for Thin Clients
Pham	Anh-Vu	UCD	Compact High Frequency Wide Bandwidth Passive Modules
Rebeiz	Gabriel	UCSD	High Performance 60 GHz Phased Arrays and Synthesizers
Suda	Tatsuya	UCI	Market-based Resource Allocation for Overlay Networks
VanBrocklin	Henry	UCSF	Imaging Hypoxia: Preparation and Evaluation of [18F]EF5
Vidalakis	Georgios	UCR	The Future California Citrus Clonal Protection Program
Zaera	Francisco	UCR	Surface Science Studies of CVD and ALD Processes for Ru Depo
Zeidler	James	UCSD	Robust Scheduling in Mobile Multimedia OFDMA Networks
Zhu	Xiangdong	UCD	High-throughput scanner for label-free IgG affinity assay