

**Prof. Dr. Paola Branduardi**

Born: March 16, 1969. Nationality: Italian.

Milano, Via Caduti in Missione di Pace, 3 – 20126

FC: BRNPLA69C56F205Y



Working place: University of Milano-Bicocca,

Dept of Biotechnology and Biosciences

Working address: Piazza della Scienza, 2 – 20126 Milano, Italy

Telephone: ( +39) 02 64483418 Fax ( +39) 02 64483565

E-mail: paola.branduardi@unimb.it

Working post: Full Professor in Chemistry of Fermentation and Industrial Microbiology (SSD CHIM/11); ORCID: <https://orcid.org/0000-0003-4115-7015>

### ***Education***

- 1993: Master Degree in Biological Sciences (University of Milano), 110/110 cum Laude
- 1993-1996: Fellowships on Cellular and Molecular Biology at the University of Milano
- 2000: PhD in Molecular and Cellular Biology (University of Milano)
- 2000-2002: Postdoctoral Researcher on Metabolic Engineering at the University of Milano Bicocca, Dept. of Biotechnology and Biosciences.

### ***Academic title***

- 2002-2010: Assistant Professor in Chemistry of Fermentation and Industrial Microbiology at the University of Milano Bicocca, Dept. of Biotechnology and Biosciences;
- 2010-2017: Associate Professor in Chemistry of Fermentation and Industrial Microbiology at the University of Milano Bicocca, Dept. of Biotechnology and Biosciences;
- 21/01/2015: National habilitation as Full Professor;
- 03/2017-today: Full Professor in Chemistry of Fermentation and Industrial Microbiology at the University of Milano Bicocca, Dept. of Biotechnology and Biosciences;

### ***Teaching activities***

Lecturer of Industrial Microbiology and Industrial Processes and Biorefineries for the Biotechnology Course (Bachelor); Lecturer of Microbiology for the Biological Science Course (Bachelor)

### ***Academic activities***

- Member of the “Commissione Lingue di Ateneo” at the University of Milano-Bicocca;
- Representative for the Department of Biotechnology and Biosciences of the “Gruppo di lavoro EU-KIC-raw materials” at the University of Milano-Bicocca;
- Coordinator of the PhD Committee of the PhD course in Biology and Biotechnology at the University of Milano-Bicocca;

### ***Tutoring and Supervising of Bachelor, Master, and PhD programs and thesis***

- Tutor of several student Bachelor degree (about 10 per year, from 2010) and Master degree (about 4 per year, from 2010) thesis in Biotechnology and Industrial Biotechnology, respectively; Tutor of several student Bachelor degree (about 5 per year, from 2017) and Master degree (about 1 per year, from 2017) thesis in Biological Science.
- Tutor of 15 PhD students, 10 of which were already honoured with the title.

### ***Peer reviewed output:***

- 58 peer reviewed publications (40 research papers, 14 reviews and 4 editorials);
- 7 book chapters;
- 8 patent applications (PA); 6 of them obtained the PCT status, 5 were subsequently licensed;
- 14 invited lectures at international congresses, 3 invited lectures at national congresses.

### **Bibliometric data** (Google scholar):

Citations: 2389 - h-index: 22 - i10 index: 35

### ***Current research interests***

Development in applied microbiology and biotechnology, by tailoring recombinant microbial strains, mainly conventional and non-conventional yeasts, for the production of heterologous proteins, fine and bulk chemicals, biofuels, nutraceuticals. Metabolic engineering, flow cytometry, screening protocols and adaptive laboratory evolution are the approaches used to design strains with the desired features, including robustness against stress. The three main pillars are: 1) Bioprospecting for developing novel cell factories; 2) Robustness as desired trait for completing the engineering of desired cell factories 3) Biomass valorization by matching industrial needs and microbial strain physiology. The final aim is to develop sustainable process of production in the logic of 2<sup>nd</sup> and 3<sup>rd</sup> generation biorefineries, by exploiting natural abilities of microorganisms and by implementing them with synthetic biology tools that can enhance the effect of induced metabolic rewiring.

### ***Research group composition and Internationalization***

At present, 15 people (4 post-docs, 5 PhD students, 3 fellowship researcher and 3 master diploma students) compose the research team.

#### Internationalization (2015-2017):

##### *Master Student:*

**Irene Zanovello**, from Beuth University of Applied Sciences, Berlin

##### *PhD students:*

**Manuela Gottardi**, Goethe University, Frankfurt; **Raùl Ortiz Merino**, University College of Dublin (UCD)

##### *Post-Doc:*

**Jan Dines Knudsen**, from Lund University (supervisor: Dr. Carlquist)

***Opponent, Committee Member and International Evaluator for PhD defence (2012-2017)***

- June 2012, International Evaluator of the PhD thesis of Marc Carnicer Heras entitled "Systematic metabolic analysis of recombinant *Pichia pastoris* under different oxygen conditions. A metabolome and fluxome based study." tutor: Proff Pau Ferrer Alegre / Joan Albiol Sala, Universitat Autònoma de Barcelona;
- April 2013, Chalmers University of Technology, Göteborg: Opponent for the PhD defence of Kanokarn Kocharin about her project entitled "Metabolic Engineering in *Saccharomyces cerevisiae* for polyhydroxybutyrate production" tutor: Prof Jens Nielsen;
- June 2013, Department of Genetics and Microbiology, Universitat Autònoma de Barcelona. Opponent for the PhD defence of Joan Domingo i Espín about his project entitled "Development and characterization of artificial viruses for gene therapy" tutor: Proff Esther Vázquez, Antonio Villaverde;
- April 2014, Member of the Committee of the Final exam of the PhD course in Industrial Biotechnology at the University of Napoli, Federico II;
- October 2014, Member of the Committee of the exam for the admission at the PhD course in Biology and Biotechnology at the University of Milano Bicocca, Department of Biotechnology and Biosciences;
- April 2016, Department of Biotechnology, TU Delft. Opponent for the PhD defence of Nicholas Milne about his project entitled "Engineering nitrogen uptake and branched-chain amino acid metabolism in *Saccharomyces cerevisiae*" tutor: Proff Jean Marc Darand, Jack Pronk;
- June 2016, Department of Biotechnology, University of Natural Resources and Life Sciences, Vienna, Austria. Opponent for the PhD defence of Martina Bellasio about her project entitled "Production of Organic Acids from Lignocellulosic Material" tutor: Dr Michael Sauer, Prof Diethard Mattanovich;
- July 2016, Department of Genetics and Microbiology, Universitat Autònoma de Barcelona. Opponent for the PhD defence of Fabian L. Rueda A. about his project entitled "Self-structured protein nanomaterials produced in endotoxin-free microbial cells" tutor: Proff Elena Garcia Fruitos, Antonio Villaverde.

***Invited teaching at International Research Institutes (2012-2017)***

- December 2012: Espoo, VTT Technical Research Centre of Finland. "How to address biotech needs by exploiting and manipulating yeast physiology";
- April 2013: Chalmers University of Technology, Department of Chemical and Biological Engineering – Göteborg. "Sustainable production of biofuels by yeast fermentation";
- July 2014: ACIB Guest Lecture "Engineering the yeast mRNA metabolism for fishing the desired phenotype" Vienna;
- October 2014: European Summer School on Industrial Biotechnology, "Stability, Folding, and Misfolding of Recombinant Proteins". Lecture entitled "Synthetic biology and tools for recombinant proteins production"; Practical lessons about Golden Gate and Gibson cloning technologies;
- June 2016: Summer School event within the Marie Curie Initial Training Networks (ITN) Call: FP7-

PEOPLE-2013-ITN entitled "Yeast Cell Factories: Training Researchers to Apply Modern Post-Genomic Methods in Yeast Biotechnology (<http://yeastcell.eu/training/>). Lecture entitled "Yeasts plasma membrane and microbial production: our experience with lactic acid production";

- October 2016: Lecturer for Master Course in Biotechnology (total: 8 Hours) at the University College of Cork (UCC), Microbiology Department, Cork, Ireland
- October 2016: UCC Guest Lecture "Yeasts and stress responses: learning how to leverage cellular potential for matching industrial requirements" Cork, Ireland;

### ***Coordination activities - competitive grants – last 10 years***

- Coordinator of the project entitled "Apoptosi e morte cellulare in lievito: effetti della sintesi di acido ascorbico" granted by Fondazione Cariplo (2007-2008);
- PI of the local unit within the FP VII - Framework Program Seventh (2010-2012) entitled: "Systems Biology as a Driver for Industrial Biotechnology" (SYSINBIO);
- Participant and supervisor of the scientific and coordination activities of the Milano-Bicocca OU within the FP VII - Framework Program Seventh (2010-2013) entitled "Novel high performance enzymes and micro-organisms for conversion of lignocellulosic biomass to bioethanol" (NEMO);
- PI of the local unit for the Marie Curie Initial Training Networks (ITN) Call: FP7-PEOPLE-2013-ITN entitled "Yeast Cell Factories: Training Researchers to Apply Modern Post-Genomic Methods in Yeast Biotechnology (YeastCell) (2013 - );
- PI of the local unit within the KAVA project entitled "MiRaCLE, MIneral RAw materials replacement with nanoComposites by renewabLe Resources Exploitation" granted by the EIT/KIC RawMatters (KIC Raw Materials) (April 2016 - );
- Coordinator of the project: "MYSUSHI - Microalgae and Yeasts SUStainable fermentation for High quality fish feed formulation" granted by CARIPLLO Foundation – Program "Ricerca Integrata sulle biotecnologie industriali e sulla bioeconomia" (April 2016 - );
- PI of the local unit: "Sistemi Alimentari e Sviluppo sostenibile: creare sinergie tra ricerca e processi internazionali ed africani (SASS)" Ente Finanziatore: MIUR. CUP: H42F16002450001 (2017-2018)
- PI of the local unit: Marie-Curie MSCA European Joint Doctorates (EJD) H2020MSCAITN2017 (2017-): "Yeast Biotechnology Doctoral Training Programme (YEASTDOC)" [REA grant agreement number 764927];

### ***Coordination activities - Industrial grants – last 10 years***

PI of the following projects:

- "Fermentazioni microbiche per la produzione di enzimi di interesse industriale" granted by Actygea srl (2012); - "Piano di fattibilità per la produzione microbica di acido gibberellico " granted by AIFAR Agrochimica srl (2012); - "Sviluppo di un processo biotecnologico per la produzione di sali organici di Zinco e/o Ferro" granted by EcoZinder srl (2015-2016).
- "Sustainable microbial production of biosurfactants for degreasing applications in leather industry -

Feasibility study", granted by STAHL ITALY S.R.L.

Co-responsible, together with Prof. Porro:

- "Biofuels di II generazione" (B2G.it) granted by ENI Ricerche (2009-2012); - "Sviluppo di ceppi di lievito *Saccharomyces cerevisiae* tolleranti alla presenza di acido acetico per la produzione di etanolo di II generazione" granted by BioChemtex Italia Spa (2010-2012); - "Sviluppo di lieviti ricombinanti per la funzionalizzazione di acidi grassi" granted by Novamont SpA (2010-2012); - "Selezione di ceppi di *Escherichia coli* ricombinanti, sviluppo delle corrispondenti banche cellulari e fermentazioni" granted by Explora LABORATORIES SA (2012).

### ***Other qualifying activities***

#### ***Member of Scientific and Organizing Committees***

- Member of the Microbial Physiology Section of the European Federation of Biotechnology;
- Member of the Advisory Board of the Italian Scientific Society SIMGBM, Società Italiana di Microbiologia Generale e Biotecnologie Microbiche;
- Member of the organizing committee of the 4<sup>th</sup> International Conference on Recombinant Protein Production with Prokaryotic and Eukaryotic cells: a comparative view on host physiology. Barcelona, Spain, 2006;
- Co-chair of the 1<sup>st</sup> Conference of the series entitled: "MICROBIAL STRESS from Molecules to Systems" that was held in Semmering, Austria, May 2009;
- Chair of the 2<sup>nd</sup> Conference of the series entitled: "MICROBIAL STRESS from Molecules to Systems" that was held in Belgirate, Italy, May 2012;
- Chair of the Summer School event (June-July 2013) within the Marie Curie Initial Training Networks (ITN) Call: FP7-PEOPLE-2013-ITN entitled: "Yeast Cell Factories: Training Researchers to Apply Modern Post-Genomic Methods in Yeast Biotechnology (<http://yeastcell.eu/training/>);
- Co-chair, together with Prof. Marina Lotti, of the first edition of the European Summer School on Industrial Biotechnology (ESSIB): "Stability, Folding, and Misfolding of Recombinant Proteins" Milano, Oct 6-10, 2014;
- Co-chair of the 3<sup>rd</sup> Conference of the series entitled: "MICROBIAL STRESS from Molecules to Systems" that was held in Sitges, Spain October 2015;
- Member of the Scientific Committee of the conference: "ISSY33 - Exploring and Engineering Yeasts for Industrial Application". Venue: Cork, Ireland, June 2017;
- Member of the Scientific Committee of the upcoming conference: "Microbial Stress: From Systems to Molecules and Back". Venue: Kinsale, Ireland, April 2017;
- On behalf of the European Federation of Biotechnology, chair of the 7<sup>th</sup> Conference of the series entitled: "Physiology of Yeast and Filamentous Fungi - PYFF" that will be held in, Italy, 2019.
- Invited as a member of the Scientific Committee of the upcoming ICY (International Yeast Conference). Venue: Vienna, Austria, 2020.

#### ***Editor and Ad Hoc reviewer for Journals and Research Project***

"Associate Editor" for the following Journals: Microbial Cell Factories, Engineering in Life Sciences,

FEMS Yeast Research, Yeast, The Open Mycology, Scientific Reports;

“Ad hoc Reviewer” for the following Journals: FEMS Microbiology Letters; Microbial Cell Factories; FEMS Yeast Research; Microbiology; AMB Express; Engineering in Life Sciences, The Open Mycology; Biotechnology for Biofuels; BMC Biotechnology; J of Bioscience and Bioengineering; Applied Microbiology and Biotechnology; Frontiers in Microbial Physiology and Metabolism; PloS ONE; Letters in Applied Microbiology; Metabolic Engineering; mBio.

**“Ad hoc Reviewer” for the following programme for Research Project Evaluation:**

- ) GACR Grantová agentura České republiky, Czech Science Foundation, Czech Republic;
- ) Fund for Scientific Research (F.R.S.-FNRS), Belgium;
- ) SIR (Scientific Independence of young Researchers) 2014, Italy;
- ) VQR 2011-2014, Italy.

**Member of committee for Professor/Researcher positions:**

- ) 2016: “External reviewer” for an open position as Assistant Professor at Chalmers University, Gothenburg.
- ) 2017: Membro di commissione della procedura di valutazione per la chiamata di n.1 Professore di seconda fascia ai sensi dell’art. 24, comma 6 della Legge 240/2010 per il Settore concorsuale 03/D1 - Chimica e tecnologie farmaceutiche, tossicologiche e nutraceutico-alimentari e SSD CHIM/11 - Chimica e biotecnologia delle fermentazioni presso il Dipartimento di Scienze del farmaco dell'Università di Pavia
- ) 2017: Membro della commissione del Concorso Pubblico per l’assunzione a tempo pieno ed indeterminato per una posizione di Dirigente di Ricerca CNR, Area Strategica; CHIMICA VERDE E PROCESSI SOSTENIBILI

***Oral contribution-invited lectures at national and international conferences (2012-2017)***

- “Applied Synthetic Biology in Europe” (Barcelona, 2012): title of the oral contribution: “Microbial synthesis of Glucobrassicin” (Branduardi P, Codazzi V and Porro D);
- CNB XI 2012 (Varese, 2012): title of the oral contribution: “How to address biotech needs by exploiting and manipulating yeast physiology” (Branduardi P, Fossati T, Posterio R, Dato L, Martani F and Porro D);
- “Applied Synthetic Biology in Europe” (Malaga, November 2013): title of the oral contribution: “Yeast Post-Transcription Machinery Engineering for fishing desired phenotypes” (Branduardi P, Martani F and Porro D);
- “ISSY 2014” 31<sup>st</sup> International Specialised Symposium on Yeast (Vipava, Nova Goriza, October 2014): title of the oral contribution: “Engineering the yeast mRNA metabolism for fishing the desired phenotype” (Branduardi P, Martani F, Marano F, Bertacchi S and Porro D);
- Microbiology Society Annual Conference 2016 (ACC Liverpool, March 2016): title of the oral contribution: “*Zygosaccharomyces bailii*: reorientating a spoilage yeast for biotechnology” (Branduardi P, Kuanyshev N and Porro D).

- EUROPEAN SUMMIT OF INDUSTRIAL BIOTECHNOLOGY (Graz, Austria, November 2016) “Design versus Introduction of New Products”: title of the oral contribution: “Industrially oriented academic projects for the development of bio-based processes” (Branduardi P).
- International Symposium “Yeasts as versatile testbeds for the Life Sciences” (Madrid, October 2016, Fundación Ramón Areces): title of the oral contribution: “Yeasts and stress responses: learning how to leverage cellular potential for matching industrial requirements” (Branduardi P, Martani F, Berterame MN, Brambilla M, Bertacchi S, and Porro D).
- Workshop "Third Generation Biorefineries", (Bologna, March 23- 24, 2017 Fondazione Golinelli): title of the oral contribution: “Biofuels production from microbial fermentation of residual biomasses: challenges and solutions” (Branduardi P, Martani F, Berterame MN and Porro D);
- Symposium SBI (Biologia Cellulare e Molecolare, Biotecnologie e Differenziamento, Milano, June 2017): title of the oral contribution: “Microbial cell factories in the Circular Bioeconomy: learning how to leverage cellular potential for valorizing plant waste” (Branduardi P, Martani F, Berterame MN, Brambilla M, Bertacchi S, and Porro D).

### ***Outreach and Science communication (2012-2017)***

- 05/04/2013

TV program entitled “PLA, bioplastiche e bioreattori” for “Geo Scienza”, RAI3  
(<http://www.rai.tv/dl/RaiTV/programmi/media/ContentItem-ab9b1523-6509-4feb-a232-7bbdf8309c5a.html>);

- 04/06/2013

article entitled “Oltre l'etanolo: Un futuro per l'auto prodotta dagli "scarti" delle biomasse”:  
Interview for “Quattroruote”, Eco news  
([http://www.quattroruote.it/news/eco\\_news/2013/06/04/un\\_futuro\\_per\\_lauto\\_prodotta\\_dagli\\_scarti\\_delle\\_biomasse.html](http://www.quattroruote.it/news/eco_news/2013/06/04/un_futuro_per_lauto_prodotta_dagli_scarti_delle_biomasse.html));

- 10/05/2014

Title: “Biotecnologie: nuove risposte per vecchie domande”  
Presentation with open discussion within the program “IL FUTURO CI INSEGUE” (October 2013– June 2014), at Centro Coscienza, corso di Porta Nuova 16, Milano  
(<http://www.centrocoscienza.it/argomenti/il-futuro-ci-insegue/>;  
<https://www.facebook.com/events/1386461614973615/>);

- September 2015

MEET ME TONIGHT, Researchers’ night: “Foodomic interactive lab”.  
Initiative with experiments, games and talk addressed to public engagement, from kids in school to any person interested in approaching experimental applied science.

- September 2016

MEET ME TONIGHT, Researchers’ night: “MYSUSHI project from lab to society, from society to lab”  
in collaboration with Fondazione Cariplo e Museo della Scienza e Tecnologia di Milano.

Initiative with experiments, games and talk addressed to public engagement, from kids in school to any person interested in approaching experimental applied science.

- December 2017

Contribution for "Automazione Oggi" entitled "*Nano e bio: i due prefissi dei materiali innovativi*" (Authors: Stefano Bertacchi, Nadia Maria Berterame, Paola Branduardi)

***Peer Reviewed Publications of the last 5 years (2012-2017, excluding book chapters and patent applications)***

- P1:** Mattanovich D, Branduardi P, Dato L, Gasser B, Sauer M, Porro D (2012) "*Recombinant protein production in yeasts*" *Methods Mol Biol*, 824:329-58.
- P2:** Fossati T, Cole JA, Longo V, Porro D, Branduardi P (2013) "*Microbial stress: from molecules to systems (Belgirate, May 2012)*" *N Biotechnol*, 30(2):105-8.
- P3:** Branduardi P, de Ferra F, Longo V and Porro D (2013) "*Microbial n-butanol production from Clostridia to non-Clostridial hosts*" *Eng Life Sci*, 14(1), 16-26.
- P4:** Martani F, Fossati T, Posteri R, Signori L, Porro D, Branduardi P (2013) "*Different response to acetic acid stress in Saccharomyces cerevisiae wild-type and l-ascorbic acid-producing strains*" *Yeast*, 30(9):365-78.
- P5:** Branduardi P, Longo V, Berterame NM, Rossi G, Porro D (2013) "*A novel pathway to produce butanol and isobutanol in Saccharomyces cerevisiae*" *Biotechnol Biofuels*, 6(1):68.
- P6:** Porro D, Branduardi P, Sauer M, Mattanovich D (2014) "*Old obstacles and new horizons for microbial chemical production*" *Curr Opin Biotechnol*, 30:101-6.
- P7:** Ami D, Posteri R, Mereghetti P, Porro D, Doglia SM, Branduardi P (2014). "*Fourier transform infrared spectroscopy as a method to study lipid accumulation in oleaginous yeasts*" *Biotechnol Biofuels* 7(1):12.
- P8:** Signori L, Passolunghi S, Ruohonen L, Porro D, Branduardi P (2014) "*Effect of oxygenation and temperature on glucose-xylose fermentation in Kluyveromyces marxianus CBS712 strain*" *Microb Cell Fact*, 13(1):51.
- P9:** Wallace-Salinas V, Signori L, Li YY, Ask M, Bettiga M, Porro D, Thevelein JM, Branduardi P, Foulquié-Moreno MR, Gorwa-Grauslund M (2014). "*Re-assessment of YAP1 and MCR1 contributions to inhibitor tolerance in robust engineered Saccharomyces cerevisiae fermenting undetoxified lignocellulosic hydrolysate*". *Amb Express*, 4(1), 1.
- P10:** Dato L, Berterame NM, Ricci MA, Paganoni P, Palmieri L, Porro D, Branduardi P (2014). "*Changes in SAM2 expression affect lactic acid tolerance and lactic acid production in Saccharomyces cerevisiae*" *Microbial cell factories*, 13(1), 1.
- P11:** Martani F, Marano F, Bertacchi S, Porro D, Branduardi P (2015) "*The Saccharomyces cerevisiae poly(A) binding protein Pab1 as a target for eliciting stress tolerant phenotypes*" *Sci Rep* 5:18318.
- P12:** Brambilla M, Adamo GM, Frascotti G, Porro D, Branduardi P (2016) "*Physiological Effects of GLT1*



*Modulation in Saccharomyces cerevisiae Strains Growing on Different Nitrogen Sources* J Microbiol Biotechnol. 26(2):326-36.

- P13:** Berterame NM, Porro D, Ami D, Branduardi P (2016) *“Protein aggregation and membrane lipid modifications under lactic acid stress in wild type and OPI1 deleted Saccharomyces cerevisiae strains”* Microb Cell Fact 15(1):39.
- P14:** Signori L, Ami D, Posteri R, Giuzzi A, Mereghetti P, Porro D, Branduardi P (2016) *“Assessing an effective feeding strategy to optimize crude glycerol utilization as sustainable carbon source for lipid accumulation in oleaginous yeasts”* Microb Cell Fact. 15:75.
- P15:** Branduardi P, Porro D (2016) *“n-butanol: challenges and solutions for shifting natural metabolic pathways into a viable microbial production”* FEMS Microbiol Lett. 363(8).
- P16:** Kuanyshev N, Ami D, Signori L, Porro D, Morrissey JP, Branduardi P (2016) *“Assessing physio-macromolecular effects of lactic acid on Zygosaccharomyces bailii cells during microaerobic fermentation”* FEMS Yeast Res. 16(5).
- P17:** Provenzano AR, Posteri R, Giansanti F, Angelucci F, Flavell DJ, Flavell SU, Fabbrini MS, Porro D, Ippoliti R, Ceriotti A, Branduardi P, Vago R (2016) *“Optimization of construct design and fermentation strategy for the production of bioactive ATF-SAP, a saporin based anti-tumoral uPAR-targeted chimera.”* Microb Cell Fact 15(1):194.
- P18:** Martani F, Berterame NM, Branduardi P (2017) *“Microbial stress: from molecules to systems (Sitges, November 2015)”* N Biotechnol, 35:30-34.
- P19:** Gottardi M, Knudsen JD, Prado L, Oreb M, Branduardi P, Boles E (2017) *“De novo biosynthesis of trans-cinnamic acid derivatives in Saccharomyces cerevisiae.”* Appl Microbiol Biotechnol, 101(12): 4883-4893. doi: 10.1007/s00253-017-8220-x.
- P20:** Ortiz-Merino RA, Kuanyshev N, Braun-Galleani S, Byrne KP, Porro D, Branduardi P, Wolfe KH (2017) *“Evolutionary restoration of fertility in an interspecies hybrid yeast, by whole-genome duplication after a failed mating-type switch.”* PLoS Biol, 15(5): e2002128. doi: 10.1371/journal.pbio.2002128.
- P21:** Kuanyshev N, Adamo GM, Porro D, Branduardi P (2017) *“The spoilage yeast Zygosaccharomyces bailii: Foe or friend?”* Yeast, 34(9):359-370. doi: 10.1002/yea.3238.
- P22:** Martani F, Beltrametti F, Porro D, Branduardi P, Lotti M (2017) *“The importance of fermentative conditions for the biotechnological production of lignin modifying enzymes from white-rot fungi.”* FEMS Microbiol Lett, 364(13). doi: 10.1093/femsle/fnx134.
- P23:** Berterame NM, Bertagnoli S, Codazzi V, Porro D, Branduardi P (2017) *“Temperature-induced lipocalin (TIL): a shield against stress-inducing environmental shocks in Saccharomyces cerevisiae.”* FEMS Yeast Res, 17(6). doi: 10.1093/femsyr/fox056.
- P24:** Brambilla M, Martani F, Branduardi P (2017) *“The recruitment of the Saccharomyces cerevisiae poly(A)-binding protein into stress granules: new insights into the contribution of the different protein domains.”* FEMS Yeast Res, 17(6). doi: 10.1093/femsyr/fox059.
- P25:** Branduardi P, Sauer M (2017) *“Microbial carbon dioxide fixation: new tricks for an old game.”* FEMS Microbiol Lett. doi: 10.1093/femsle/fnx269.
- P26:** Ortiz-Merino RA, Kuanyshev N, Byrne KP, Varela JA, Morrissey JP, Porro D, Wolfe KH, Branduardi P (2017) *“Transcriptional response to lactic acid stress in the hybrid yeast Zygosaccharomyces*

*parabailii.*" Appl Environ Microbiol, doi: 10.1128/AEM.02294-17.

Milano, 29/12/2017

*Acide G.*