ANGELO BAÑARES

Postdoctoral Researcher
Environmental Waste Recycle Institute (EWRI)
Department of Energy Science and Technology
Myongji University, Natural Science Campus, South Korea
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Research Interest

- ❖ Metabolic Engineering
- ❖ Synthetic Biology
- ❖ Microbial Biotechnology
- ❖ Evolutionary Microbiology
- ❖ Structural Biology
- ❖ Phytochemicals

Metabolic engineering of *Escherichia coli* for the production of industrially-relevant compounds using lignocellulose-derived sugars and application of synthetic biology strategies for the optimization of engineered metabolic pathways.

Educational Qualification and Achievement

Doctor of Philosophy in Energy Science and Technology, August 2020
Myongji University, Yongin Campus, South Korea

Master of Science in Biology, October 2015
Pampanga State Agricultural University, Magalang, Pampanga, Philippines

Bachelor of Science in Biology (Cum laude and Best thesis award), April 12, 2012
Pampanga Agricultural College, Magalang, Pampanga, Philippines

Professional and Research Experience

2020-present	**Postdoctoral Researcher – Metabolic Engineering, Synthetic Biology, and Evolutionary Engineering** Department of Energy Science and Technology, Myongji University, South Korea
2016-2020	**Ph.D. Research/Graduate Research Assistant – Engineering of D-xylose metabolism in *Escherichia coli* through synthetic biology approaches** Department of Energy Science and Technology, Myongji University, South Korea
2015-2016	**Instructor 1 – Taught Molecular Biology, Biochemistry, and Physiology** Mabalacat City College, Pampanga
2013-2015	**Faculty Member – Taught Research and Laboratory Sciences** Pax et Lumen International Academy, A School for Science and Math

A. Selected Educational Certificates/Awards*

* **Best Research Award for Poster Presentation**, October 2018
  Korean Society for Biotechnology and Bioengineering

* **Best Research Award for Oral Presentation**, October 2019
  Korean Society for Biotechnology and Bioengineering

Courses in Synthetic and Systems Biology (Summer School), July 2017
University of Cambridge, United Kingdom **(Earned ECTS or credits)**

Proteins: Biology's Workforce, March 20, 2015
Rice University, USA (Edx)

Fundamentals of Immunology 1 and 2, December 2014
Rice University, USA (Edx)

Chemistry of Life, July 2014
Kyoto University, Japan (Edx)

Genomic Medicine, August 2014
Georgetown University, USA (Edx)

Selected Peer-Reviewed Publications over the Past 5 Years

Bañares AB, Nisola GM, Valdehuesa KNG, Lee WK, Chung WJ (2021) Understanding D-xylonic acid accumulation: a cornerstone for better metabolic engineering approaches. Appl Microbiol Biotechnol 105:5309–5324

Bañares AB, Nisola GM, Valdehuesa KNG, Lee WK, Chung WJ (2021) Engineering of xylose metabolism in *Escherichia coli* for the production of valuable compounds. Crit Rev Biotechnol. 9:1-30. doi: 10.1080/07388551.2021.1873243

Cabulong RB*, **Bañares AB***, Nisola GM, Lee WK, Chung WJ (2021) Enhanced glycolic acid yield through xylose and cellobiose utilization by metabolically engineered *Escherichia coli*. Bioprocess Biosyst Eng. doi: 10.1007/s00449-020-02502-6. **(co-first author)**

Bañares AB, Valdehuesa KNG, Ramos KRM, Nisola GM, Lee WK, Lee CR, Chung WJ (2020) A pH-responsive genetic sensor for the dynamic regulation of D-xylonic acid accumulation in Escherichia coli. Appl Microbiol Biotechnol 104:2097–2108. doi: 10.1007/s00253-019-10297-0

Ramos KRM, Valdehuesa KNG, Bañares AB, Nisola GM, Lee WK, Chung WJ (2020) Overexpression and characterization of a novel GH16 β-agarase (Aga1) from Cellulophaga omnivescoria W5C. Biotechnol Lett 42(11):2231-2238. doi: 10.1007/s10529-020-02933-x.

Weldehmret TG, Nisola GM, Ramos KRM, Valdehuesa KNG, **Bañares AB**, Lee W-K, Chung W-J (2020) Tyrosinase-Catalyzed Phenol-Mediated Immobilization of β-Agarase on l-Lysine-Coated Magnetic Particles for the Production of Neoagarooligosaccharides from Gelidium amansii. ACS Sustainable Chemistry & Engineering. 8 (9), 3573-3582. doi: 10.1021/acssuschemeng.9b05796

Tejano, AV., Reyes, AG., Dela Pena, ReA, Sula, LFI., and **Bañares, AB** (2020) Amelioration of Motor Behavioral Aberrations and Cerebellar Abnormalities by Ethanol Leaf Extract of Balakat Tree (*Ziziphus talanai* (Blanco) Merr.) in Valproic Acid Mice Model of Autism. Pharmaceutical Sciences Asia. doi: 10.29090/psa.2020.04.019.004

Weldehmret, TG*., **Bañares, AB***., Ramos, KRM., Nisola, GM., Valdehuesa, KNG., Lee, W-K, Chung W-J (2020) Current advances in ionic liquid-based pre-treatment and depolymerization of macroalgal biomass. Renewable Energy. 152, 283-299 doi: 10.1016/j.renene.2020.01.054. **(co-first author)**

Bañares AB, Valdehuesa KNG, Ramos KRM, Nisola GM, Lee W-K, Lee C-R, Chung W-J (2019) Discovering a novel D-xylonate-responsive promoter: the PyjhI-driven genetic switch towards better 1,2,4-butanetriol production. Appl Microbiol Biotechnol 103: 8063–8074. doi: 10.1007/s00253-019-10073-0

Cabulong RB, Valdehuesa KNG, **Bañares AB**, Ramos KRM, Nisola GM, Lee W-K, Lee C-R, Chung WJ (2019) Improved cell growth and biosynthesis of glycolic acid by overexpression of membrane-bound pyridine nucleotide transhydrogenase. J Ind Microbiol Biotechnol 46:159–169. doi: 10.1007/s10295-018-2117-2

Cabulong RB, Lee WK, **Bañares AB**, Ramos KRM, Nisola GM, Valdehuesa KNG, Chung W-J (2018) Engineering *Escherichia coli* for glycolic acid production from D-xylose through the Dahms pathway and glyoxylate bypass. Appl Microbiol Biotechnol 102 (5): 2179-2189. doi: 10.1007/s00253-018-8744-8

Valdehuesa KNG, Ramos KRM, Nisola GM, **Bañares AB**, Cabulong RB, Lee WK, Liu H, Chung, WJ (2018) Everyone loves an underdog: metabolic engineering of the xylose oxidative pathway in recombinant microorganisms. Appl Microbiol Biotechnol 102 (18):7703-7716. doi: 10.1007/s00253-018-9186-z

Reyes AG, Miclat AE, **Bañares AB**, Dela Pena RA (2018) Lack of antibacterial activity of aqueous and ethanolic leaf extracts of Ziziphus talanai (Blanco) Merr. Journal of Pharmaceutical Negative Results. Vol. 9(1), 44-48.

Reyes AG, Dela Pena R, Sula, LFI, Bañares, AB (2016) Histoprotective potentials of ethanol leaf extract of Balakat tree (Ziziphus talanai (Blanco) Merr.) against tetracycline-induced hepatotoxicity and reprotoxicity in male mice (Mus musculus L.). International Journal of Pharmacology and Toxicology. Vol. 4(2) (2016), 96-104. Doi:10.14419/ijptv4i2.6169

Selected Oral Presentations over the Past 3 Years

Title and Authors	Sponsoring Agency / Venue	Date
Engineering Engineering of Dahms Pathway in *Escherichia coli* for the Production of Valuable Compounds Authors: **Angelo B. Bañares**, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	HICO, Gyeongju-si, South Korea	October 6-9, 2021
Development of Robust Glycolic Acid-Producing E. coli strain through Evolutionary and Metabolic Engineering Authors: **Angelo B. Bañares**, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	BEXCO, Busan, South Korea	April 21-23, 2021
Application of Novel Xylonate-inducible Promoter for the Optimization of Xylose Oxidative Pathway in Engineered *Escherichia coli* Authors: **Angelo B. Bañares**, Kris Niño G. Valdehuesa , Kristine Rose M. Ramos, Teklebrahan Krstos, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	Maison Glad Jeju Hotel, Jeju, South Korea	April 10-12, 2019
Optimization of Weimberg Pathway Using Xylonic Acid-Responsive Biosensor (Rapid fire presentation) Authors: **Angelo B. Bañares**, Kris Niño G. Valdehuesa , Kristine Rose M. Ramos, Rhudith B. Cabulong, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	The Westin Grand Munich, Munich, Germany	June 24-28, 2018
Xylonic acid metabolism transcriptional regulation and its application for an optimized xylose oxidative pathway in *E.coli* Authors: **Angelo B. Bañares**, Kris Niño G. Valdehuesa*, Wook-Jin Chung* http://www.taosciences.it/ssbss/SSBSS-2017-Program.pdf	Robinson College, University of Cambridge, United Kingdom	July 17, 2017

Patents

Title of Inventions	Registration No.
ESCHERICHIA COLI PRODUCING GLYCOLATE FROM XYLOSE, METHOD FOR PREPARING THE SAME AND MET HOD FOR PRODUCING GLYCOLATE USING THE SAME (doi: 10.8080/1020170061244?urlappend=en)	1020033740000
EXPRESSION VECTOR FOR PRODUCING D-XYLOSE METABOLITES, TRANSFORMANT, AND BIOSENSOR FOR pH SENSING (doi: 10.8080/1020190073014?urlappend=en)	1020200084753
D-XYLONATE-RESPONSIVE PROMOTER, ARTIFICIAL GENETIC CIRCUITS COMPRISING D-XYLONATE-RESPON SIVE PROMOTER AND METHOD FOR DETECTION OF D-X YLONATE USING ARTIFICIAL GENETIC CIRCUIT (doi: 10.8080/1020190071339?urlappend=en)	1020200080106

Selected Conference proceedings over the past 4 years

Title and Authors	Sponsoring Agency / Venue	Date
Optimizing Cellobiose Consumption of *Escherichia coli* by Metabolic Engineering and Adaptive Laboratory Evolution Authors: Kris Niño G. Valdehuesa, **Angelo B. Bañares**, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	Hyatt Regency, Orlando,USA/2019 AICHE Annual Meeting	November 7-15, 2019
Development of Toxr-like pH Regulator for the Optimization of Dahms Pathway in Engineered Escherichia coli Authors: **Angelo B. Bañares**, Kris Niño G. Valdehuesa, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	Hyatt Regency, Orlando,USA/2019 AICHE Annual Meeting	November 7-15, 2019
Tyrosinase-Catalyzed Immobilization of β-Agarase onto L-lysine-Coated Magnetic Nanoparticles for the Conversion of *Gelidium amansii* into Biologically-Active Neoagarooligosaccharides Authors: Teklebrahan Krstos, Grace M. Nisola , Kris Niño G. Valdehuesa , Kristine Rose M. Ramos, **Angelo B. Bañares,** Wook-Jin Chung, Won-Keun Lee	EXCO, Daegu, South Korea /Korean Society for Biotechnology and Bioengineering	April 9-11, 2019
One-pot Production of 3, 6-anhydro-L-galactose and D-galactose from *Gelidium amansii* using Coimmobilized β-Agarase and α-Neoagarobiose Hydrolase on Magnetic Graphene Oxide Authors: Teklebrahan Krstos, Grace M. Nisola , Kris Niño G. Valdehuesa , Kristine Rose M. Ramos, **Angelo B. Bañares,** Wook-Jin Chung, Won-Keun Lee	EXCO, Daegu, South Korea /Korean Society for Biotechnology and Bioengineering	April 9-11, 2019
Implementing Tug of War Strategy to Optimize 3, 4-Dihydroxybutyric Acid Production from DXylose via Dahms Pathway in *Escherichia coli* **Angelo B. Bañares**, Kris Niño G. Valdehuesa, Teklebrahan Krstos, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	EXCO, Daegu, South Korea /Korean Society for Biotechnology and Bioengineering	April 9-11, 2019
Controlling the D-Xylonic Acid Accumulation in Engineered *Escherichia coli* using a CadC-derived pH Regulator **Angelo B. Bañares**, Kris Niño G. Valdehuesa, Teklebrahan Krstos, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	EXCO, Daegu, South Korea /Korean Society for Biotechnology and Bioengineering	April 9-11, 2019
Application of Novel Xylonate-inducible Promoter for the Optimization of Xylose Oxidative Pathway in Engineered *Escherichia coli* Authors: **Angelo B. Bañares**, Kris Niño G. Valdehuesa , Kristine Rose M. Ramos, Teklebrahan Krstos, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	Maison Glad Jeju Hotel, Jeju, South Korea /Korean Society for Biotechnology and Bioengineering	April 10-12, 2019
Ionic liquid pre-Treatment with Subsequent Enzymatic Saccharification of *Gelidium amansii* Using Recombinant Agarase Enzyme Cocktail for the Production of D-Galactose and 3,6-Anhydro-L-Galactose Authors: Teklebrahan Krstos , Grace M. Nisola, Kristine Rose M. Ramos, Kris Niño G. Valdehuesa, Grace M. Nisola , **Angelo B. Bañares**, Won-Keun Lee , Wook-Jin Chung*	Maison Glad Jeju Hotel, Jeju, South Korea/Korean Society for Biotechnology and Bioengineering	April 10-12, 2019
Overexpression of Membrane-bound Pyridine Nucleotide Transhydrogenase Lead to Improve Cell Growth and Biosynthesis of Glycolic Acid in *Escherichia coli* Authors: Rhudith B. Cabulong, Kristine Rose M. Ramos, **Angelo B. Bañares**, Grace M. Nisola , Won-Keun Lee , Kris Niño G. Valdehuesa Wook-Jin Chung*	Sejong University Convention Center, Seoul, South Korea /Korean Society for Biotechnology and Bioengineering	October 10-12,2018

Optimization of Weimberg Pathway through the Regulation of Xylonic Acid Accumulation by Responsive-upstream Element Authors: **Angelo B. Bañares**, Kris Niño G. Valdehuesa , Kristine Rose M. Ramos, Rhudith B. Cabulong, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	Sejong University Convention Center, Seoul, South Korea /Korean Society for Biotechnology and Bioengineering	October 10-12,2018
Metabolic Engineering of the Xylose Oxidative Pathway in *Escherichia coli* for the Production of Valuable Compounds Authors: **Angelo B. Bañares**, Kristine Rose M. Ramos, Rhudith B. Cabulong, Grace M. Nisola , Won-Keun Lee , Kris Niño G. Valdehuesa Wook-Jin Chung*	Sejong University Convention Center, Seoul, South Korea /Korean Society for Biotechnology and Bioengineering	October 10-12,2018
Dynamic Regulation of D-xylose Metabolism in *Escherichia coli* by a Novel Synthetic Genetic Control Circuit Authors: **Angelo B. Bañares**, Kris Niño G. Valdehuesa , Kristine Rose M. Ramos, Rhudith B. Cabulong, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	Sejong University Convention Center, Seoul, South Korea /Korean Society for Biotechnology and Bioengineering	October 10-12,2018
Design and Application of A xylose Oxidative Metabolic Genetic Control Circuit for *Escherichia coli* Authors: **Angelo B. Bañares**, Kristine Rose M. Ramos, Rhudith B. Cabulong, Grace M. Nisola , Won-Keun Lee , Kris Niño G. Valdehuesa Wook-Jin Chung*	Sejong University Convention Center, Seoul, South Korea /Korean Society for Biotechnology and Bioengineering	October 10-12,2018
Overexpression and Characterization of a Novel GH16 β-agarase Obtained from *Cellulophaga omnivescoria* W5C Authors: Rhudith B. Cabulong, **Angelo B. Bañares**, Kris Niño G. Valdehuesa, Grace M. Nisola , Won-Keun Lee, , Kristine Rose M. Ramos Wook-Jin Chung*	Sejong University Convention Center, Seoul, South Korea /Korean Society for Biotechnology and Bioengineering	October 10-12,2018
A Versatile Sugar Dehydrogenase for the Production of Aldonic Acids from Renewable Biomass Authors: Rhudith B. Cabulong, **Angelo B. Bañares**, Kris Niño G. Valdehuesa, Grace M. Nisola , Won-Keun Lee, , Kristine Rose M. Ramos Wook-Jin Chung*	Sejong University Convention Center, Seoul, South Korea/ Korean Society for Biotechnology and Bioengineering	October 10-12,2018
Optimization of 1, 2, 4-Butanetriol production using Xylonic Acid-Responsive Biosensor Authors: **Angelo B. Bañares**, Kris Niño G. Valdehuesa , Kristine Rose M. Ramos, Rhudith B. Cabulong, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	Palais de congres de Montreal, Quebec, Canada/International Biotechnology Society	August 12-17,2018
Optimization of Weimberg Pathway Using Xylonic Acid Responsive Biosensor **Angelo B. Bañares**, Kris Niño G. Valdehuesa , Kristine Rose M. Ramos, Rhudith B. Cabulong, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	The Westin Grand Munich, Munich, Germany/Metabolic Engineering Conference 12	June 24-28, 2018
Expression of NADPH-Generating Pntab in Improving Growth and Glycolic Acid Production from D-Xylose in *Escherichia coli*. Rhudith B. Cabulong, Kristine Rose M. Ramos, **Angelo B. Bañares**, Kris Niño G. Valdehuesa, Grace M. Nisola , Won-Keun Lee Wook-Jin Chung*	The Westin Grand Munich, Munich, Germany/Metabolic Engineering Conference 12	June 24-28, 2018
Biosynthesis of Aldonic Acids and C3-Diols from Renewable Biomass Using Engineered *Escherichia coli* Kristine Rose M. Ramos , Kris Niño G. Valdehuesa, **Angelo B. Bañares** , Rhudith B. Cabulong, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	The Westin Grand Munich, Munich, Germany/Metabolic Engineering Conference 12	June 24-28, 2018
Understanding the Metabolic Flux of Xylose Oxidative Pathway during the Production of Ethylene Glycol and Glycolic Acid Authors: Kris Niño G. Valdehuesa, **Angelo B. Bañares**, Kristine Rose M.	The Westin Grand Munich, Munich, Germany/Metabolic Engineering Conference 12	June 24-28, 2018

Ramos, Rhudith B. Cabulong, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*		
Rational Metabolic Engineering Studies on the Xylose Oxidative/Non-Phosphorylative Pathway in *Escherichia coli* for the Production of Valuable Compounds. Authors: Kris Niño G. Valdehuesa, **Angelo B. Bañares**, Kristine Rose M. Ramos, Rhudith B. Cabulong, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	The Westin Grand Munich, Munich, Germany/Metabolic Engineering Conference 12	June 24-28, 2018
Integrated Design of a Xylose Oxidative Metabolic Genetic Circuitry and Its Application in Biomass Utilization. Authors: Kris Niño G. Valdehuesa, **Angelo B. Bañares**, Kristine Rose M. Ramos, Rhudith B. Cabulong, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	The Westin Grand Munich, Munich, Germany/Metabolic Engineering Conference 12	June 24-28, 2018
Overexpression of NADPH-generating Enzymes for the Improvement of Glycolic Acid Production from D-xylose in Escherichia coli Authors: Rhudith B. Cabulong, Kristine Rose M. Ramos, **Angelo B. Bañares**, Kris Niño G. Valdehuesa, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	The Ocean Resort Yosu, South Korea/Korean Society for Biotechnology and Bioengineering	April 18-20,2018
Production of aldonic acids using a versatile sugar dehydrogenase by metabolically engineered *Escherichia coli* Authors: Kristine Rose M. Ramos , Kris Niño G. Valdehuesa, **Angelo B. Bañares** , Rhudith B. Cabulong, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	The Ocean Resort Yosu, South Korea/Korean Society for Biotechnology and Bioengineering	April 18-20,2018
Understanding the metabolic flux of xylose oxidative pathway during the production of ethylene glycol and glycolic acid Authors: Kris Niño G. Valdehuesa, **Angelo B. Bañares**, Kristine Rose M. Ramos, Rhudith B. Cabulong, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	The Ocean Resort Yosu, South Korea/Korean Society for Biotechnology and Bioengineering	April 18-20,2018
Overcoming decrease in extracellular pH using transcription factor-based biosensor in metabolically engineered *Escherichia coli* Authors: **Angelo B. Bañares**, Kris Niño G. Valdehuesa , Kristine Rose M. Ramos, Rhudith B. Cabulong, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	The Ocean Resort Yosu, South Korea/Korean Society for Biotechnology and Bioengineering	April 18-20,2018
Xylonic acid upstream element Authors: **Angelo B. Bañares**, Kris Niño G. Valdehuesa , Kristine Rose M. Ramos, Rhudith B. Cabulong, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung*	The Ocean Resort Yosu, South Korea/Korean Society for Biotechnology and Bioengineering	April 18-20,2018
Metabolic engineering and synthetic biology of xylose oxidative/non-phosphorylative metabolism in *Escherichia coli* for the production of C2 to C5 compounds Authors: Kris Niño G. Valdehuesa*, **Angelo B. Bañares**, Wook-Jin Chung* http://www.taosciences.it/ssbss/SSBSS-2017-Program.pdf	Robinson College, University of Cambridge, United Kingdom	July 17, 2017
Xylonic acid metabolism transcriptional regulation and its application for an optimized xylose oxidative pathway in *E.coli* Authors: **Angelo B. Bañares**, Kris Niño G. Valdehuesa*, Wook-Jin Chung* http://www.taosciences.it/ssbss/SSBSS-2017-Program.pdf	Robinson College, University of Cambridge, United Kingdom	July 17, 2017
Xylonic acid metabolism transcriptional regulation and its application for an optimized xylose oxidative pathway in *E.coli*	Hwabaek International Convention Center, Gyeongju, South Korea/Korean Society for Biotechnology and Bioengineering	April 5-7, 2017

Authors: **Angelo B. Bañares**, Kris Niño G. Valdehuesa, Kristine Rose M. Ramos, Perry Ayn Mayson Maza, Grace M. Nisola, Won-Keun Lee, Wook-Jin Chung* http://www.dbpia.co.kr/Journal/ArticleDetail/NODE07155385		
Design of Ccr-Independent Xylose Oxidative Metabolic Gene Circuit and Its Application In Biomass Utilization Authors: Kris Niño G. Valdehuesa, Kristine Rose M. Ramos, **Angelo B. Bañares**, Perry Ayn Mayson Maza, Grace M. Nisola, Won-Keun Lee, Wook-Jin Chung* http://www.dbpia.co.kr/Journal/ArticleDetail/NODE07155384	Hwabaek International Convention Center, Gyeongju, South Korea/Korean Society for Biotechnology and Bioengineering	April 5-7, 2017
Isolation of Novel Agarolytic bacteria from Red Macroalgae Authors: Perry Ayn Mayson Maza, Kris Niño G. Valdehuesa, Kristine Rose M. Ramos, **Angelo B. Bañares**,, Grace M. Nisola, Won-Keun Lee, Wook-Jin Chung* http://www.dbpia.co.kr/Journal/ArticleDetail/NODE07155442	Hwabaek International Convention Center, Gyeongju, South Korea/Korean Society for Biotechnology and Bioengineering	April 5-7, 2017
Characterization of A Novel A-Neoagarobiose Hydrolase and Its Application In The Synthesis of D-Galactonate From Gelidium Amansii Kristine Rose M. Ramos , Kris Niño G. Valdehuesa , Perry Ayn Mayson Maza , **Angelo B. Bañares** , Rhudith B. Cabulong, Grace M. Nisola , Won-Keun Lee , Wook-Jin Chung* http://www.dbpia.co.kr/Journal/ArticleDetail/NODE07155513	Hwabaek International Convention Center, Gyeongju, South Korea/Korean Society for Biotechnology and Bioengineering	April 5-7, 2017
Rational Metabolic Engineering of *Escherichia coli* for Ethylene Glycol Production from D-Xylose Authors: Rhudith B. Cabulong, Kris Niño G. Valdehuesa, Kristine Rose M. Ramos, Perry Ayn Mayson A. Maza, Jester O. Pangan, Angelo B. Bañares, Grace M. Nisola, Seong-Poong Lee, Won-Keun Lee, Chang Ro Lee, Wook-Jin Chung http://toc.proceedings.com/32408webtoc.pdf	Awaji Yumebutai International Conference Center, The Westin Awaji Island, Japan/Metabolic Engineering Conference 11	June 26-30,2016
Screening and Characterization of Novel Xylose Dehydrogenase for the Production of D-Xylonic Acid from DXylose in *Escherichia coli* Authors: Kris Niño G. Valdehuesa, Kristine Rose M. Ramos, Rhudith B. Cabulong, Perry Ayn Mayson A. Maza, Jester O. Pangan, **Angelo B. Bañares**, Grace M. Nisola, Seong-Poong Lee, Won-Keun Lee, Wook-Jin Chung http://toc.proceedings.com/32408webtoc.pdf	Awaji Yumebutai International Conference Center, The Westin Awaji Island, Japan/Metabolic Engineering Conference 11	June 26-30,2016
Engineering *Escherichia coli* for Production of Glycolic Acid from D-Xylose through Dahms Pathway Authors: Rhudith B. Cabulong, Kris Niño G. Valdehuesa, Kristine Rose M. Ramos, Perry Ayn Mayson A. Maza, Jester O. Pangan, **Angelo B. Bañares**, Grace M. Nisola, Seong-Poong Lee, Won-Keun Lee, Chang Ro Lee, Wook-Jin Chung	Awaji Yumebutai International Conference Center, The Westin Awaji Island, Japan/ Metabolic Engineering Conference 11	June 26-30,2016
Agar Metabolism of the New Marine Bacterium Cellulophaga Lytica W5C and Its Potential Use in Marine Biomass Conversions Authors: Kristine Rose M. Ramos, Kris Niño G. Valdehuesa, Rhudith B. Cabulong, Grace M. Nisola, Perry Ayn Mayson A. Maza, Jester O. Pangan, **Angelo B. Bañares**, Seong-Poong Lee, Soon-Kwang Hong, Won-Keun Lee, Wook-Jin Chung http://toc.proceedings.com/32408webtoc.pdf	Awaji Yumebutai International Conference Center, The Westin Awaji Island, Japan/ Metabolic Engineering Conference 11	June 26-30,2016

PERSONAL DATA

Date of Birth	: August 08, 1990
Place of Birth	: Balibago, Angeles City
Civil Status	: Single
Nationality	: Filipino
Religion	: Roman Catholic

REFERENCES

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I hereby certify that the above information is true and correct to the best of my abilities.

BAÑARES ANGELO