

MATTHEW B. BAKER

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EDUCATION

University of Florida, Gainesville, FL	
Ph. D. in Organic Chemistry, College of Liberal Arts and Sciences	2007–2012
New Venture Certificate, Warrington School of Business	
Clemson University, Clemson, SC	
B.S. in Chemistry, minor in Physics	2002–2006

RESEARCH POSITIONS

Assistant Professor	
MERLN, Maastricht University, Maastricht, NL	2017–present
Post-doctoral Researcher	
MERLN, Maastricht University, Maastricht, NL	2015–2017
Post-doctoral Researcher	
Eindhoven University of Technology, Eindhoven, NL	2012–2015
Advisor: Prof E. W. (Bert) Meijer	

SELECTED PUBLICATIONS (4/36)

- 1 FLC Morgan, L Moroni, **MB Baker**.* "Dynamic bioinks to advance bioprinting." *Adv. Health. Mat.*, **2020**, *9*, 1901798. [DOI](#)
- 2 T Kuhnt, R Marroquin Garcia, S Camarero-Espinosa, A Dias, T ten Cate, CA van Blitterswijk, L Moroni, **MB Baker**.* "Biocompatible and bioresorbable poly(caprolactone-co-trimethylenecarbonate) urethane acrylate resins for digital light processing." *Biomater. Sci.*, **2019**, *7*, 4984–4989. [DOI](#)
- 3 HW Ooi, C Mota, A Calore, T ten Cate, L Moroni, **MB Baker**.* "Thiol-ene alginate hydrogels as versatile bioinks for bioprinting." *Biomacromol.*, **2018**, *19*, 3390–3400. [DOI](#)
- 4 **MB Baker**, L Albertazzi, IK Voets, CMA Leenders, ARA Palmans, GM Pavan, EW Meijer. "Consequences of chirality on the dynamics of a water soluble supramolecular polymer." *Nat. Comm.* **2015**, *6*, 6234. [DOI](#)

SELECTED PRESENTATIONS

- "Natural vs Synthetic Matrices." Netherlands Biomaterials and Tissue Engineering (NBTE) Society Annual Meeting, Zoom, 2020.
- "Designing hydrogels for 3D printing: Static and dynamic." ESB Meeting, Dresden, Germany, 2019.
- "Controlling properties in dynamic hydrogels" ACS Fall National Meeting & Expo, San Diego, CA, USA, 2019.
- "Designing dynamic networks for tissue engineering." TERMIS EU Meeting, Rhodes, Greece, 2019.

MENTORING

- 4 PhD (1 completed); 5 PD (3 completed)
- 10 Master's theses and 8 Bachelor projects, including a Menno Knetsch Thesis Awardee (top thesis in graduate school), a Fullbright Scholar, and a Pfizer Life Sciences Awardee (top thesis in Netherlands). 8 have continued to PhD.

SELECTED SERVICE

World TERMIS track leader, host committee, and symposium organizer	2020/2021
EuroMat 2021 Symposium Organizer	2021
CHAINS Symposium Organizer (National Chemistry Conference)	2020
Platform MaterialenNL (National Advisory Platform)	2020–present

MEMBERSHIPS

ESB, TERMIS, ACS



MERLN Institute for Technology-Inspired Regenerative Medicine

Department of Complex Tissue Regeneration

Subject: Application for ESB Council

Dear ESB Council selection committee:

I am excited to submit an application for the European Society of Biomaterials (ESB) Council. I am currently an assistant professor who runs the BioMatt group (dynamic biomaterials) with the Department of Complex Tissue Regeneration (CTR) at the MERLN Institute for Technology-Inspired Regenerative Medicine, Maastricht University (NL), in the Faculty of Health Medicine and Life Sciences (FHML). I have been a member of ESB since 2018, upon starting a group centered around the creation of novel biomaterials, and have seen the power of a unifying body within the European field.

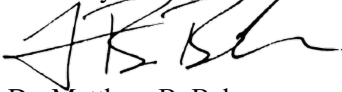
I am significantly younger and early career compared to many past members. Some may find this uncharacteristic for a Council application; however, I strongly believe that a successful Society provides a platform for and involves junior members in their vision and governance. As a Council member, I wish to bring a younger voice and perspective to the Council and will advocate for the Society to promote visibility and the careers of younger researchers.

I have little experience providing service in the way of international Councils. I do have experience in national councils (MaterialenNL Advisory platform). I do also have experience in organizing scientific conferences on both a conference (TERMIS 2021; NextGenChem 2019) and symposium level (EuroMat 2021; CHAINS 2020; 5 other examples). I see the power of organization of science and the communication between members in the form of conferences, special issue journals, and awards and recognition. I wish to further these skills and obtain experience in serving the community on an international level. As a Council member, I will learn from others on the Council how to best serve the community, and will have to make up for my inexperience with hard work.

I am an American born and trained scientist, building a career in Europe. I am active in the American Chemical Society (ACS) and maintain good contacts and collaborations with my US colleagues. The MERLN institute is home to more than 40 nationalities; my small group has already hosted nine. Science has often led the internationalization of the world by example; it is crucial that our large international societies continue to reinforce this example with the next generation of scientists. As a Council member, I will advocate for our European Society to collaborate more publicly with other international Societies (targets include ACS and SFB in the US and CHAINS and NIRM in NL).

I thank you for your time and consideration with my application. I look forward to strong leadership within the Council, and trust the selection committee will have difficult decisions to make. Even if I am not chosen, I hope that the council will find a way to involve early career group leaders.

Sincerely Yours,



Dr. Matthew B. Baker

Assistant Professor

MERLN Institute for Technology Inspired Regenerative Medicine

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