Curriculum vitae

AL MAGNIFICO RETTORE
DELL'UNIVERSITA' DEGLI STUDI DI MILANO **COD. ID 4656:**

Il sottoscritto chiede di essere ammesso a partecipare alla selezione pubblica, per titoli ed esami, per il conferimento di un assegno di ricerca presso il i di durata **12** mesi

Responsabile scientifico: **Prof. Trassati**

Dr. Paolo Bombelli

CURRICULUM VITAE

INFORMAZIONI PERSONALI

Cognome	Bombelli
Nome	Paolo
Data Di Nascita	[Giorno, mese, anno] 07,08,1974

OCCUPAZIONE ATTUALE

Incarico	Struttura
Reaserch Associate	Department of Biochemistry, Univesrsity of Cambridge (UK)

ISTRUZIONE E FORMAZIONE

Titolo	Corso di studi	Università	anno conseguimento titolo
Laurea Magistrale o equivalente	Biologia	Milano	2002
Specializzazione			
Dottorato Di Ricerca	Ingenieria Chimica	Cambridge	2014
Master			
Diploma Di Specializzazione Medica			
Diploma Di Specializzazione Europea			
Altro			

ISCRIZIONE AD ORDINI PROFESSIONALI

Data iscrizione	Ordine	Città

LINGUE STRANIERE CONOSCIUTE

lingue	livello di conoscenza
Inglese	Fluent

PREMI, RICONOSCIMENTI E BORSE DI STUDIO

anno	Descrizione premio
2006	First prize at the LEAP 2006 competition (London, UK) (premio)
2009	Finalist at SET for BRITAIN 2009 - House of Commons (Lonon, UK) (premio)
2016	Public Engagement with Research award (Cambridge, UK) (premio)
2016	Shuttleworth Foundation flash grant $5k (riconoscimento)
2016	National Reaserch Foundation Saouth Africa R165,000 (ca. £10.1k) (borsa di viaggio)
2018	Festa del Perdono Medaglia Oro – (Melegnano-Milano, Italy, 2018) (premio)
2018	BEST, BBSRC-IAA £8.9k (borsa di viaggio)

ATTIVITÀ DI FORMAZIONE O DI RICERCA

descrizione dell'attività

ATTIVITÀ PROGETTUALE

Anno	Progetto
2013	C. Howe and P. Bombelli. EPSRC IAA Partnership Development £48k
2015	P. Bombelli and B. Parker. Big Algae Open Experiment - OpenPlant £5k
2016	C. Howe, T. Knowles, P. Bombelli. Leverhulme Foundation for micro channel BPV development £135k
2016	P. Bombelli. Co-lab OpenPlant t £5k
2017	P. Bombelli, C. Howe and Priyanka Jamwal. Plant-BPV, Royal Society of Eng. £19k
2019	P.Bombelli and C. Howe, *National* Biofilms Innovation Centre (UK), Algal powered microprocessor: £68k
2019	P. Bombelli, Italian Ministry of Univer. &Research (RBSI14JKU3), investigation of electrotrophic cathodic bacterial communities: €32.5k (~£30k)

TITOLARITÀ DI BREVETTI

Brevetto
Hydrogen and electrical current production from a photosynthetically driven semibiological devices (SBDS). Bombelli P. Priority number(s): WO2008GB03278 20080926; GB20070019009 20070928.

CONGRESSI, CONVEGNI E SEMINARI

Data	Titolo	Sede
2018	Bologna (Italy): ISE2018, 3-7 th September, Invited speaker.	Bologna (Italy)
2018	Cambridge (UK): St. Johns College, 3 March 2018. In[SCI]TE 2018, Keynote speker	Cambridge (UK)
2017	Oxford (UK): Oxford Union, 17-20	Oxford (UK)

	September 2017. "Frontiers of Engineering for Development: Sustainable Global Wellbeing"	
2016	London (UK): Strategic Alternative Energy Source for Egypt – Invited speaker 18-20th July 2016	London (UK)
2012	Norwich (UK): University of East Anglia, Electron transfer at the microbe-mineral interface, 2- 4 th April 2012 'Intra and extra cellular electron transport in photosynthetic material in BPV devices'	Norwich (UK)
2010	Gent (Belgium): 1st International Plant Power Symposium, 2-4 th November 2010 'Electrogenic photosynthetic organisms	Gent (Belgium)

PUBBLICAZIONI

Libri
Biophotovoltaics: Methods and Protocols Stephen J.L. Rowden, Paolo Bombelli and Christopher J. Howe Methods in Molecular Biology, Springer 2018
Text book for the Pre U syllabus – Biology Cambridge University Press Section 13 2016
[titolo, città, editore, anno…]

Articoli su riviste

Original publication I have co-authored 26 papers; h-index:22, citation:1464 (Google Scholar, July, 2020). Papers published with IF >5 are fully listed below **[IF@2019]**

- Tinted Semi-Transparent Solar Panels allow Concurrent Production of Crops and Electricity on the Same Cropland (2020), ***Advanced Energy and Materials***, in press [**24.8**].
- Enhancing power density of biophotovoltaics by decoupling storage and power delivery. (2018) **Nature Energy** 3, 75–81 [**54.0**]
- Porous translucent electrodes enhance current generation from photosynthetic biofilms. ***Nature Communications***, (2018) **[12.1]**
- Electricity generation from digitally printed cyanobacteria. ***Nature Communications***, (2017) **[12.1]**
- Photoelectrochemistry of Photosystem II in Vitro vs in Vivo. ***J. of American Chem. Soc.***, (2017) **[13.9]**
- Platinum-free, graphene based anodes and air cathodes for single chamber microbial fuel cells. **Journal of Materials, Chemistry A**, (2017) **[8.87]**
- PE bio-degradation by caterpillars of the wax moth *G. mellonella*. ***Current Biology***, (2017) **[8.85]**
- Hydrocarbons are essential for optimal cell size and growth of cyanobacteria. ***Plant Phys*.,** (2016) **[6.26]**
- Exploiting algal NADPH oxidase for biophotovoltaic energy. ***Plant Biotechnology Journal***, (2016) **[7.44]**

- Enhancing plasma membrane NADPH oxidase activity increases current output by diatoms in biophotovoltaic devices. ***Algal Research***, (2015) **[5.0]**
- Biophotovoltaics: oxygenic photosynthetic organisms in the world of bioelectrochemical systems. ***Energy Environ. Sci.***, (2015) **[33.3]**
- A high power-density mediator-free microfluidic biophotovoltaic device for cyanobacterial cells. ***Advanced Energy Materials***, (2015) **[16.7]**
- Phycobilisome-deficient strains of *Synechocystis* sp. PCC 6803 have reduced size and require carbon-limiting conditions to exhibit enhanced productivity. ***Plant Phys***., 165:705-714, (2014) **[6.28]**
- Hydrogen production through oxygenic photosynthesis using the cyanobacterium *Synechocystis* sp. PCC 6803 in a bio-photoelectrolysis cell (BPE) system. *Energ Environ Sci.*, (2013) **[29.5]**
- Porous ceramic anode materials for photo-microbial fuel cells J. *Mater. Chem*., (2011) **[6.63]**
- Photosynthetic biofilms in pure culture harness solar energy in a mediatorless bio-photovoltaic (BPV) cell system. ***Energ Environ Sci***., (2011) **[33.3]**
- Quantitative analysis of the factors limiting solar power transduction by *Synechocystis sp*. PCC 6803 in biological photovoltaic devices. ***Energ Environ Sci***., (2011) **[33.3]**

Atti di convegni
[titolo, struttura, città, anno]
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ALTRE INFORMAZIONI

Le dichiarazioni rese nel presente curriculum sono da ritenersi rilasciate ai sensi degli artt. 46 e 47 del DPR n. 445/2000.

Il presente curriculum, non contiene dati sensibili e dati giudiziari di cui all'art. 4, comma 1, lettere d) ed e) del D.Lgs. 30.6.2003 n. 196.

Luogo e data: ___Cambridge_____, ___19/07/2019_____

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