

UCI's Collaboration and Commitment to OC's Startup Ecosystem

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UCI Intellectual Property

- Inventions
 - Patent
- Software
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(19) **United States**
(12) **Patent Application Publication** (10) Pub. No.: US 2020/0253493 A1
Bachman et al. (43) Pub. Date: Aug. 13, 2020

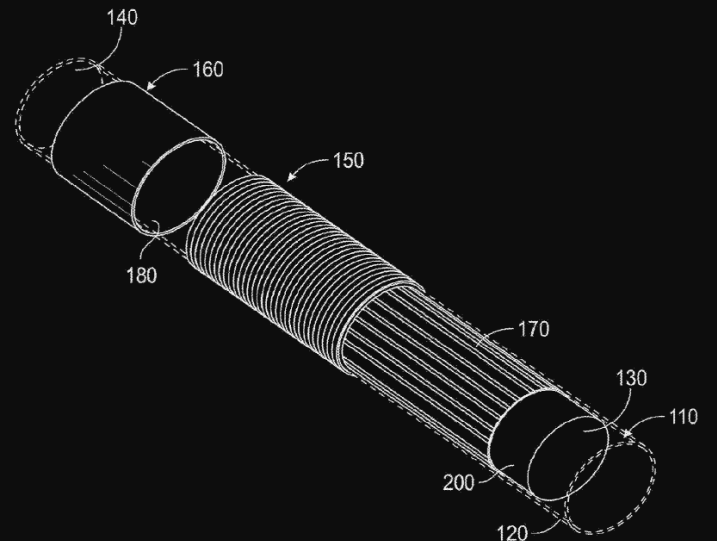
(5) **Miniature implantable wireless pressure sensor**

(72) Inventors: Mark Bachman, Irvine, CA (US); Sarkis Babikian, Irvine, CA (US); Guann-Pyng Li, Irvine, CA (US)
(2024/14 (2013.01); A61B 2302/0249 (2013.01); A61B 2562/0223 (2013.01); A61B 5/05 (2013.01)

(21) Appl. No.: 16/639,366 (57) **ABSTRACT**
(22) PCT Filed: Aug. 16, 2018
(86) PCT No.: PCT/US18/46806
§ 371 (c)(1).
(2) Date: Feb. 14, 2020

Related U.S. Application Data
(60) Provisional application No. 62/546,455, filed on Aug. 16, 2017.

Publication Classification

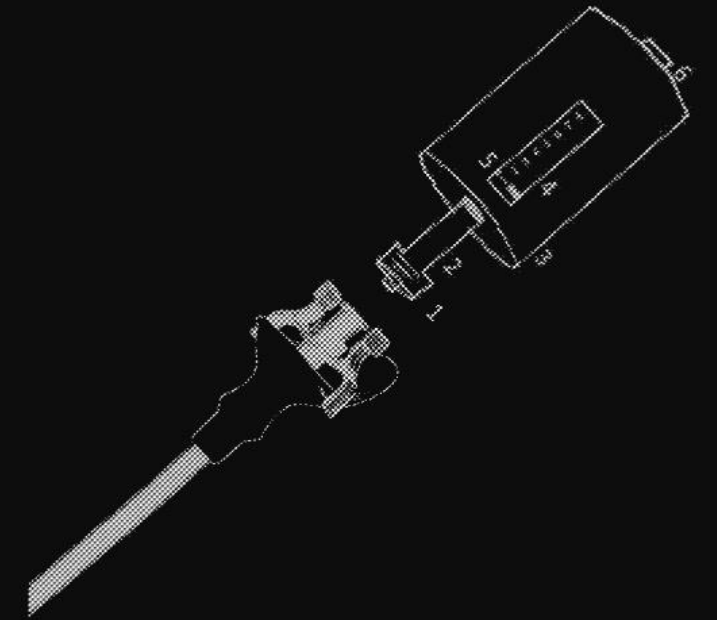


(12) **United States Patent**
Clayman et al. (10) Patent No.: US 11,389,264 B2
(45) Date of Patent: Jul. 19, 2022

(54) SAFETY URETERAL ACCESS SHEATH AND INTERVENTIONAL CATHETER INSERTION WITH INTRINSIC AND EXTRINSIC FORCE METERS (52) U.S. CL. CPC A61B 90/06 (2016.02); A61B 1/00055 (2013.01); A61B 1/00066 (2013.01); A61B 1/00128 (2013.01); A61B 1/00147 (2013.01); A61B 1/00154 (2013.01); A61B 1/307 (2013.01); A61M 25/01 (2013.01); A61B 90/92 (2016.02); A61B 2090/032 (2016.02); A61B 2090/034 (2016.02); A61B 2090/037 (2016.02); A61B 2090/064 (2016.02); A61B 2090/065 (2016.02); A61B 2090/0807 (2016.02); A61M 25/0681 (2013.01)
(71) Applicant: The Regents of The University of California, Oakland, CA (US)
(72) Inventors: Ralph Clayman, Irvine, CA (US); Kam Kaler, Huntington Beach, CA (US); Michael Klopfer, Irvine, CA (US)

Safety ureteral access sheath and interventional catheter

(*) Notice: Subject to any disclaimer, the term of this patent is extended or adjusted under 35 U.S.C. 154(b) by 632 days.
(21) Appl. No.: 16/127,996
7,654,989 B2* 2/2010 Knapp A61B 1/307 604,284
2009/0306472 A1* 12/2009 Filipi A61M 29/00 600/104
* cited by examiner



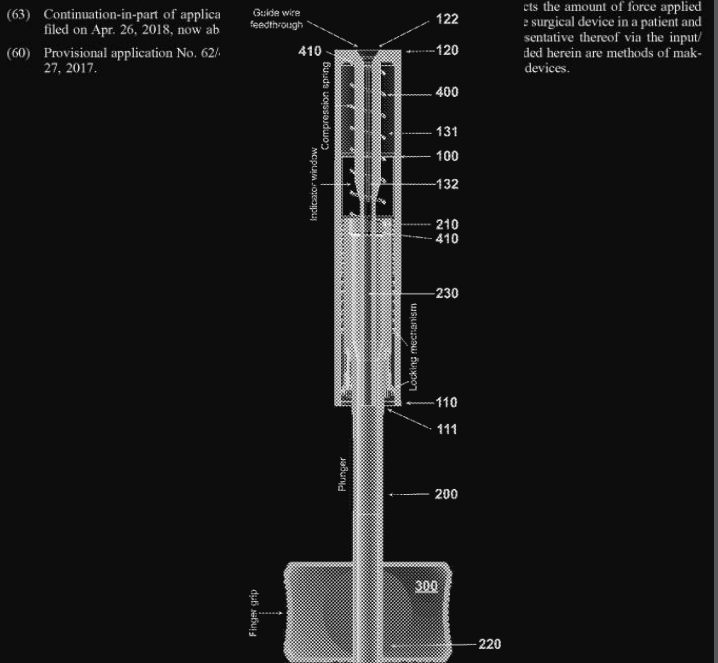
(19) **United States**
(12) **Patent Application Publication** (10) Pub. No.: US 2022/0126066 A1
Clayman et al. (43) Pub. Date: Apr. 28, 2022

(54) **FORCE AND LOAD SENSOR AND MONITORING DEVICE FOR DEFFING** **Publication Classification**
Force and load sensor and monitoring device

(72) Inventors: Ralph V. Clayman, Orange, CA (US); Kamaljit S. Kaler, Orange, CA (US); Jamie Landman, Orange, CA (US); Michael John Klopfer, Irvine, CA (US); Guann-Pyng Li, Irvine, CA (US)
(2016.02); A61M 25/0681 (2013.01); A61M 25/0017 (2013.01); A61B 2090/064 (2016.02); A61M 25/0105 (2013.01)

(21) Appl. No.: 17/570,776 (57) **ABSTRACT**
(22) Filed: Jan. 7, 2022
Various embodiments herein comprise a handheld load sensing device. In one embodiment, the device comprises a force sensor (e.g., a mechanical spring or an electromechanical load cell) adapted to receive a force, an input/output interface, and an adjustable attachment mechanism adapted to a device. In another embodiment, the amount of force applied to a surgical device in a patient and sensitive thereof via the input/output interface are methods of making devices.

Related U.S. Application Data
(63) Continuation-in-part of application filed on Apr. 26, 2018, now abandoned.
(60) Provisional application No. 62/27, 2017.



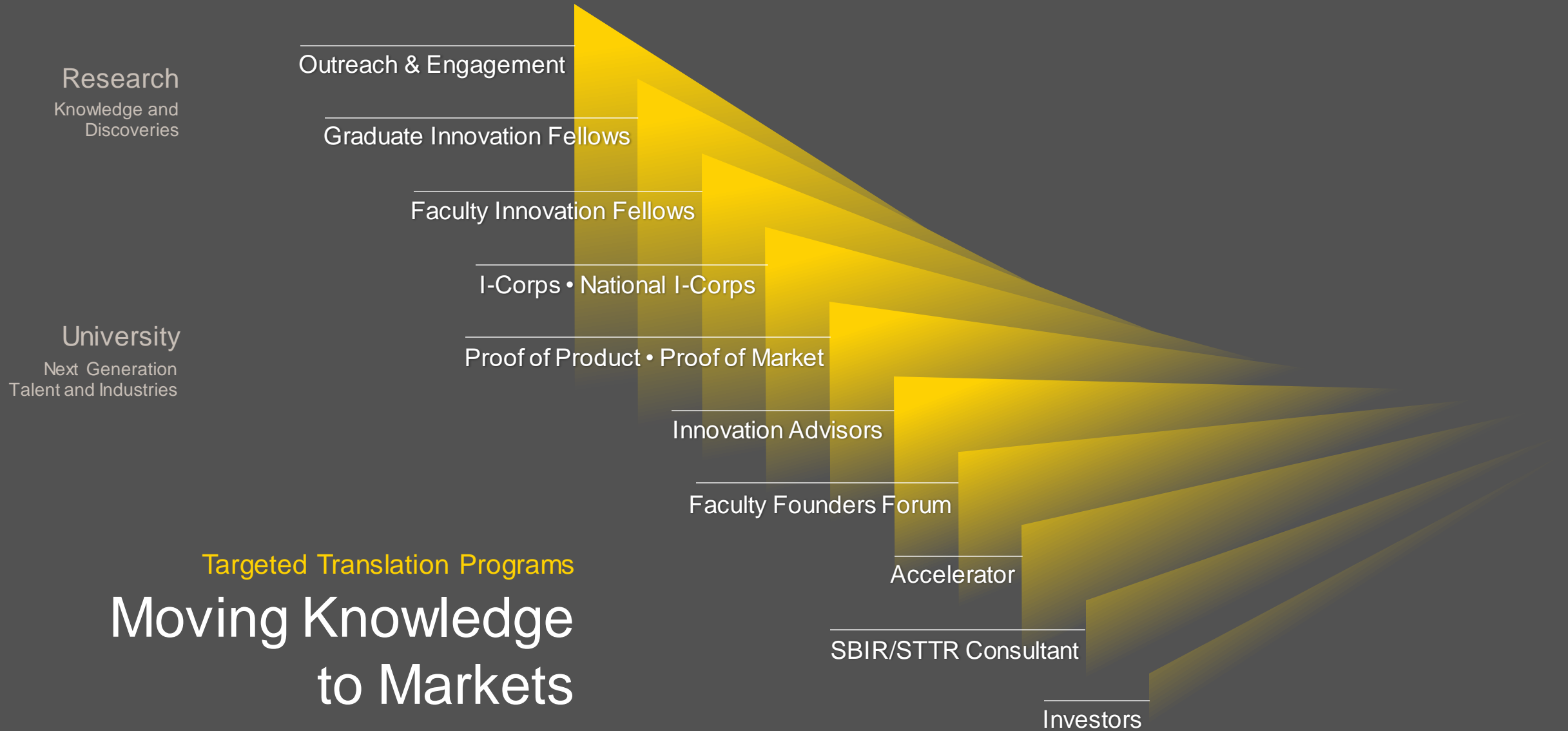
Available Technologies

New and established companies can access leading-edge ideas and technology developed in the dynamic R&D environment of UCI.

Research Translation Group

Search

Moving Knowledge to Markets



iCorps

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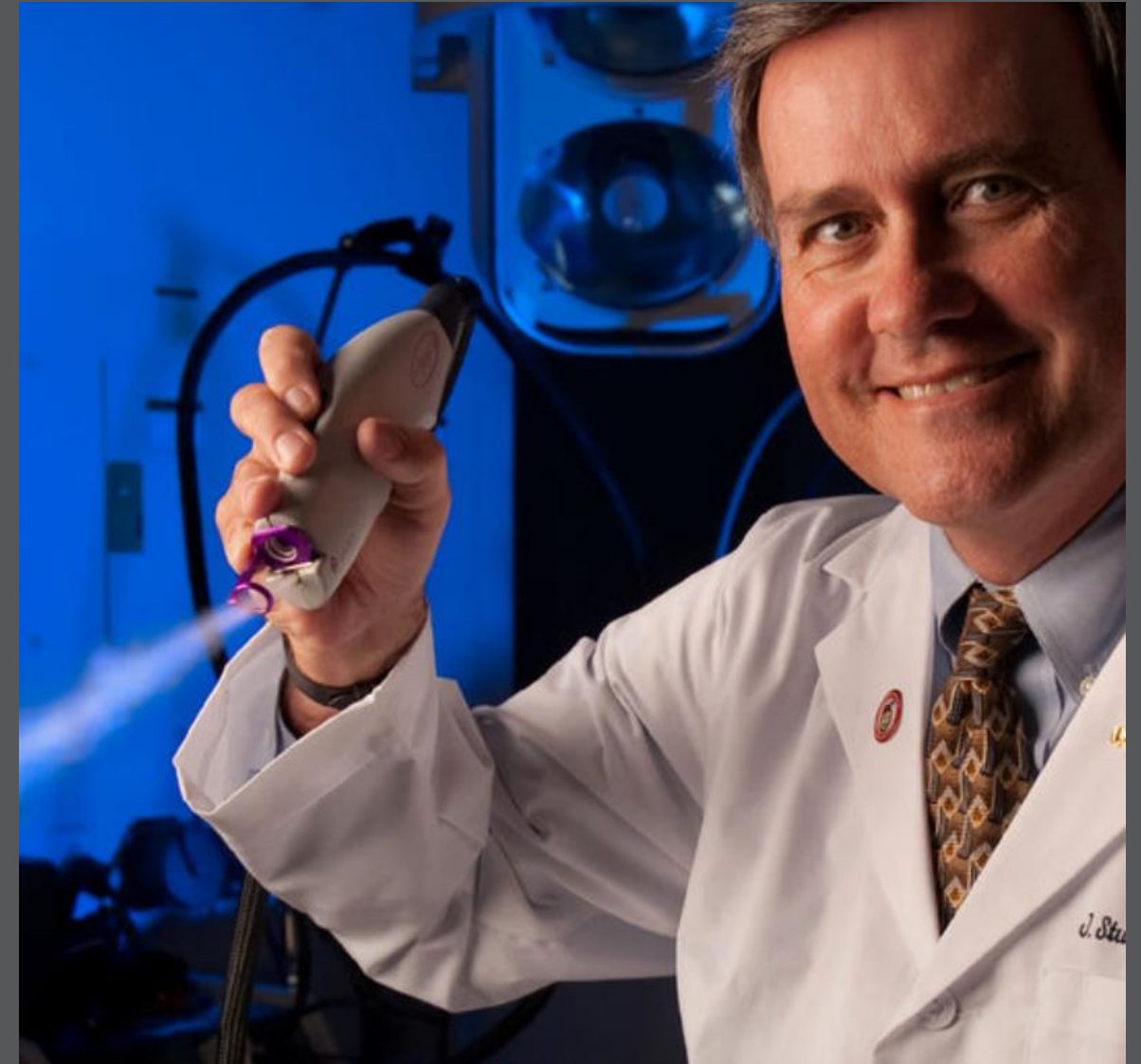
- No cost course
- Funded by NSF
- Offered every month at “The Cove”
- Each course lasts one week
 - MWF 4-7pm
- Customer discovery-based curriculum



Who are your customers?

What do they want?

Talking and listening to your customers help you understand what is important to them.



CBINSIGHTS

Top reasons startups fail

Ran out of cash/failed
to raise new capital



38%

No market need



35%

POP Grants

A close-up photograph of a person wearing blue nitrile gloves. They are using a white and clear pipette to transfer a small amount of liquid into one of the wells of a purple multi-well plate. The plate is sitting on a blue base. The background is slightly blurred, showing a laboratory setting.

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Manuel Gamero-Castano

School of Engineering

Electrospray Thruster System for SmallSats

Petra Wilder-Smith

School of Medicine & Beckman Laser Institute

Oral and Oropharyngeal Cancer Screening

Camera

Jeff Krichmar

School of Social Sciences

CARLSim: A Framework for Large-Scale Detailed

Spiking Neural Network Development

Mark Warschauer

School of Education

Papyrus AI: an intelligent Writing Coach for K-12

Schools

Huolin Xin

School of Physical Sciences

Ultrathin polymer electrolyte for high energy density, all-solid-state lithium batteries

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The Startups







Respiratory Monitor

A small, disposable, Bluetooth device that can accurately and directly track respiration.

Wearable Patch Sensor

accurately monitors patient's respiratory vitals in real time through our mobile platform



Continuous Non-Invasive Blood Pressure Monitoring







A Place for Startups

- Physical space at “The Cove”
 - Shared space
 - Cubicle
 - Office
- Prototyping Lab
- Workshops
- Networking events
- Strategic guidance/Mentorship



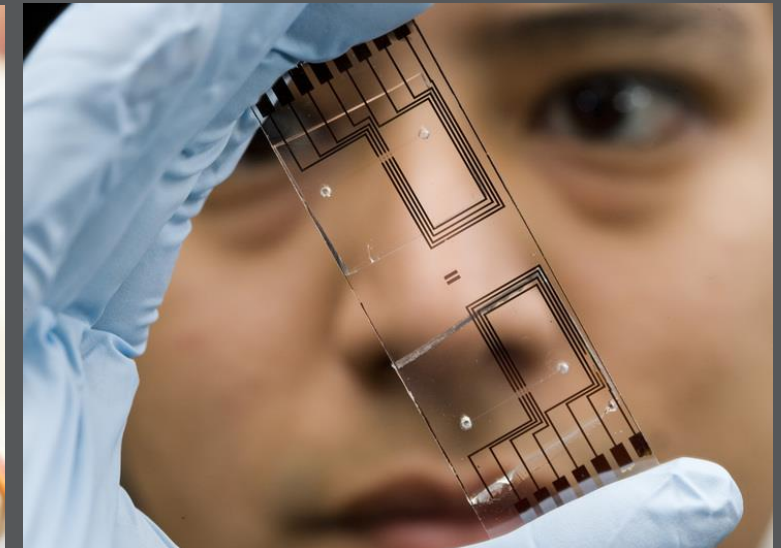
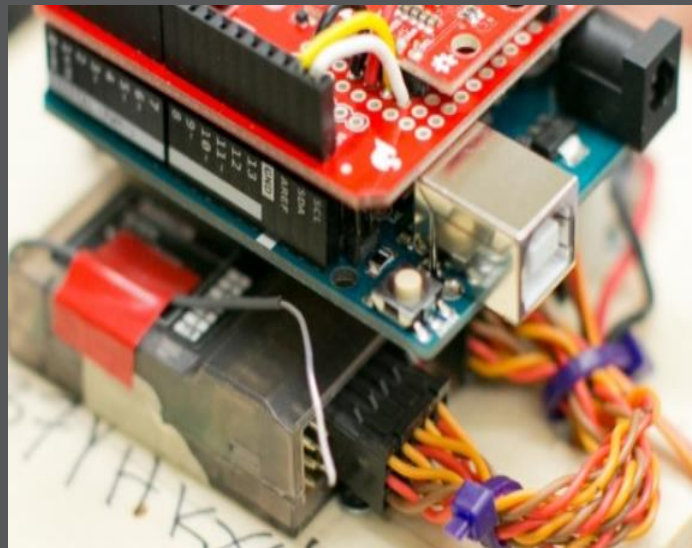
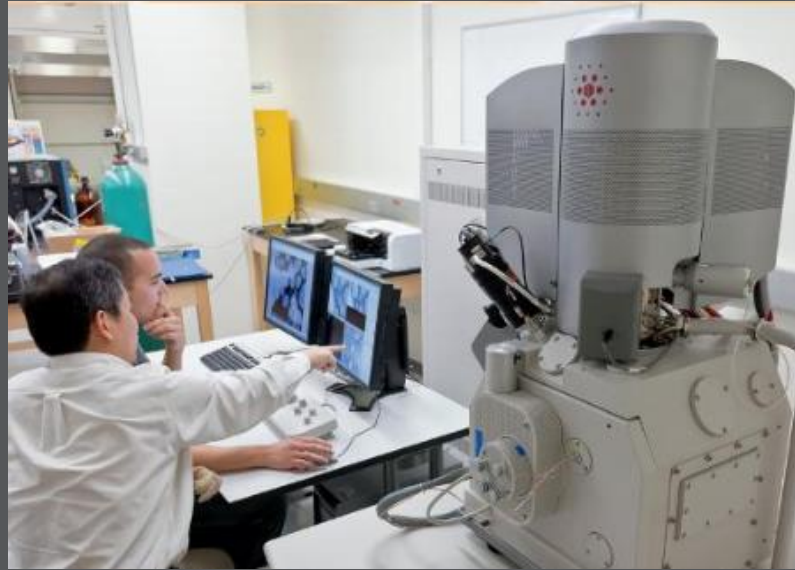
University Lab Partners (ULP) at “The Cove”

- For rent, non-profit
- Wet Lab facilities for startups
- Equipment:
 - Fume Hoods
 - Cold Storage
 - Chemical Storage
 - Centrifuges
 - Prototyping/Fabrication
- UCI or non-UCI affiliated companies



CalIT2 TechPortal facilities:

- Bio-Organic Clean Room Facility
- FabWorks
- Integrated Nanosystems Research Facility
- Materials Characterization Center
- Microscopy Center
- Microsemi Innovation Lab



Thank you!

UCI's Collaboration and Commitment to OC's Startup Ecosystem

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Appendix Slides

Investors

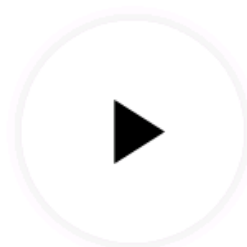
VCs & Angels who have offices at “the Cove”:

- Tech Coast Angels
- The Cove Fund III
- Auctus Global Capital
- Vertical Venture Partners
- Hamamatsu Ventures



UCI MedDev Successes

NeoMedix™
TRABECTOME®
micro-surgical management of adult & infantile glaucoma



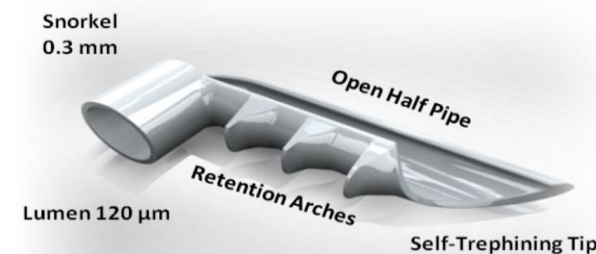
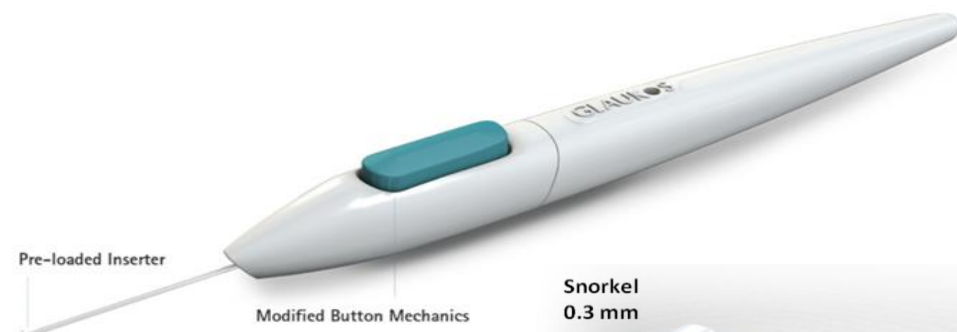
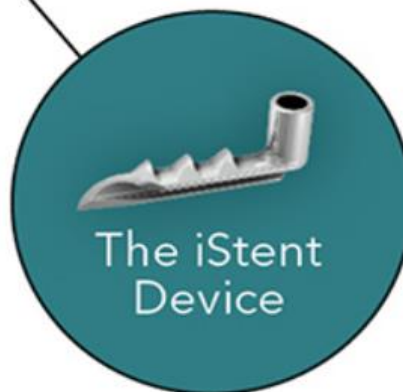
...micro-surgical management
of adult & infantile glaucoma



GLAUKOS®

A Tiny Medical Implant

iStent's® small design can bring big results in helping manage your eye pressure.





SYNERON  CANDELA®

Who will advise you?

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 - Access to capital/investors
 - Regulatory consulting
- SBIR/STTR consulting
 - Fund your startup with “America’s Seed Fund”
- UCI or non-UCI affiliated entrepreneurs/companies



Thank you!

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