

BIO\$APIEN™

BioSapien provides solutions for
therapeutic drug delivery and tissue engineering
using innovative 3D printing techniques.

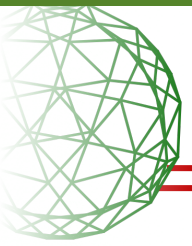
Joseph Borrello, BEng
CTO



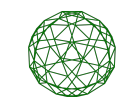
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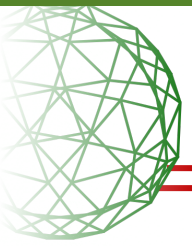


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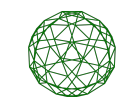


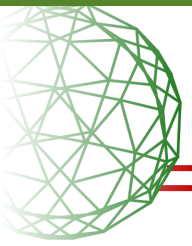
Disease begins locally...



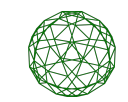
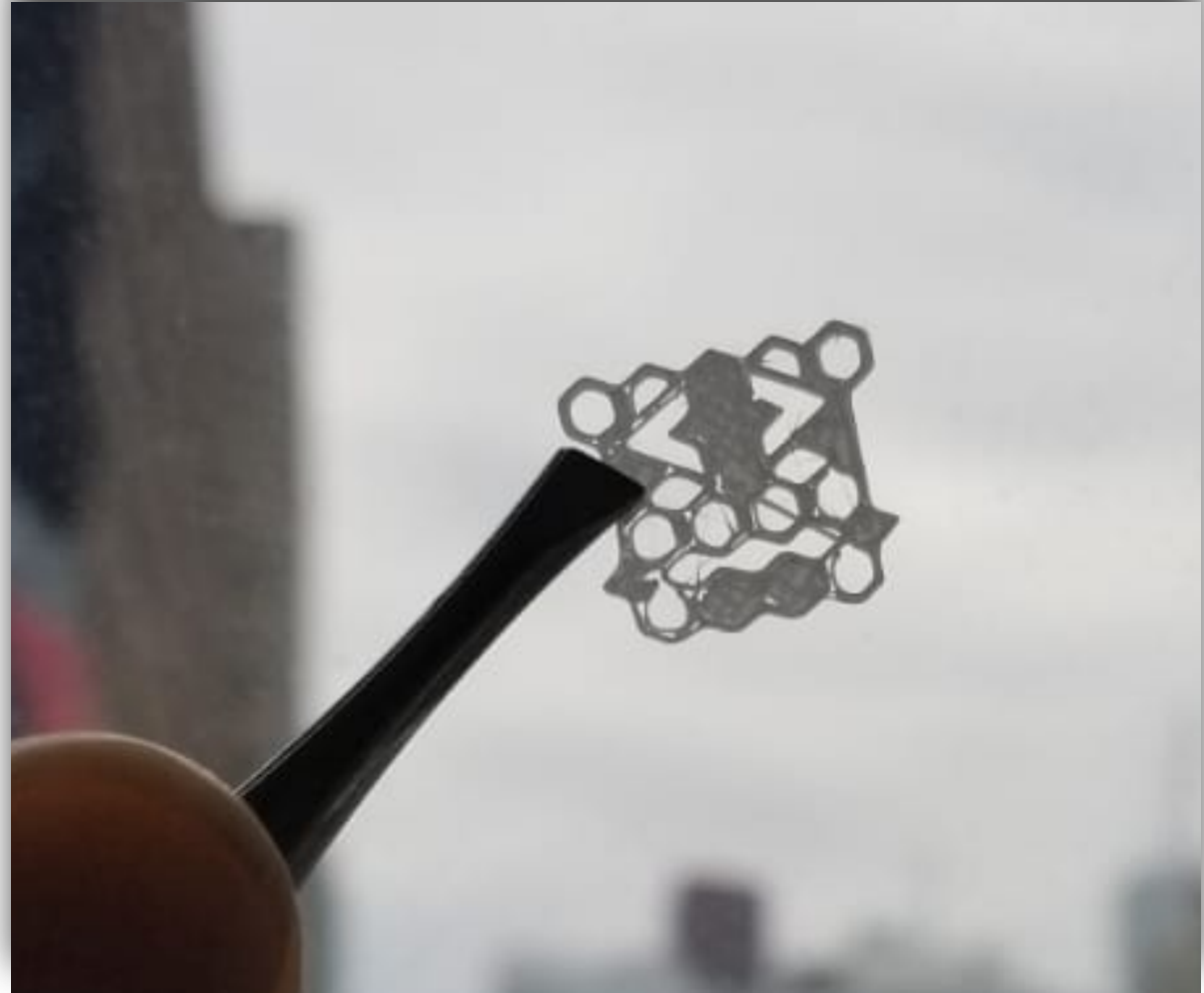


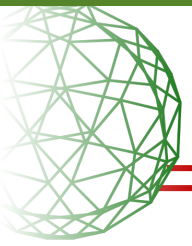
...but treatment is given systemically



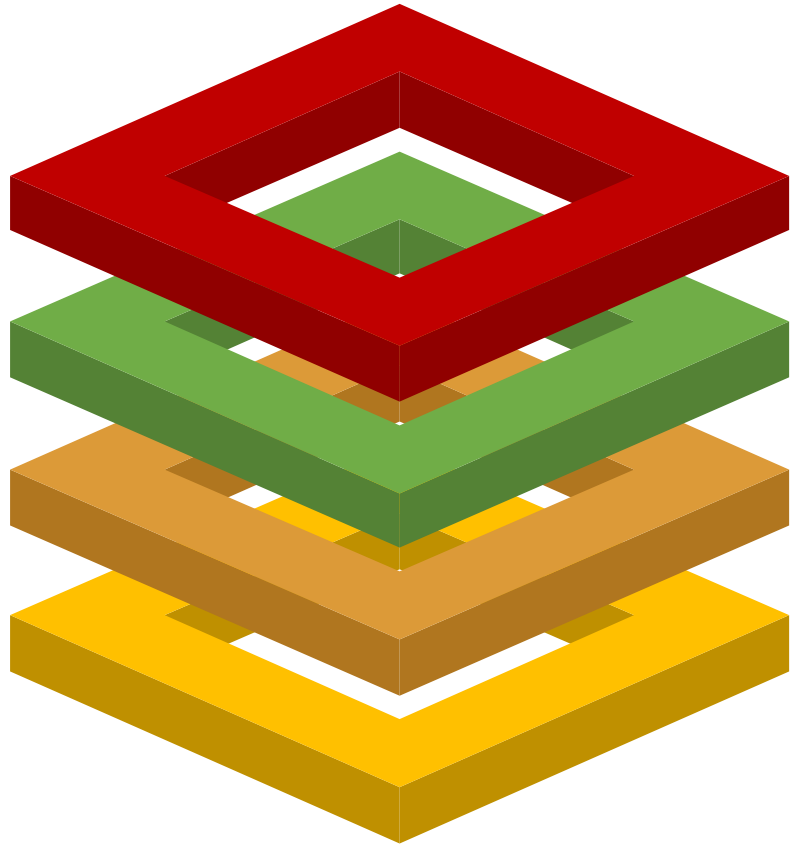


Therapeutics in a biodegradable implantable mesh; MedChip

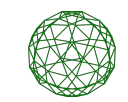


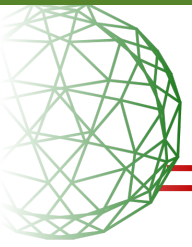


The Solution: MedChip, 3-D printed drug delivery mechanism



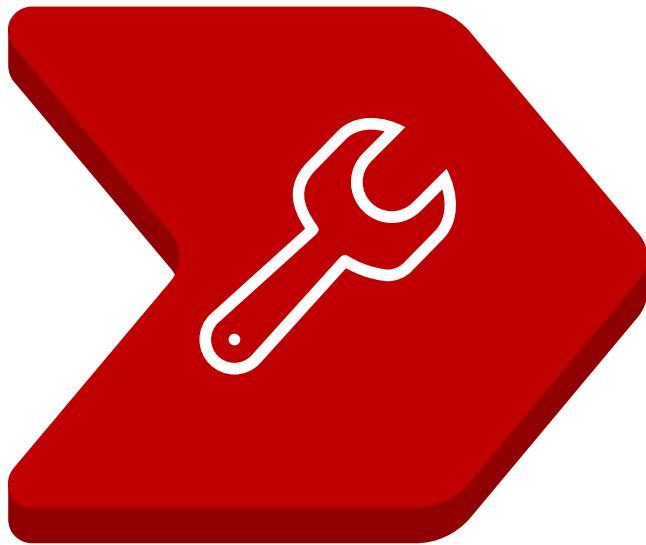
- 3D structure consists of multiple layers of mesh configured to meet the requirements of the implantation site
- Release of therapeutic agent can be tuned to meet the dosing requirements of the therapeutic and the indication
- MedChip/therapeutic combinations to be explored:
 - Oncology
 - Pain medications/opioids
 - Anti-inflammatories
 - Hormones



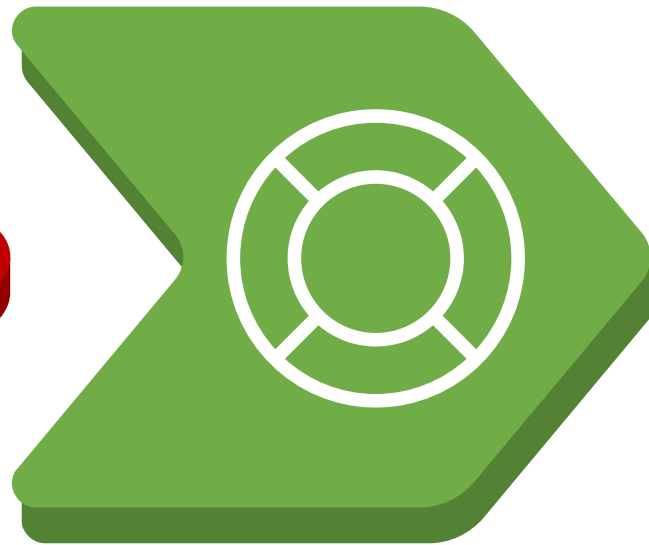


MedChip Benefits

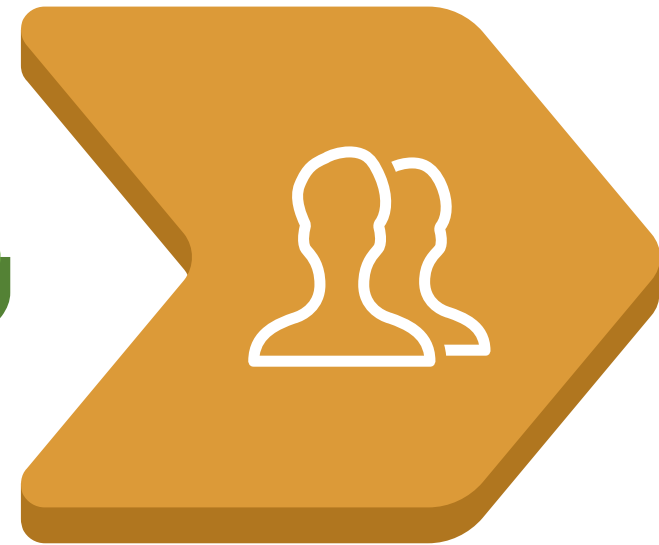
- Localized slow release (1mo to 5yrs) at target tissue translates into:



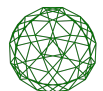
Enhanced therapeutic effects:
Longer duration of action by
released drug

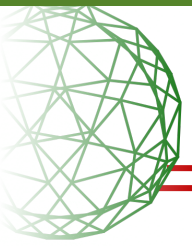


Reduced hospital visits and
complications from systemic
effects



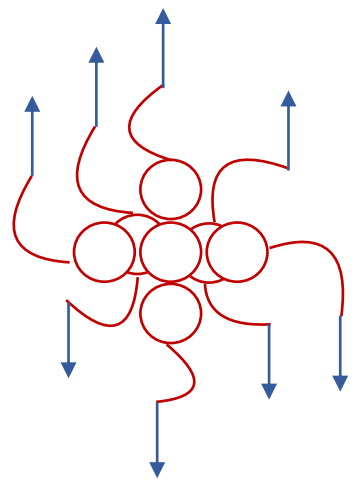
Increased patient compliance and
improved quality of life





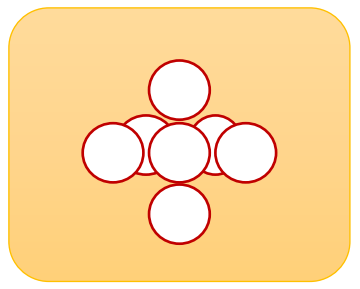
MedChip: The Science

Other polymers

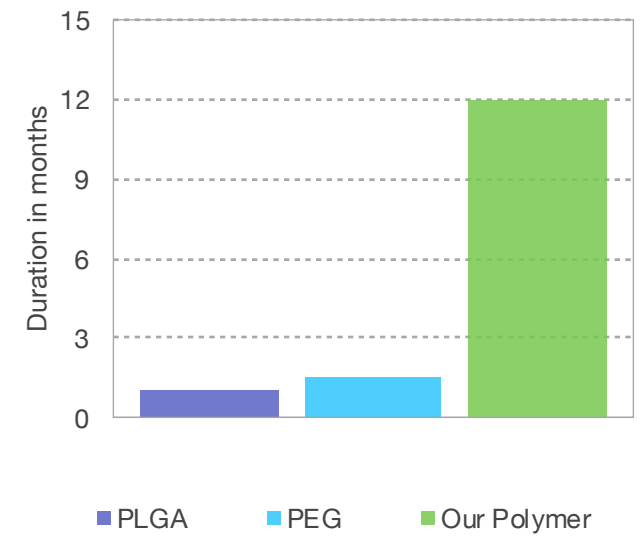


PLGA (polylactic-co-glycolic acid)
PEG (polyethylene glycol)

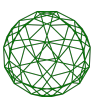
Our polymer



Comparison of duration as reported*



*Peer-reviewed articles: 2014 Azimi et al., 2017, Magarkar et al., 2017 Leelakanok et al., (proof of concept in-vitro completed through peer-review)





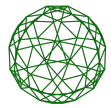
MedChip: Competitors

> 90 days
drug
release

Functionality in
acidic
environment

3-D printed/
customizability

Drug-
eluting



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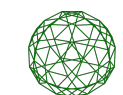
SYNBIOSYS
MOUNTAIN VIEW, CA



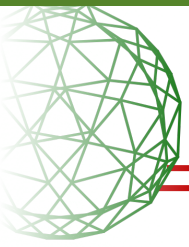
Silenseed



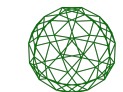
POLYPID

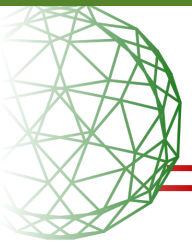


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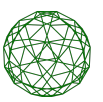
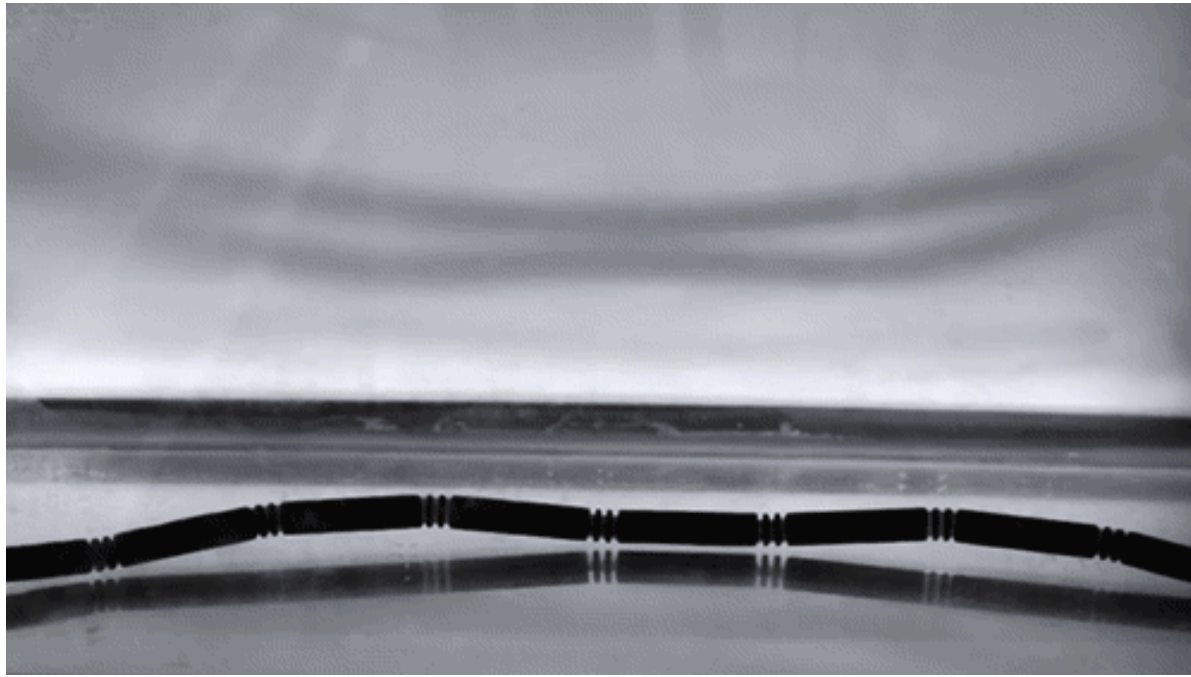
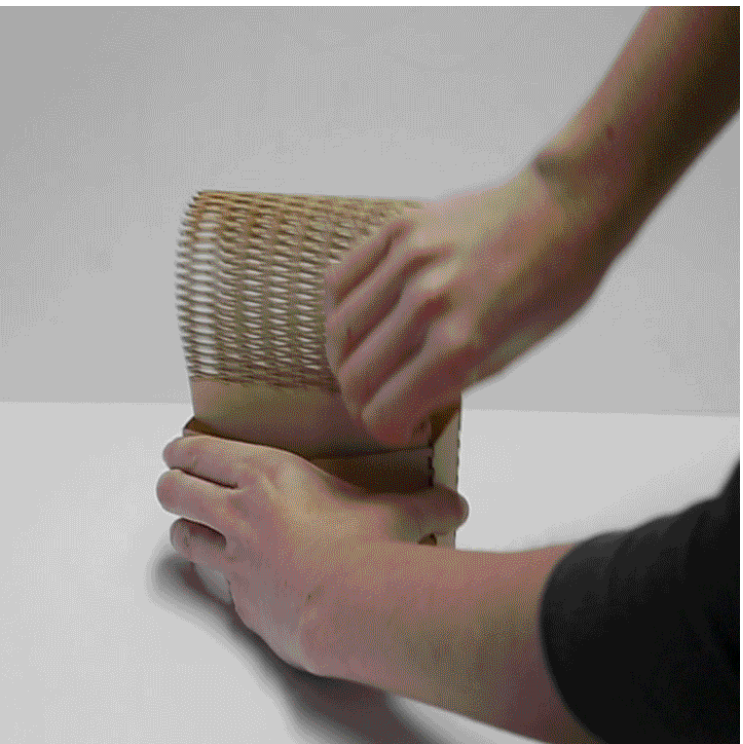


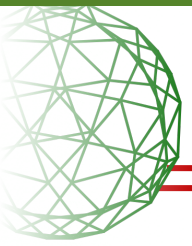
The future of *Physical* Digital Platforms



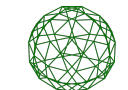
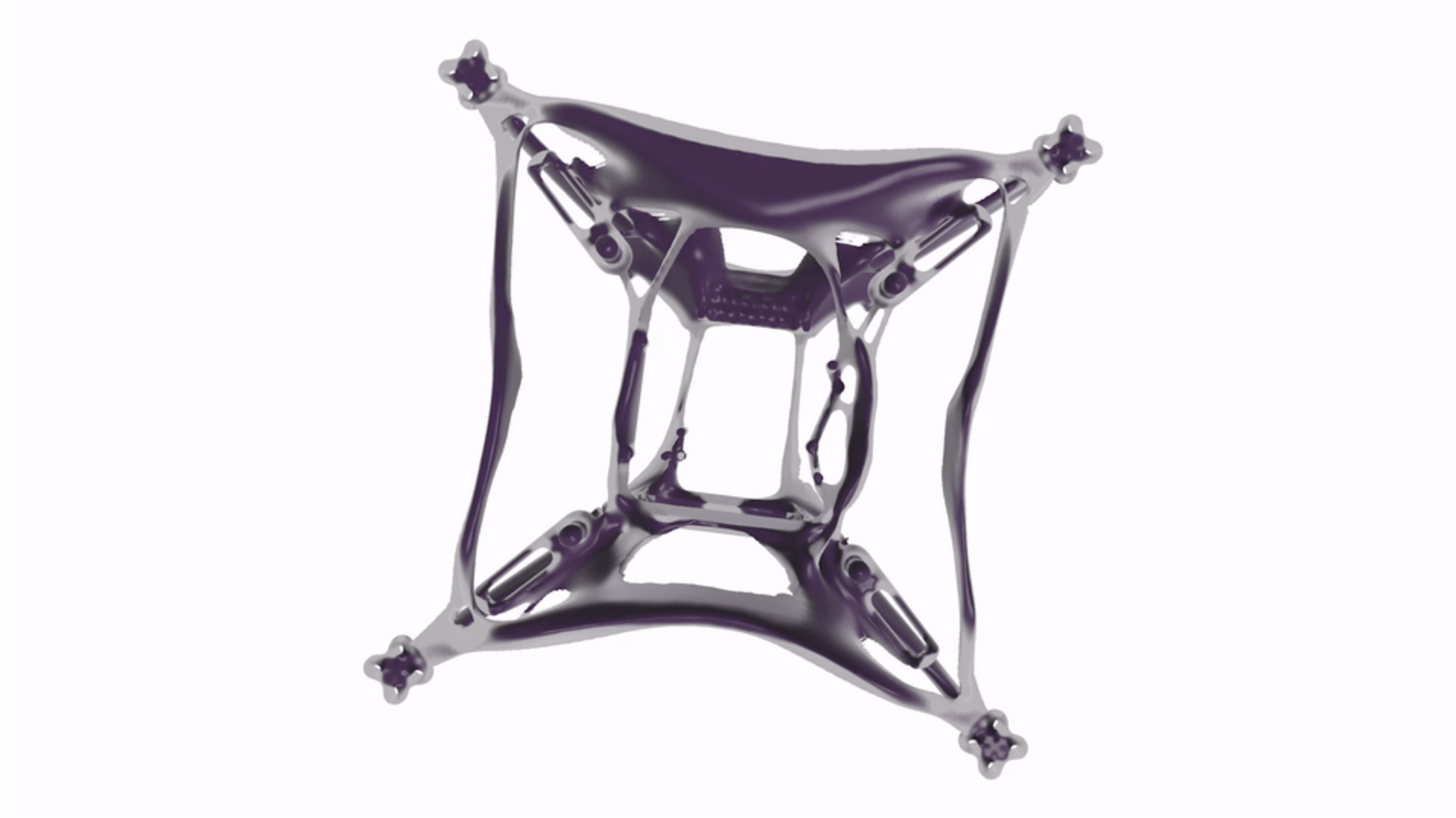


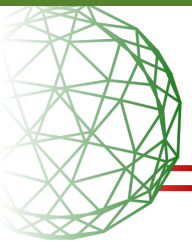
The *way* we produce materials is as important as the materials themselves



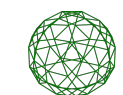


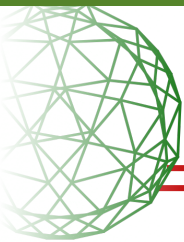
Digital innovations are opening new design opportunities





New platforms enable new innovations





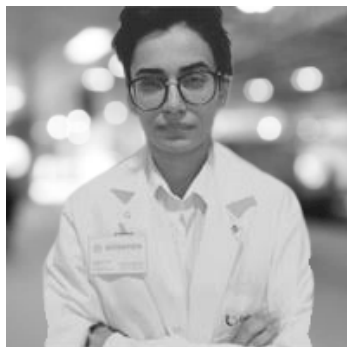
The Team

Management Team



- CTO
- Former CEO of DynamiCal
- 3D printing expert
- PhD in BME

Joseph Borrello, BEng



- CEO
- Inventor of MedChip technology
- Serial entrepreneur

Khatija Ali MD



- Director of Communications

Abbas Khan

Advisors

Abhishek Gupta,
Senior Director of Strategy and Portfolio at Pfizer

Hubert Zajicek MD MBA,
CEO of Health Wildcatters

Martin Krusin MBA
Vice-President, Finance and Business Development at AzurRx BioPharma

Nancy McKay,
Regulatory affairs at Pfizer

Travis Millman,
Strategic Advisor at Philips

Joshua Barer,
Managing Director at Barer & Son Capital

Heather Harrick,
CEO at Harrick Plasma

Collaborations



College of
Pharmacy

Real world. Real excellence. Real impact.

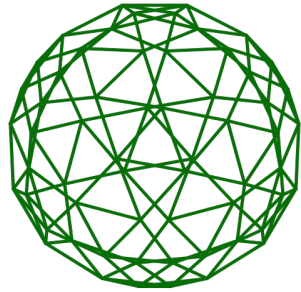


ENTREPRENEURSHIP LAB
BIO AND HEALTH TECH NYC



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Thank you!

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