

## INFORMAZIONI PERSONALI

Valentino Francesco

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Sesso Maschile | Nazionalità Italiana

ESPERIENZA  
PROFESSIONALE

1 Ago. 17–alla data attuale

**Ricercatore a tempo determinato RTD - SSD ING-IND/25**

"La Sapienza" Università di Roma, Rome (Italia)

(A) Gestione di processi in scala pilota: ottimizzazione, design e scale-up di processi biotecnologici; obiettivi: conversione di reflui ed acque di scarico urbane in biopolimeri (poliidrossialcanoati - PHA) e biogas (Impianto pilota di Treviso - TV).

Settore: R&D Process engineer (processi biotecnologici, trattamento acque di scarico, gestione rifiuti solidi urbani, fermentazione e digestione anaerobica, biopolimeri, bilanci energetici e di massa)

(B) Consulenza in processi biochimici e biotecnologici (Impianti pilota di Carbonera - TV, ed Isola della Scala - VR)

(C) Didattica: Processi chimici industriale e Impianti chimici (programma Laurea Triennale); Valorizzazione biomasse ed energie rinnovabili (programma Laurea Specialistica)

H2020 Projects: ResUrbis ([www.resurbis.eu](http://www.resurbis.eu)); SmartPlant ([www.smart-plant.eu](http://www.smart-plant.eu)); NoAW ([www.noaw2020.eu](http://www.noaw2020.eu))

1 Apr. 12–31 Mar. 16

**Assegnista di ricerca - SSD ING-IND/25**

"La Sapienza" University of Rome, Rome (Italia)

(A) Gestione processi biotecnologici in scala pilota: produzione di biopolimeri da rifiuti solidi urbani e biomasse; bilanci di massa, energetici ed LCA .

(B) CO<sub>2</sub> supercritica: sviluppo di un metodo per l'estrazione di biopolimeri intracellulari (PHA da colture microbiche miste, MMC).

(C) Migrazione ed abbattimento di micro-contaminanti organici persistenti in processi multi-step aerobici/anaerobici (scala di laboratorio).

(D) Produzione di platform chemicals (volatile fatty acid - VFA) ed alcoli da reflui organici (scala di laboratorio).

(E) Valorizzazione di fanghi ed acque di scarico municipali attraverso processi biologici multi-step: produzione di biopolimeri (PHA)

Settore: R&D process engineer (processi biotecnologici, trattamento acque di scarico, gestione rifiuti solidi, recupero di bio-risorse)

FP7 projects: Routes ([www.eu-routes.org](http://www.eu-routes.org)); Ecobiocap ([www.ecobiocap.eu](http://www.ecobiocap.eu))

1 Set. 11–31 Mar. 12

**Research assistant**

Anoxkaldnes AB, Lund (Svezia)

(A) Monitoraggio e controllo di impianti pilota: processi di rimozione del carbonio da acque di scarico municipali e conversione dei fanghi primari in biopolimeri (PHA).

Settore: R&D process engineer (processi biotecnologici; trattamento acque e rifiuti solidi)

FP7 project: Routes ([www.eu-routes.org](http://www.eu-routes.org))

1 Nov. 08–30 Ott. 11

**PhD student**

"La Sapienza" University of Rome, Rome (Italia)

(A) Monitoraggio e controllo di processi biotecnologici (scala di laboratorio): fermentazione di reflui agro-industriali (cheese whey; olive oil mill wastewater); produzione di biopolimeri per via biologica; studio delle cinetiche e della termodinamica di processo.

(B) Abbattimento fanghi di supero tramite pretrattamento termico e successiva produzione di biopolimeri (scala di laboratorio).

(C) Biorisanamento delle acque di falda: rimozione/degradazione di solventi clorurati e determinazione delle cinetiche di reazione tramite studi in scala di laboratorio.

Settore: Process engineer (wastewater treatment; bioremediation; biopolymers)

FP7 projects: Routes ([www.eu-routes.org](http://www.eu-routes.org)); Ecobiocap ([www.ecobiocap.eu](http://www.ecobiocap.eu))

**ISTRUZIONE E FORMAZIONE**

1 Nov. 08–1 Mag. 12

**PhD**

Livello 8 QEQ

"La Sapienza" Università di Roma; Facoltà di Ingegneria Chimica, Materiali e Ambiente, Roma (Italia)

Processi biotecnologici: design, start-up, campionamento, ottimizzazione, downstream processing e scale-up.

Environmental engineering; environmental chemistry.

Principali metodi analitici: GC - HPLC - Cromatografia Ionica.

1 Ott. 05–23 Lug. 08

**Master Degree (Industrial Chemistry - 110/110 cum laude)**

Livello 7 QEQ

"La Sapienza" Università di Roma; Facoltà di Scienze Matematiche, Fisiche e Naturali, Roma (Italia)

Processi chimici industriali; Impianti chimici, cinetiche di reazione; modellizzazione e design di reattori chimici e biologici; modelli matematici.

Principali metodi analitici: GC - HPLC - Cromatografia ionica.

1 Ott. 02–13 Dic. 05

**Bachelor Degree (Industrial Chemistry - 110/110 cum laude)**

Livello 6 QEQ

"La Sapienza" Università di Roma; Facoltà di Scienze Matematiche, Fisiche e Naturali, Roma (Italia)

Chimica Inorganica; Chimica Organica; Chimica Ambientale; Chimica Fisica; Chimica Analitica; Matematica; Fisica; Statistica.

Metodi analitici: Estrazione in fase liquida e in fase solida; GC-MS.

**COMPETENZE PERSONALI**

Lingue straniere

	COMPRESIONE		PARLATO		PRODUZIONE SCRITTA
	Ascolto	Lettura	Interazione	Produzione orale	
inglese	C1	B2	B2	C1	B2

Livelli: A1 e A2: Utente base - B1 e B2: Utente autonomo - C1 e C2: Utente avanzato  
 Quadro Comune Europeo di Riferimento delle Lingue - Scheda per l'autovalutazione

Competenze digitali

AUTOVALUTAZIONE				
Elaborazione delle informazioni	Comunicazione	Creazione di Contenuti	Sicurezza	Risoluzione di problemi
Utente autonomo	Utente autonomo	Utente autonomo	Utente base	Utente autonomo

Competenze digitali - Scheda per l'autovalutazione

- Eccellente padronanza degli strumenti Microsoft Office™, in particolare Word, Excel e Access.

- Excellent padronanza dei database sulla peer-reviewed literature (libri, riviste scientifiche e conference proceedings) quali Scopus, SciFinder, Scencedirect.

## ULTERIORI INFORMAZIONI

### Pubblicazioni

- 1) "Exploiting olive oil mill effluents as a renewable resource for production of biodegradable polymers through a combined anaerobic-aerobic process". M. Beccari, L. Bertin, D. Dionisi, F. Fava, S. Lampis, M. Majone, **F. Valentino**, G. Vallini, M. Villano. *Journal of Chemical Technology and Biotechnology*, 2009, 84:901-908.
- 2) "Effect of hydraulic and organic loads in sequencing batch reactor on microbial ecology of mixed cultures and storage of polyhydroxyalkanoates". M. Villano, S. Lampis, **F. Valentino**, G. Vallini, M. Majone, M. Beccari. *Chemical Engineering Transaction*, 2010, 20:187-192.
- 3) "Olive Oil Wastewater as a Renewable Resource for Production of Polyhydroxyalkanoates". **F. Valentino**, M. Villano, L. Bertin, M. Beccari, M. Majone. Chapter 4 in *Renewable Polymer: Synthesis, Technology and Processing*, 2011, 175-220. Vikas Mittal Editor, Wiley Scrivener.
- 4) "Start up of biological sequencing batch reactor (SBR) and short-term biomass acclimation for polyhydroxyalkanoates production". **F. Valentino**, A.A. Brusca, M. Beccari, A. Nuzzo, G. Zanolari, M. Majone. *Journal of Chemical Technology and Biotechnology*, 2013, 88:261-270.
- 5) "Innovative treatment solutions for sewage sludge recovery on a FP7 project Routes" (extended abstract). M. Boehler, D. Bolzonella, C.M. Braguglia, A. Gallipoli, A. Gianico, C. Levantesi, F. Morgan-Sagastume, H. Siegrist, M.C. Tomei, **F. Valentino**, G. Mininni. *Environmental Engineering and Management Journal*, supplement, 2013, 12:11-14.
- 6) "Feed frequency in a Sequencing Batch Reactor strongly affects polyhydroxyalkanoates (PHA) production from volatile fatty acids". **F. Valentino**, M. Beccari, S. Fraraccio, G. Zanolari, M. Majone. *New Biotechnology*, 2014, 31:264-275.
- 7) "Polyhydroxyalkanoates production with mixed microbial cultures: from culture selection to polymer recovery in a high-rate continuous process". M. Villano, **F. Valentino**, A. Barbetta, L. Martino, M. Scandola, M. Majone. *New Biotechnology*, 2014, 31:289-296.
- 8) "Biopolymer production from sludge and municipal wastewater treatment". F. Morgan-Sagastume, **F. Valentino**, M. Hjort, D. Cime, L. Karabegovic, F. Gerardin, O. Dupont, P. Johansson, A. Karlsson, P. Magnusson, T. Alexandersson, S. Bengtsson, M. Majone, A. Werker. *Water Science and Technology*, 2014, 69:177-184.
- 9) "Sludge minimization in municipal wastewater treatment by polyhydroxyalkanoates (PHA) production". **F. Valentino**, F. Morgan-Sagastume, S. Fraraccio, G. Corsi, G. Zanolari, A. Werker, M. Majone. *Environmental Science and Pollution Research*, 2015, 22:7281-7294.
- 10) "Polyhydroxyalkanoate (PHA) storage within a mixed-culture biomass with simultaneous growth as a function of substrate feed nitrogen and phosphorus contents". **F. Valentino**, L. Karabegovic, M. Majone, F. Morgan-Sagastume, A. Werker. *Water Research*, 2015, 77:49-63.
- 11) "Fate of  $\beta$ -HCH in the MMCs three-stage PHA production process from cheese whey". **F. Valentino**, C. Riccardi, S. Campanari, D. Pomata, M. Majone. *Bioresource Technology*, 2015, 192:304-311.
- 12) "Stabilization of Iron (micro)particles with Polyhydroxybutyrate for in situ remediation application". L. Chronopoulou, C. Palocci, **F. Valentino**, I. Petitti, S. Waclawek, M. Cernik, M. Petrangeli-Papini. *Applied Sciences*, 2016, 6:417.
- 13) "Carbon recovery from wastewater through bioconversion into biodegradable polymers". **F. Valentino**, F. Morgan-Sagastume, S. Campanari, M. Villano, A. Werker, M. Majone. *New Biotechnology*, 2017, 37:9-23.
- 14) "Impact of nitrogen feeding regulation on polyhydroxyalkanoates production by mixed microbial cultures". F. Silva, S. Campanari, S. Matteo, **F. Valentino**, M. Majone, M. Villano. *New Biotechnology*, 2017, 37:90-98.
- 15) "Effect of culture residence time on substrate uptake and storage by a pure culture of *Thiothrix* (CT3 strain) under continuous or batch feeding". **F. Valentino**, M. Beccari, M. Villano, V. Tandoi, M. Majone. *New Biotechnology*, 2017, 36:1-7.
- 16) "PHA copolymers from microbial mixed cultures: Synthesis, extraction and related properties". M. Majone, L. Chronopoulou, L. Lorini, A. Martinelli, C. Palocci, S. Rossetti, **F. Valentino**, M. Villano. Chapter 10 in *Current Advances in Biopolymer Processing and Characterization*, 2017, 223-276. Nova Science Publishers.
- 17) "Extraction of polycyclic aromatic hydrocarbons from polyhydroxyalkanoates before gas chromatography/mass spectrometry analysis". C. Cavaliere, C.M. Montone, A.L. Capriotti, G. La Barbera, S. Piovesana, M. Rotatori, **F. Valentino**, A. Laganà. *Talanta*, 2018, 188:671-675.

- 18) "Organic fraction of municipal solid waste recovery by conversion into added-value polyhydroxyalkanoates (PHA) and biogas". **F. Valentino**, M. Gottardo, F. Micolucci, P. Pavan, D. Bolzonella, S. Rossetti, M. Majone. ACS Sustainable Chemistry & Engineering, 2018, 6:16375-16385.
- 19) "Novel routes for urban bio-waste management: A combined acidic fermentation and anaerobic digestion process for platform chemicals and biogas production". **F. Valentino**, G. Moretto, M. Gottardo, P. Pavan, D. Bolzonella, M. Majone. Journal of Cleaner Production, 2019, 220:368-375.
- 20) "Optimization of urban waste fermentation for volatile fatty acids production". G. Moretto, **F. Valentino**, P. Pavan, M. Majone, D. Bolzonella. Waste Management, 2019, 92:21-29.
- 21) "Organic fraction of municipal solid waste conversion into polyhydroxyalkanoates (PHA) in a pilot scale anaerobic/aerobic process". **F. Valentino**, L. Lorini, P. Pavan, D. Bolzonella, M. Majone. Chemical Engineering Transaction, 2019, 74:265-270.
- 22) "Acclimation process for enhancing polyhydroxyalkanoate accumulation in activated-sludge biomass". F. Morgan-Sagastume, **F. Valentino**, M. Hjort, G. Zanaroli, M. Majone, A. Werker. Waste and Biomass Valorisation, 2019, 10:1065-1082.
- 23) "Microbiome dynamics and phaC synthase genes selected in a pilot plant producing polyhydroxyalkanoate from the organic fraction of urban waste". S. Crognale, B. Tonanzi, **F. Valentino**, M. Majone, S. Rossetti. Science of the Total Environment, 2019, 689:765-773.
- 24) "Pilot-scale polyhydroxyalkanoate production from combined treatment of organic fraction of municipal solid waste and sewage sludge". **F. Valentino**, G. Moretto, L. Lorini, D. Bolzonella, P. Pavan, M. Majone. Industrial and Engineering Chemistry Research, 2019, 58:12149-12158.
- 25) "Food wastes and sewage sludge as feedstock for an urban biorefinery producing biofuels and added-value bioproducts". F. Battista, N. Frison, P. Pavan, C. Cavinato, M. Gottardo, F. Fatone, A.L. Eusebi, M. Majone, M. Zeppilli, **F. Valentino**, D. Fino, T. Tommasi, D. Bolzonella. Journal of Chemical Technology & Biotechnology, 2020, 95:328-338.
- 26) "An urban biorefinery for food waste and biological sludge conversion into polyhydroxyalkanoates and biogas". G. Moretto, I. Russo, D. Bolzonella, P. Pavan, M. Majone, **F. Valentino**. Water Research, 2020, 170:115371.
- 27) "Polychlorinated Biphenyl Profile in Polyhydroxy-alkanoates Synthetized from Urban Organic Wastes". C. Riccardi, F. Buiarelli, F. Castellani, P. Di Filippo, L. Lorini, M. Majone, M. Matos, D. Pomata, G. Simonetti, B. Sommer Ferreira, **F. Valentino**. Polymers, 2020, 12:659.
- 28) "High rate selection of PHA accumulating mixed cultures in sequencing batch reactors with uncoupled carbon and nitrogen feeding". L. Lorini, F. di Re, M. Majone, **F. Valentino**. New Biotechnology, 2020, 56:140-148.
- 29) "Long-term validation of polyhydroxyalkanoates production potential from the sidestream of municipal wastewater treatment plant at pilot scale". V. Conca, C. da Rosa, **F. Valentino**, A.L. Eusebi, N. Frison, F. Fatone, 2020, 390:124627.

#### Conferenze

- 2<sup>nd</sup> International Conference on Industrial Biotechnology IBIC 2010, April 11<sup>th</sup>–14<sup>th</sup> 2010, Padova (Italy) "Effect of hydraulic and organic loads in Sequencing Batch Reactor on microbial ecology of activated sludge and storage of polyhydroxyalkanoates". M. Villano, S. Lampis, **F. Valentino**, G. Vallini, M. Majone, M. Beccari.
- 14<sup>th</sup> International Biotechnology Symposium and Exhibition, IBS 2010 Biotechnology for the Sustainability of Human Society. September 14<sup>th</sup>–18<sup>th</sup> 2010, Rimini (Italy) "Effect of hydraulic and organic loads in Sequencing Batch Reactor on microbial ecology of mixed cultures and on storage of polyhydroxyalkanoates". **F. Valentino**, M. Villano, M. Beccari, S. Lampis, G. Vallini, M. Majone.
- 5<sup>th</sup> European Bioremediation Conference, July 4<sup>th</sup>–7<sup>th</sup> 2011, Chania (Greece). "Quick start up of biological sequencing batch reactor (SBR) for polyhydroxyalkanoates production from renewable resources". **F. Valentino**, M. Beccari, A.A. Brusca, M. Majone.
- European Project Routes FP7, Session in IWA Conference on Holistic Sludge Management, May 6<sup>th</sup> – 8<sup>th</sup> 2013, Västerås, Sweden "Biopolymer production from sludge and municipal wastewater treatment". F. Morgan-Sagastume, **F. Valentino**, M. Hjort, D. Cirne, L. Karabegovic, F. Gerardin, O. Dupont, P. Johansson, A. Karlsson, P. Magnusson, T. Alexandersson, S. Bengtsson, M. Majone, A. Werker.-
- 7<sup>th</sup> European Symposium on Biopolymers (ESBP), October 7<sup>th</sup>–9<sup>th</sup> 2013, Lisbon, Portugal. "Feast-famine selection of microbial mixed-cultures for PHA production based on carbon removal from municipal wastewater without previous fermentation". **F. Valentino**, F. Morgan-Sagastume, D. Cirne, F. Gerardin, M. Hjort, A. Werker, M. Majone.
- Pollutec Horizons 2013, December 3<sup>rd</sup>–6<sup>th</sup> 2013, Paris (France). "Production of biopolymers from

- wastewater treatment and sludge minimization". F. Morgan-Sagastume, **F. Valentino**, M. Majone, A. Werker.
- Ecotechnologies for wastewater treatment, 2<sup>nd</sup> IWA specialized conference. Technical, Environmental and Economic challenges, 23<sup>th</sup>-25 June 2014, Verona (Italy). "Carbon recovery from wastewater through bioconversion into biodegradable polymers". M. Majone, **F. Valentino**, S. Campanari, M. Villano, M. Hjort, F. Morgan-Sagastume, A. Werker.
  - "16<sup>th</sup> International Biotechnology Symposium and Exhibition" Fortaleza, Brazil, 14<sup>th</sup>-19<sup>th</sup> September 2014. "Wastewater treatment and valorization towards polyhydroxyalkanoates production in a multi-stage process involving mixed microbial culture". S. Campanari, **F. Valentino**, M. Villano, M. Majone.
  - Convegno "Biotecnologie per lo sviluppo sostenibile. Applicazioni e sicurezza" INAIL, Roma 30 Ottobre 2014. "Processi innovativi per la produzione di polimeri biodegradabili a partire da scarichi municipali o industriali". **F. Valentino**, S. Campanari, M. Villano, M. Majone.
  - ECOMONDO, 18<sup>o</sup> Fiera Internazionale del recupero di materia ed energia e dello sviluppo sostenibile. Convegno "Soluzioni e prospettive per la valorizzazione e/o smaltimento dei fanghi di depurazione" 05-08 Novembre 2014, Rimini. "Produzione di poliidrossialcanoati (PHA) dal trattamento dei fanghi e delle acque di scarico municipali". **F. Valentino**, F. Morgan-Sagastume, A. Werker, M. Majone.
  - WEF/IWA Residual and Biosolids Conference 2015: The next generation of Science, Technology and Management; Washington DC, 07-10 June 2015. "Polyhydroxyalkanoates (PHA) production from municipal wastewater and sludge treatment". **F. Valentino**, F. Morgan-Sagastume, M. Hjort, D. Cime, F. Gerardin, G. Zanaroli, M. Majone, A. Werker.
  - 8<sup>th</sup> European Symposium on Biopolymers (ESBP), September 15<sup>th</sup>-18<sup>th</sup> 2015, Rome, Italy. "Practical advances in mixed microbial culture (MMC) polyhydroxyalkanoates accumulation with activated sludge", L. Quadri, **F. Valentino**, M. Majone, F. Morgan-Sagastume, A. Werker; "Impact of nitrogen feeding regulation on polyhydroxyalkanoates production by mixed microbial cultures", S. Campanari, F. Silva, S. Matteo, **F. Valentino**, M. Majone, M. Villano.
  - XXII IUPAC Chemrawn Conference on Solid Urban Waste Management, 6-8 April 2016, Rome (Italy). "Integrated treatment of municipal organic waste and sewage sludge leading to energy and bioplastics: preliminary results". M. Majone, **F. Valentino**, M. Villano, I. Ceccarelli, P. Pavan, S. Cavinato, M. Gottardo, F. Cecchi, D. Bolzonella, F. Micolucci.
  - SUM2016, 3<sup>rd</sup> Symposium on Urban Mining and Circular Economy, 23<sup>th</sup>-25<sup>th</sup> May 2016, Bergamo (Italy). Networking Session: gestione del carbonio nei flussi secondari adottando l'approccio della Circular Economy. **F. Valentino**
  - "Settimo Convegno Giovani": Le Frontiere della Chimica nel Nuovo Millennio. 14-15 June 2016, Rome (Italy). Trattamento integrato dei rifiuti organici urbani e fanghi di depurazione per la produzione di biopolimeri. F. Valentino, I. Ceccarelli, M. Gottardo, F. Micolucci, P. Pavan, M. Majone.
  - ECB 2016, 17<sup>th</sup> European Congress on Biotechnology, 3-6 July 2016, Krakow (Poland). Pilot-scale performance of PHA production from municipal solid waste using mixed microbial cultures (MMC). **F. Valentino**, A. Martinelli, L. Lorini, C. Palocci, M. Majone, M. Gottardo, P. Pavan, F. Micolucci, D. Bolzonella, F. Cecchi.
  - 9<sup>th</sup> European Symposium on Biopolymers, 5-7 July 2017, Toulouse (France). Extraction of Polyhydroxyalkanoates (PHA) from Mixed Microbial Culture (MMC): mild solutions and Health & Safety aspects. **F. Valentino**, B. Pietrangeli, E. Incocciati, R. Andreozzi, C. di Giovanni, L. Lorini, A. Martinelli, C. Palocci, M. Majone.
  - EUBCE 2018, 26<sup>th</sup> European Biomass Conference & Exhibition, 14-17 May 2018, Copenhagen (Denmark). "An urban bio-refinery to convert organic waste into bio-based plastics: the H2020 RES URBIS project. **F. Valentino**, L. Lorini, G. Moretto, M. Gottardo, P. Pavan, M. Majone.
  - Smice2018, Sludge Management in Circular Economy, 23-25 May 2018, Rome (Italy). "Polyhydroxyalkanoates (PHA) production from urban biowaste mixture at pilot scale". **F. Valentino**, S. Piovesan, M. Gottardo, D. Bolzonella, P. Pavan, M. Majone.
  - 7th International Conference on Sustainable Solid Waste Management, 26-29 June 2019, Heraklion (Greece). "Downstream processing for Polyhydroxyalkanoates from mixed microbial cultures: study of microbial activity inhibition, polymer recovery and characterization". L. Lorini, **F. Valentino**, G. Bifulchi, A. Martinelli, M. Majone.
  - Gricu 2019, Palermo-Mondello 30 June - 03 July 2019. "Una bioraffineria urbana per la conversione della frazione organica dei rifiuti solidi urbani (FORSU) e fanghi municipali in biopolimeri e biogas". **F. Valentino**, G. Moretto, L. Lorini, D. Bolzonella, P. Pavan, M. Majone.
  - Green Challenges for Sustainable Value Chain; 28 June 2019, Venice-Mestre, Ca Foscari University (Italy). An urban biorefinery to convert organic waste into bio-based plastics: the H2020 RES URBIS

project. **F. Valentino**.

- 1<sup>st</sup> International Biogas Conference; 3-4 May 2019, Athens (Greece). An urban biorefinery to convert organic waste into bio-based plastics: the H2020 RES URBIS project. **F. Valentino**.

- The 14<sup>th</sup> International Congress on Chemical and Process Engineering (ICHEAP14). Bologna (Italy), 26-29 May 2019. Organic Fraction of Municipal Solid Waste conversion into Polyhydroxyalkanoates (PHA) in a pilot scale anaerobic/aerobic process. **F. Valentino**, L. Lorini, P. Pavan, D. Bolzonella, M. Majone.

- 8<sup>th</sup> IWA Microbial Ecology and Water Engineering Specialist Conference, 17-20 November 2019, Hiroshima (Japan): "Polyhydroxyalkanoates production from Organic Fraction of Municipal Solid Waste: microbiome changes and link with the process parameters". S. Crognale, B. Tonanzi, **F. Valentino**, M. Majone, S. Rossetti.

- 3<sup>rd</sup> IWA Resource Recovery Conference (IWARR 2019), 8-12 September 2019, Venice (Italy): "An urban biorefinery for food waste and biological sludge conversion into polyhydroxyalkanoates and biogas". G. Moretto, **F. Valentino**, D. Bolzonella, P. Pavan, M. Majone.

- ESBP 2019, 10th European Symposium on Biopolymer, 25-27 September 2019 – Straubing (Germany): "An urban biorefinery for food waste and biological sludge conversion into polyhydroxyalkanoates and biogas". **F. Valentino**, G. Moretto, D. Bolzonella, P. Pavan, M. Majone.

#### Workshop

- "4th Workshop on Polyhydroxyalkanoates Production by Mixed Microbial Cultures", September 20th– 21th 2012, Rome (Italy).

- "5th Workshop on PHA production by microbial consortia" Toulouse, 11th-12th September 2014 FOURIER Amphitheater INSA-Toulouse, France.

- "6th" Workshop on PHA production by microbial consortia" Venice, 11th-12th September 2019, Italy.

#### Brevetti

1) "Method for increased productivity of polyhydroxyalkanoates (PHAs) in fed-batch processes for biomass derived from the treatment of wastewater". WO2014/108878, PCT/IB2014/058242. A. Werker, F. Morgan-Sagastume, L. Karabegovic, S. Bengtsson, **F. Valentino**, M. Majone (2014).

2) "Process for enhancing polyhydroxyalkanoate accumulation in activated sludge biomass". WO2016/020884, PCT/IB2015/055993. M. Majone, **F. Valentino**, M. Hjort, S. Bengtsson, F. Morgan-Sagastume, A. Werker (2016).

3) "Un processo di digestione anaerobica a fasi separate con un ricircolo dinamico di digestato" P020474IT. P. Pavan, M. Gottardo, C. Cavinato, F. Micolucci, D. Bolzonella, M. Majone, **F. Valentino** (2018).

4) "Metodo per la produzione di Polioidrossialcanoati (PHA) da rifiuti organici ad alto contenuto di solidi" P020105IT - "Method for polyhydroxyalkanoates (PHA) production from organic waste with high solid content" 17247PTWO - Majone, **F. Valentino**, F. Micolucci, M. Gottardo. P. Pavan, D. Bolzonella (2019).

#### Progetti

- EU FP7 Ecobiocap: ecoefficient biodegradable composite advanced packaging ([www.ecobiocap.eu](http://www.ecobiocap.eu)), GA 265669.

- EU FP7 Routes: novel processing routes for effective sewage sludge management ([www.euroutes.org](http://www.euroutes.org)), GA 265156.

- IT BRIC-INAIL: Process development in the frame of Industrial Biotechnology and health-safety aspects.

- EU H2020 Smart-Plant: Scale-up of low-carbon footprint material recovery techniques in existing wastewater treatment plants ([www.smart-plant.eu](http://www.smart-plant.eu)), GA 690323.

- EU H2020 NoAW: No Agricultural Waste ([www.noaw2020.eu](http://www.noaw2020.eu)), GA 688338.

- EU H2020 ResUrbis: Resources from urban bio-waste ([www.resurbis.eu](http://www.resurbis.eu)), GA 7303499.

- EU H2020 Glopac: Granting society with low environmental impact innovative packaging ([www.glopac2020.eu](http://www.glopac2020.eu)), GA 773375.