



# 2016 Brocher Workshop

## ***3D BIOPRINTING: A New Medical and Ethical Frontier?***

There has been a recent surge in the use of three-dimensional biomaterial printing (3D bioprinting) for a wide range of innovative experimental therapeutic applications ranging from orthopedic patient-specific transplants to custom-made biodegradable bronchial implants. This symposium aims to map and critically assess new medical and ethical frontiers associated with 3D bioprinting by drawing upon the expertise of various doctors, bioethicists, scientists, and policy analysts.

**Brocher Foundation  
in Geneva, Switzerland  
on May 24-26, 2016**

Images from: <http://www.brocher.ch/content/galleries/16/l/baner-1.jpg>; <http://i.huffpost.com/gen/1189895/images/o-GENEVA-facebook.jpg>; <https://spark.auto-desk.com/sites/default/files/blog/primary-image/bioprinting.jpg>



**FONDATION  
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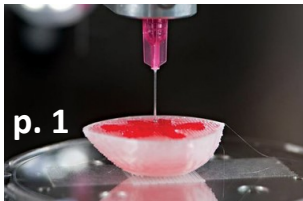


ARC Centre of Excellence for  
Electromaterials  
Science



Australian Government  
Australian Research Council





Brocher Foundation Workshop

# 3D Bioprinting: A New Medical and Ethical Frontier?

Fondation Brocher, Route d'Hermance 471, 1248 Hermance, Switzerland  
May 24 to 26, 2016

## PROGRAM

### Day 1: May 23, 2016

*For speakers and participants staying at the Brocher Foundation*

2:00 pm to 7:30 pm	Registration and check-in at the Brocher Foundation
7:30 pm to 9:30 pm	Welcome Dinner

### Day 2: May 24, 2016

9:00 am to 9:15 am	Welcome Remarks and Introduction
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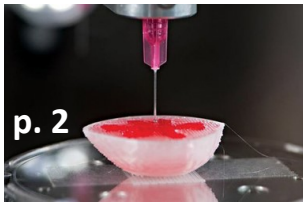
#### State of the Art Session

9:15 am to 9:45 am	<b>Dr. Alan Faulkner-Jones</b> (Heriot-Watt University) <i>Making omelettes without breaking eggs</i>
9:45 am to 10:15 am	<b>Prof. Raphael Devillard</b> (University of Bordeaux ) <i>Laser assisted bioprinting for regenerative medicine: applications and challenges</i>
10:15 am to 10:45 am	<b>Dr. Phoebe Li</b> (Sussex University) <i>3D Bioprinting Technologies: Patents, Innovation and Access</i>
10:45 am to 11:00 am	Break
11:00 am to 11:30 am	<b>Dr. Frederic Gilbert and Mr. John Noel Viaña</b> (University of Tasmania) <i>Enthusiastic Portrayal of 3D Bioprinting in the Media</i>
11:30 am to 12:15 pm	Panel Discussion
12:15 pm to 1:30 pm	Lunch

#### Clinical Trial Concerns Session

1:30 pm to 2:00 pm	<b>Prof. Nancy King</b> (Wake Forest University) <i>So What Else Is New? Comparing Ethical Issues in Clinical Translation of 3D Bioprinting With Other Novel Regenerative Biotechnologies</i>
2:00 pm to 2:30 pm	<b>Dr. Michelle Habets</b> (Erasmus University Rotterdam) <i>Participant selection for 3D Bioprinting trials: ethical challenges of selecting individuals at risk</i>
2:30 pm to 3:00 pm	<b>Dr. Leen Trommelmans</b> (KU Leuven) <i>3D Bioprinting- ethical issues from the perspective of NEST-ethics</i>
3:00 pm to 3:45 pm	Panel Discussion
7:00 pm to 9:00 pm	Dinner





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Day 3: May 25, 2016

### Ethical and Societal Impact of 3D Bioprinting Session

9:00 am to 9:30 am	<b>Prof. Ruth Chadwick</b> (Cardiff University) <i>3D bioprinting: the ultimate in personalised medicine?</i>
9:30 am to 10:00 am	<b>Prof. Samia Hurst</b> (University of Geneva) <i>3D Bioprinting &amp; Allocation Resources</i>
10:00 am to 10:30 am	<b>Prof. Susan Dodds</b> (University of New South Wales) <i>Ethical challenges for 3D Bioprinting: organ replacement vs. function?</i>
10:30 am to 10:45 am	Break
10:45 am to 11:15 am	<b>Dr. Alexandre Eler and Prof. Vincent Müller</b> (American College of Thessaloniki) <i>The human body in the age of mechanical reproduction: some ethical concerns of 3D bioprinting</i>
11:15 am to 12:00 noon	Panel Discussion
12:00 noon to 1:30 pm	Lunch

### 3D Bioprinting and Beyond Session

1:30 pm to 2:00 pm	<b>Prof. Rob Sparrow and Dr. Katrina Hutchison</b> (Monash University) <i>Artificial organs, contract, and consent</i>
2:00 pm to 2:30 pm	<b>Prof. Klaus Hoeyer</b> (University of Copenhagen) <i>3D Human production: reflections on the maker and the made</i>
2:30 pm to 3:00 pm	<b>Dr. Bernard Baertschi</b> (University of Geneva) <i>Technical and metaphysical risk in 3D Bioprinting</i>
3:00 pm to 3:45 pm	Panel Discussion
3:45 pm to 4:00 pm	Closing Remarks (can also be held in the morning of the 26th)
7:00 pm to 9:00 pm	Dinner

Day 4: May 26, 2016

9:00 am to 11:00 am	<b>Special Session</b> <i>Optional discussion regarding Journal special issues? Edited volume? Edited book?</i>
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Image Source: <https://spark.autodesk.com/sites/default/files/blog/primary-image/bioprinting.jpg>