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Purpose of Tech Surge

Successful commercialization of university IP
  ◦ Product of world-class researchers and enormous amounts of funding
  ◦ Pre-vetted by UCI Applied Innovation staff
  ◦ Ready to mobilize
  ◦ Often already patented

Experiential education
  ◦ Learn the process of commercializing technology
  ◦ Participate in starting a venture that could turn into a viable company
Tech Surge Awards

$20,000+ ADDITIONAL PRIZE MONEY

4 AWARDS

UCI Applied Innovation

IMMERSIVE, GUIDED EXPERIENCE
Fluorescent & Redox DNA Probe

UC Case Number: 2016-927

An innovative DNA probe/tag for use in:
- performing biochemical assays
- biosensors for various diagnostic applications
- building blocks for nanowires
Graphene Nanoribbons (Polyquinolines)

UC Case Number: 2015-409

A simple, inexpensive synthetic strategy to efficiently produce scalable amounts of graphene nanoribbons for use in:

- single-molecule transistors
- organic light emitting diodes (OLEDs, which are the basis of all modern displays)
- high stability packaging for electronic devices
A proton-conducting material made of a protein found in cephalopods (squid, octopus, cuttlefish) that enables construction of:

- protein-based transistors
- proton-permeable membranes
- protonic wires

Can revolutionize medicine by enabling creation of protein-based body-compatible electronics
**Infrared Ink Inspired by Cephalopods**

UC Case Number: 2015-217

A heat reflective, energy efficient building coating material that is superior to alternatives in its:

- scalability
- cost
- biodegradability
High-efficiency Continuous Production of Medical Radioisotopes

UC Case Number: 2016-761

A technique and apparatus for high purity radioisotope production

Purest
Pure Isotope Technology
A diagnostic device for detecting malaria in saliva samples that is:

- inexpensive
- disposable
- reduced risks of blood-transmitted infection
What is malaria? Why is it so bad?

2015 WHO data:
214 million infected
438,000 deaths

Economic impact:
Total loss ~$12B/yr
Africa alone
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### UCI’s disruptive idea = Ideal RDT

<table>
<thead>
<tr>
<th>Test Characteristics</th>
<th>Microscopy</th>
<th>Available RDTs</th>
<th>UCI’s RDT</th>
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<tbody>
<tr>
<td>Invasiveness</td>
<td>☹️</td>
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<td>Speed / throughput</td>
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<td>Cost of test</td>
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<td>Sensitivity</td>
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<td>☹️ / ☹️</td>
<td>Great potential</td>
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<td>Specificity</td>
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<td>Great potential</td>
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<td>Quantitative</td>
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<td>Detect multiple <em>Plasmodium</em> species</td>
<td>☹️</td>
<td>☹️</td>
<td>Great potential</td>
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<tr>
<td>Simplicity</td>
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<td>Stand-Alone</td>
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<td>Robust &amp; Rugged</td>
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<td>Information collection, storage, analysis</td>
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<tr>
<td>Monitor evolving drug resistance</td>
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A therapeutic bandage for treating venom-induced tissue necrosis

UC Case Number: 2017-412

Brand New!

Essentially a Band-Aid for snake bites
Clinical Operations Management & Patient Analytics System (C.O.M.P.A.S.)

UC Case Number: 2016-971

A clinical operations management and patient analytics system for healthcare
Method to Characterize Cut Gemstones Using Optical Coherence Tomography

UC Case Number: 2016-275

An optical technique that provides accurate measures of gemstone weight and cut

Determines the overall quality and monetary value of cut gemstones
Protein Refolding Device for Industrial Production Of Biologics

UC Case Number: 2013-884

This rapid refolding technique for “unboiling an egg” that:
- shortens times
- lowers costs
for cancer treatments, food production and other segments of the $160 billion global biotechnology industry.
Silent Small Scale Magnetic Resonance Imaging (MRI)

UC Case Number: 2016-333

An MRI for non-invasive medical imaging that is:

- silent
- amenable to miniaturization
- less costly
Nanopatterned Artificial Cornea

UC Case Number: 2016-278

An artificial corneal implant comprised of a single, nanopatterned material that is:

- durable
- easy to implant
- protects against infection
Asthma Inhaler Compliance Using Breath Measurements

UC Case Number: 2014-673

Measures patient compliance and efficacy of inhaled medications using a method that is:
- non-invasive
- highly sensitive
Upcoming Event

DATE: Friday, December 2, 2016
TOPIC: Sizing your Market, Identifying Your Most Likely Customers, and Determining How Much They Will Pay for your Product
GUEST SPEAKER: Jerry Kornblau
SYNOPSIS: In this session, Jerry Kornblau will review tips and tricks to help start-ups: quantify the potential market for a product, research prospective customers, determine their likelihood to buy, and set the optimal price to avoid charging too little or too much.
CHECK IN: 11:30 AM
PRESENTATION: 12:00 PM - 1:00 PM

The Lunch & Learn event is an opportunity for EiRs (Experts in Residence) to engage in informal talks and Q&A's with startup teams at the Cove. The talks cover diverse topics that include Branding, Marketing, pitching mistakes to avoid, Investor Relations and Prototyping. Previous Lunch & Learn presentations are available on our SlideShare website.
Networking

SPARK IDEAS. NETWORK. FIND TEAMMATES!

I have an idea. I need teammates.

I have a team. We need an idea.

I'm looking to join a team.