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## Controlling the virulence of *Pseudomonas aeruginosa* through inhibiting the synthesis of pyoverdine

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# Appendices



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## List of Scientific Contributions

### Publications

1. **Joko P. Wibowo**, Fernando A. Batista, Niels van Oosterwijk, Matthew R. Groves, Frank J. Dekker, and Wim J. Quax. A novel mechanism of inhibition by phenylthiourea on PvdP, a tyrosinase synthesizing pyoverdine of *Pseudomonas aeruginosa*. *International Journal of Biological Macromolecules*. **2020**. 146: 212–221
2. **Joko P. Wibowo**, Zhangping Xiao, Julian M. Voet, Frank J. Dekker, and Wim J. Quax. Development of phenylthiourea derivatives as allosteric inhibitors of pyoverdine maturation enzyme PvdP tyrosinase. *Bioorganic and Medicinal Chemistry Letters*. **2020**. 30(17): 1-6
3. **Joko P. Wibowo**, Jan G.T. Vogel, Hillina Fan, Rita Setroikromo, Kan Wang, Alexander Dömling, Frank J. Dekker, Wim J. Quax. Discovery of chromene compounds as inhibitors of PvdQ acylase of *Pseudomonas aeruginosa* (*Submitted*)
4. Sorayya Ghasemi, Zahra Lorigooini, **Joko P. Wibowo**, and Hossein Amini-khoei. Tricin isolated from *Allium atroviolaceum* potentiated the effect of docetaxel on PC3 cell proliferation: role of miR-21, *Natural Product Research*. **2018**. 33(12):1828-1831
5. Akram Torki, Tahereh Hosseinabadi, Sheida Fasihzadeh, Arezo Sadeghimanesh, **Joko P. Wibowo**, and Zahra Lorigooini. Solubility of calcium oxalate and calcium phosphate crystallization in the presence of crude extract and fractions from *Kelussia odoratissima* Mozaff. *Pharmacognosy Research*. **2018**.10(4):379-384
6. Bahram Hosseinzadeh Samani, Ava Behruzian, Mehrsa Behruzian, Sajad Rostami, **Joko P. Wibowo**, Gholamreaz Mobini, and Zahra Lorigooini. The Effect of Combined AC Electric Field-Ultrasound on Pasteurization and Chemical Compositions of Rose Aromatic water. *Journal of Essential Oil-Bearing Plants*. **2019**. 21(6):1493-1510
7. Fatemeh Jamshidi-Kia, **Joko P. Wibowo**, Mostafa Elachouri, Rohollah Masumi, Alizamen Salehifard-Jouneghani, Zohreh Abolhassanzadeh, and Zahra Lorigooini. Battle between plants as antioxidants with free radicals in human body. *Journal of Herbmed Pharmacology*. **2020**. 9(3):191-199

### Conferences

1. Pharmacy Day, **2017**, Groningen, Netherlands, PvdP enzyme, a new target for treating *P. aeruginosa* Infections (*Oral Presenter*).
2. Pharmacy Day, **2018**, Groningen, Netherlands, The crystal structure of PvdP, a tyrosinase of *P. aeruginosa* (*Oral Presenter*).
3. Bacterial Cell Envelope Meeting, **2019**, Groningen, Netherlands, Inhibiting biosynthesis of pyoverdine in *P. aeruginosa*, a non-competitive inhibitor of PvdP (*Oral Presenter*).
4. Webinar on the Dies Natalis of Faculty of Pharmacy University of Buana Perjuangan Karawang, **2020**, Karawang, Indonesia, PvdP is an unexplored target to develop a novel treatment against *P. aeruginosa* infection (*Oral Presenter, online*).

## About the Author

Joko Priyanto Wibowo, called shortly as Joko was born on 6<sup>th</sup> December 1984 in Sragen, Indonesia. He graduated from the University of Setia Budi in 2007 after completing his four-year bachelor study in Pharmacy. Two years later he obtained a professional pharmacist degree (apt.) at the same university. In 2013 he moved to Bandung to study Pharmaceutical Biology at Bandung Institute of Technology after he received a scholarship for his master degree



from LPDP. After finishing his thesis under the supervision of Prof. Sukrasno and Dr. Rika Hartati he graduated with Magister Sains (M.Si.) degree in 2015. In the spring of 2016, he moved to Groningen and started his PhD at the University of Groningen, Department of Chemical and Pharmaceutical Biology under the supervision of Prof. Wim J. Quax and Prof. Frank. J. Dekker. Here, he worked on the finding and the development of inhibitors to control the virulence of *Pseudomonas aeruginosa* via the inhibition of the synthesis of pyoverdine which is described in this thesis.