

Prof. Julien E. Gautrot - Professor in Biomaterials and Biointerfaces - QMUL

See our research group webpage: <http://biointerfaces.qmul.ac.uk/>

ORCID ID: 1614-2578. Researcher ID: S-7920-2016.

Research Experience and Education

2019-now	Professor in Biomaterials and Biointerfaces. School of Engineering and Materials Science, Queen Mary, University of London.
2011-2017	Lecturer/Senior Lecturer/Reader in Biomaterials. School of Engineering and Materials Science, Queen Mary, University of London.
2007-2011	Postdoctoral researcher. Prof. Wilhelm Huck and Prof. Fiona Watt laboratories. Chemistry Department and Stem Cell Research Centre, University of Cambridge, UK.
2005-2007	Postdoctoral researcher. Prof. Julian Zhu laboratory. Département de Chimie, Université de Montréal, Canada.
2001-2005	PhD in Chemistry. “Synthesis and characterisation of quinone-based conjugated polymers” Prof. Philip Hodge. Chemistry department, University of Manchester, UK.
1998-2001	Diplôme d’Ingénieur Chimiste (equivalent to an MSc in Chemistry). Ecole Nationale Supérieure de Chimie de Montpellier (ENSCM), Montpellier, France.

Institutional Responsibilities

2021-now	Director of the Centre for Molecular Biochemical Engineering. QMUL.
2016-2019	Deputy Director for Research for the Biomedical Engineering and Biomaterials Division. SEMS, QMUL
2014-2016	Chair of the Materials Discipline Teaching Group. SEMS, QMUL.

Supervision of Graduate Students and Postdoctoral Fellows

Present	Currently supervise 6 PDRAs, 10 PhDs and 3 MSc.
2011-2020	8 PDRAs, 16 PhDs (completed on time, within 4 years, in 2015-2020), 5 exchange visiting students (PhD level), 3 visiting postdocs and > 30 master students (MEng and MSc).
2007-2011	At Cambridge University, supervised the work of 2 PhD students (both completed successfully).

Track-record

- >75 peer-reviewed articles. Full list of publications: <http://biointerfaces.qmul.ac.uk/publications/index.html>
- h-index: 29 (Google Scholar; 4352 total citations) – 28 (Web of Science; 3364 total citations)
- High-impact/high-profile journals: **Nature Materials, Nature Cell Biology, Nano Letters, Chem. Rev., Angew. Chem. Int. Ed., ACS Nano, Biomaterials, Adv. Funct. Mater.**
- 2 research awards: **1 ERC consolidator** award (€2M, 2017) and the **QMUL 2018 Research Excellence** award.
- 1 granted US patent (8/173/765 B2) and 5 patent applications.
- 3 book chapter and 5 reviews in peer-reviewed journals, including *Chem. Rev.* 2014, 114, 10976-11026.
- Over **30 oral presentations** as invited speaker at international conferences and at invited seminars in the last 5 years.
- In total, in the last 5 years, attracted grants totalling >£4.5M as PI, including an **ERC consolidator grant** as well as grants from EPSRC, NC3Rs, Innovate UK, Leverhulme Trust, Royal Society and industry, EU H2020.

Commissions of Trust

Invited to join the **Editorial Board** of *Scientific Reports* (since 20127, SNPG, area of Biological Physics), *Multifunctional Materials* (since 2019, IOP) and *Smart Materials in Medicine* (since 2021, Elsevier).

Reviewer for the journals *Nature Communication, Biomaterials, Biomacromolecules, Biomaterials Sci., Acta Biomaterialia, JACS, Applied Materials and Interfaces, Polymer, Macromolecules, RSC Advances, Chemical Reviews, ACS Nano, Langmuir, Applied Materials and Interfaces, Advanced Materials, Polymer Chemistry, Antioxidants and Redox Signalling* and *Scientific Reports* (amongst others). > 24 in 2020.

Reviewer of grant proposals for the Biotechnology and Biological Sciences Research Council (**BBSRC**), the Engineering and Physical Sciences Research Council (**EPSRC**), Cancer Research UK (**CRUK**), the Natural Sciences and Engineering Research Council of Canada (**NSERC**), the Irish Research Council (**IRC**), the Dutch Research Council (**NWO**) and the Israel Science Foundation (**ISF**).

Examiner for over 20 PhD thesis (in Nijmegen, Cambridge, Glasgow Uni., Imperial College, Uni. of Warwick, Nottingham and QMUL).

Chair of sessions at the RSC MC14 2019, ESB 2018 (Maastricht, 2018), 6th International Symposium in Polymer Chemistry (Shanghai 2014), ICFPAM13 (Auckland, 2013) and the POC09 IUPAC conference (Montreal, 2009).



Prof. Julien E. Gautrot

28th February 2021

Re: Nomination Letter for the ESB Council 2021

Dear ESB Council,

As a relatively recently established group leader, I certainly value the importance of developing a cohesive, self-driven, yet outward-facing research community. This ensures the rapid exchange of ideas, feedback and expertise, but also enables collaborations and the development of multidisciplinary research. With a research focus very much oriented towards the design of novel biomaterials and the study of the cell-materials interface, my group has benefited from the opportunities that the ESB community enables, including through regular attendance of ESB and WBC conferences in the last ten years. I hope that I can also contribute to this effort and would be honoured to do so if given the opportunity to join the ESB council.

The ESB is contributing to the scientific and education community in Europe at many different levels, by bringing multidisciplinary experts together from academia and industry. There is no doubt that it will continue playing an essential role to maintain the European research community at the forefront internationally, despite important challenges faced by our society, such as the Covid pandemics and Brexit. I feel it is particularly important that members try to actively participate to this effort and I hope I can indeed contribute. We are all research active and many of us have significant teaching commitment. Beyond this experience, I hope to also be able to contribute with my experience in industrial engagement and in participating in international multidisciplinary research networks, including outside of Europe. I also particularly appreciate the importance of a supportive community to encourage the development of young talents and actively promote diversity in our community.

Overall, I am convinced of the importance of the ESB for European research, education, industry and our society. I would welcome the opportunity to contribute and commit to its efforts and help continue the wonderful role it has played in our field.

Please do not hesitate to let me know if you require any further information.

Best wishes,



Julien Gautrot
Professor in Biomaterials and Biointerfaces
Director of the Centre for Molecular Biochemical Engineering, QMUL