

Chaire en Biothérapie de l'Association Canadienne du Médicament Générique (ACMG) et Biosimilaires Canada

Davide Brambilla, PhD

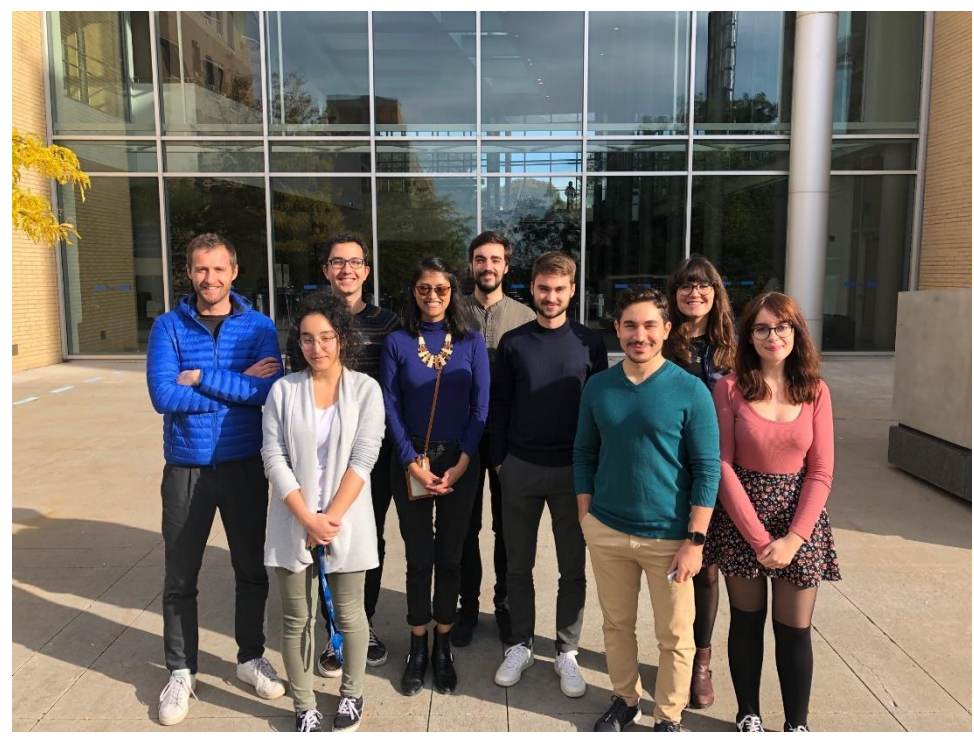
November 27th 2019

Biosimilars Canada
The Voice of Biosimilar Medicines in Canada



Overview on 2018-2019

Le laboratoire



www.brambillaudem.com

- Dr. Mahdi Roonikhan:** Post-doc, Chemical Engineer, McGill
- Sam Bability:** PhD student, Chemist, Concordia
- Philippe Delbreil:** PhD student, Pharmacy, Geneva
- Fatma Moawad:** PhD student, Pharmacy, Cairo University
- Elise Lazslo:** MSc, Physico-Chemist, Lorraine
- Carolina Penaloza:** MSc, Biologist, Molecular biology, Bogotá
- Giorgio Sala:** MSc international, Biotechnology, UniMIB, Milano
- Silvia Garau:** MSc international, Pharmacy, UmiMi, Milano
- Omaima Ghafoud:** Undergrad, BSBP

Cloé Esposito: PhD (Sylvie Marleau)

2 more grad students
(1MSc, 1PhD)



Overview 2018-2019

Granted funding proposals:

1. Research Tools and Instruments Grants Program, NSERC, PI, (135k\$)
2. RQRM, PI (18.5k\$)
3. IRSC (sole Co-investigator), (670k\$) (30%)

Funding proposals, under revision:

1. Canadian Institutes of Health Research (CIHR), ICM, Project Grant, (650 k\$)
2. Alzheimer's Society Canada (225 k\$)
3. FRQS; Chercheur Boursier (200 k\$)
4. SiliCycle Inc. (*Collaboration 3 more profs*) (308 k\$)
5. FRQ-NT equipe, PI (180k\$)
6. FRQ-NT equipe, co-investigator (180k\$)

1. Phospholipid Research (Germany, 175 KEuro), deadline November 30th
2. G3 Projects, UGeneva-ULB-UdeM, summer school

PDF fellowships:

1 FRQ-nt

PhD/Maitrise:

2 Faculté de Pharmacie

1 NSERC

2 TransMedTech

1 FRQS

Publications: November 2018 – November 2019

1. *A snapshot of transdermal and topical drug delivery research in Canada.* M Roohnikan, E Laszlo, S Babity, D Brambilla, *Pharmaceutics* 11 (6), 256.
2. *Minimally invasive method for the point-of-care quantification of lymphatic vessel function.* Anna K Polomska, Steven T Proulx, Davide Brambilla, Daniel Fehr, Mathias Bonmarin, Simon Brändli, Mirko Meboldt, Christian Steuer, Tsvetina Vasileva, Nils Reinke, Jean-Christophe Leroux, Michael Detmar. *JCI insight* 4 (4).
3. *Rational design of a fluorescent microneedle tattoo for non-invasive monitoring of lymphatic function.* Samuel Babity, Anna Polomska, Frederic Couture, Mattias Bonmarin, Daniel Fehr, Michael Detmar and Davide Brambilla. Submitted, *Small*.
4. *Moving Forward Responsibly in Nanotechnology Enabled Plant Agriculture.* Thilo Hofmann*, Gregory Lowry*, Subhasis Ghoshal, Nathalie Tufenkji, Davide Brambilla, John Dutcher, Leanne Gilbertson, Juan Pablo Giraldo, Matt Kinsella, Markita del Capiro Landry, Wess Lovell, Rafik Naccache, Mathews Paret, Joel Pederson, Jason Unrine, Jason White, Kevin Wilkinson. Submitted, *Nature Food*.



Overview on 2018-2019



Editorial activity: Guest editor for Special Issue (Nanocarriers for Diagnostics, Imaging, and Drug Delivery: Critical Perspectives on Materials, Technologies, in Vivo Fate) of *Molecules*.

Peer-revision: Revision of over 25 original articles and reviews for international journals (J. Control Release, Small, Advanced Materials, Advanced Materials Technologies, Nanoscale Research Letters, etc.)

Presentations: overall 14 presentations at local, national and international simposia (3 orals, 11 posters)

External event organization: Chair of Biomaterials and drug delivery session CRS/CSPS joint meeting (21-24 May 2019, Vancouver), Session of 3D printing in pharmaceutical sciences at the PWC2020. Networking evening of the CC-CRS (Monday 25th 2020).

Committee member:

- a. Member of FRQ-NT PhD Fellowships (multidisciplinary) selection committee.
- b. Expert reviewer for Natural Sciences and Engineering Research Council of Canada (NSERC), Strategic Partnership Grants and Innovation Grants competition.
- c. Member of NSERC Canada Graduate Scholarships-Program selection committee.
- d. Auto-evaluation committee for Bachelor in Pharmaceutical and Biopharmaceutical Sciences, Faculté de Pharmacie, Université de Montréal.
- e. External evaluator for ETH Zurich Research Commission Grants.
- f. External evaluator for Fundação para a Ciência e a Tecnologia, Portugal Foundation for Science and Technology.
- g. University of Montreal students' thesis jury member (1 PhD, 2 MSc, 2 pre-Doc).
- h. University Laval students' thesis jury member (2 MSc).
- i. McGill University students' thesis jury member (1 PhD)

Memberships:

Secretary of the Canada Chapter of the Controlled Release Society and Member of the International Representative Committee of the Controlled Release Society. Controlled Release Society (2012-2019), Canadian Society for Pharmaceutical Sciences, Canada Biomaterial Society, American Chemistry Society, Canada Lymphedema Society.

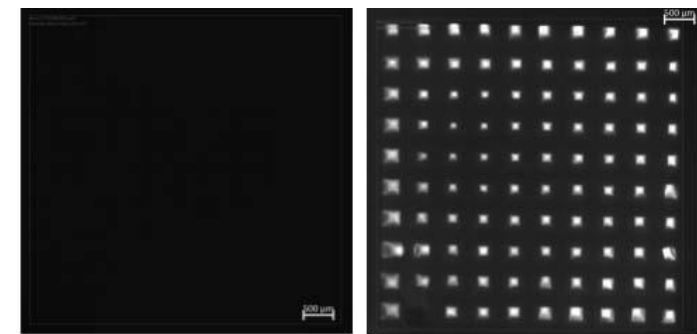
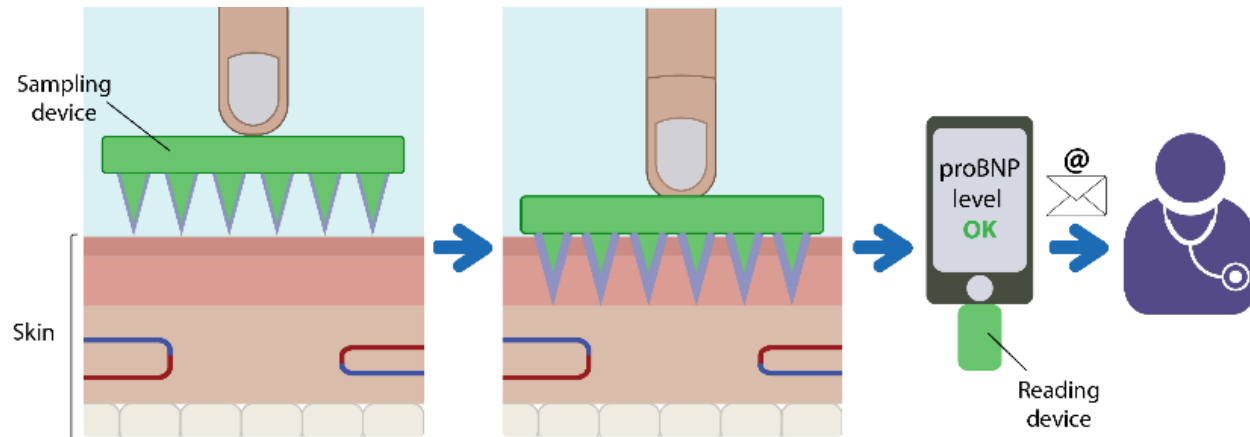
Classes:

Mostly chemistry labs

Projects overview

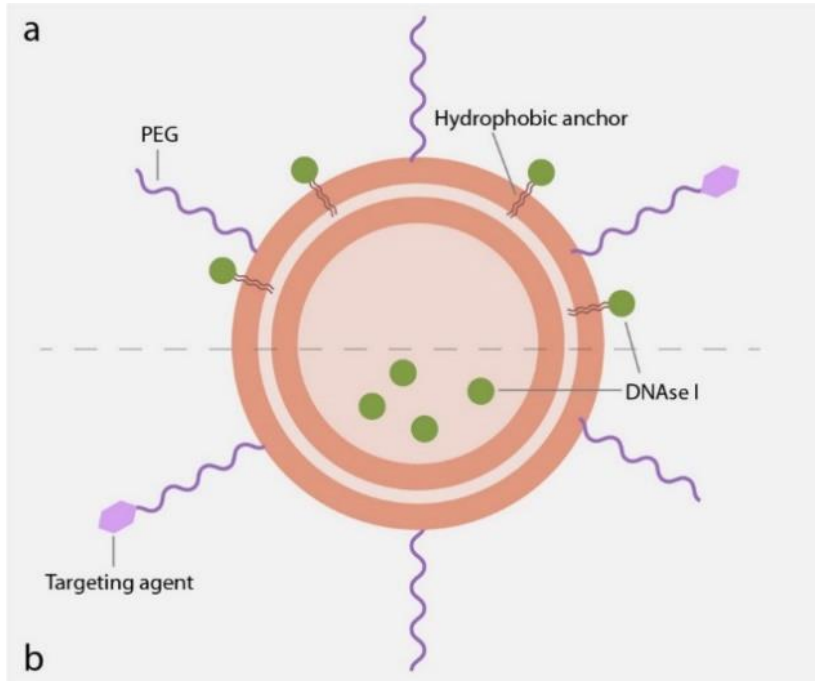


Sam,
 Medical micro-tattoo

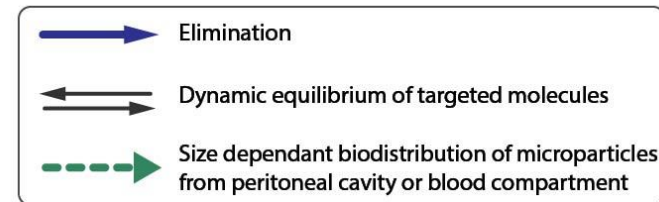
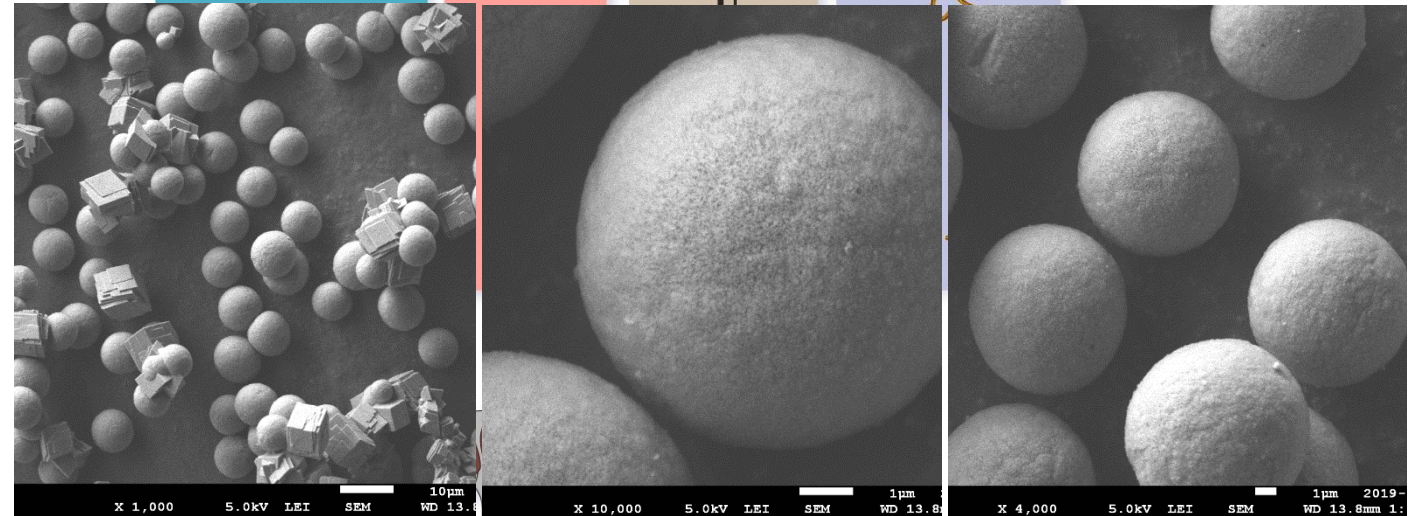
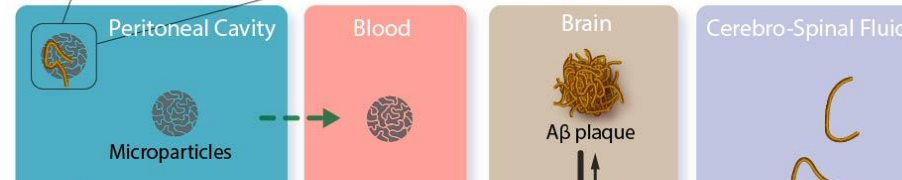
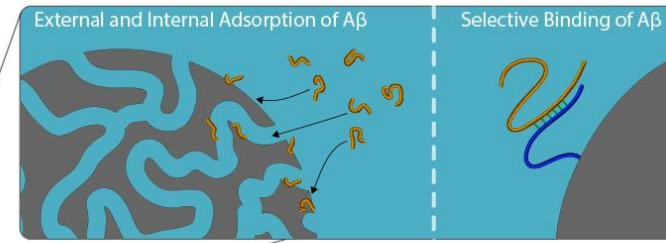


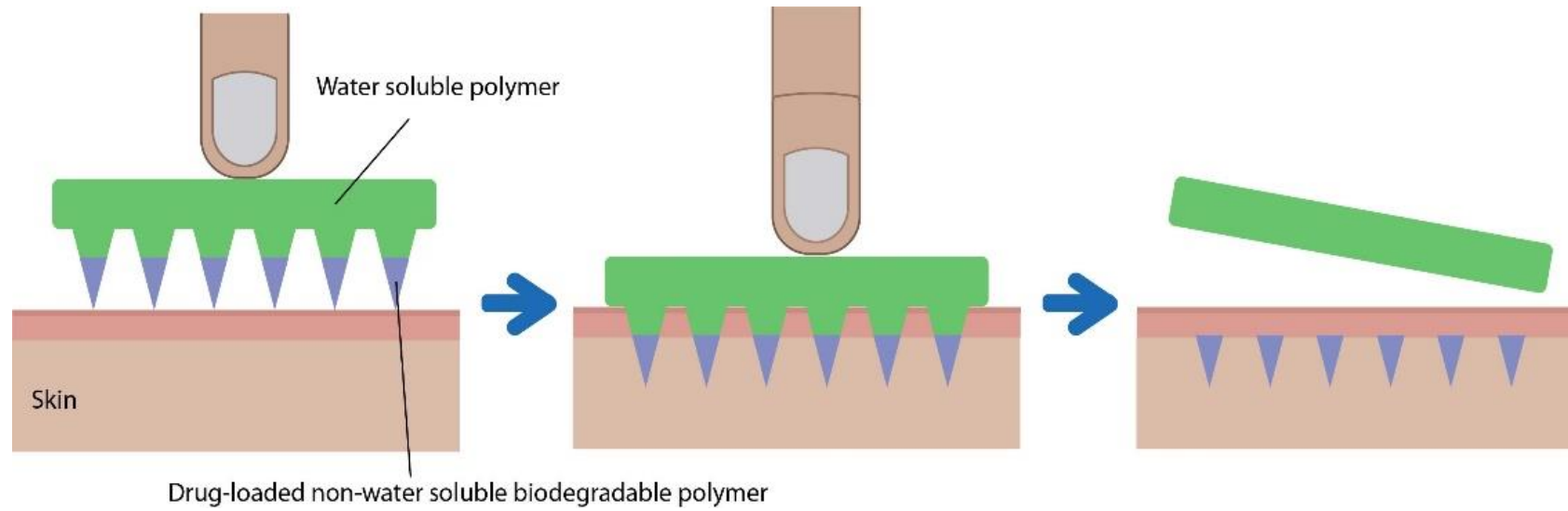
Elise, Mahdi, clinical trial

Philippe, INRS

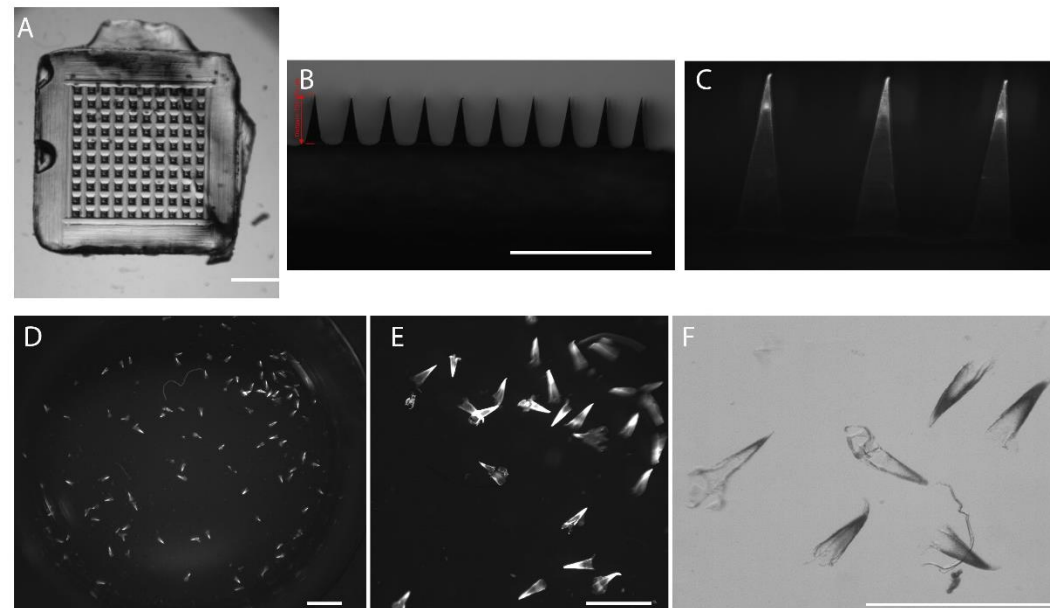


Carolina, Giorgio





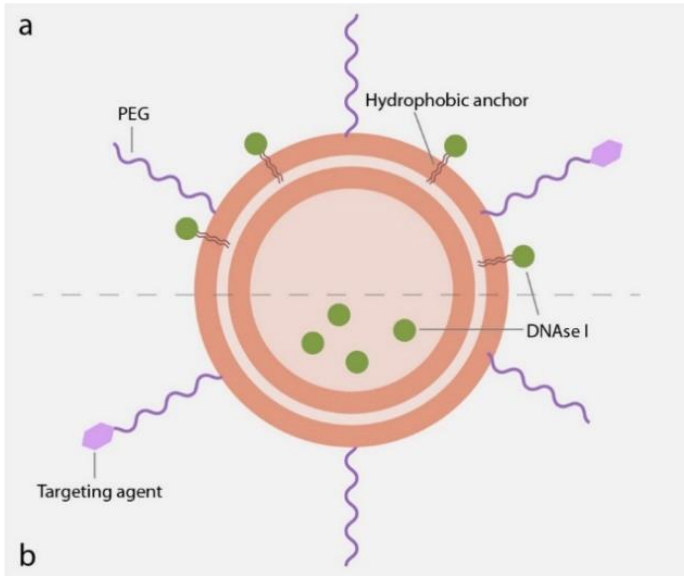
Cloé
 Fatma



mRNA delivery, Omaila...

Projects directly supported by this Chaire

PJ 1



PJ 2

