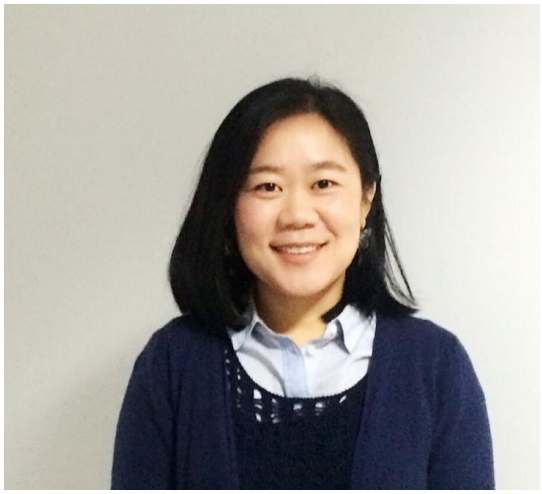
Na YU



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Research interest : [functions and molecular mechanisms of neuropeptide and GPCR in arthropods]

Biography

[2010.9-2014.9: Doctoral degree in Applied Biological Sciences, Ghent University, Belgium

2014.10-2016.7: Postdoc researcher in insect physiology, Ghent University, Belgium

2016.8-present: Lecturer and researcher in College of Plant Protection, Nanjing Agricultural University, China]

Research Projects

[**Research interests:**

Neuroendocrinology and behavior: to elucidate the endocrinological functions of neuropeptides and peptide hormones; to deorphanize G-protein coupled receptors (GPCRs) corresponding to neuropeptides, with the aim of rational targets of environment-friendly insecticides.

Projects:

2018.01-2020.12: Significance and receptor specificity of the development-regulating neuropeptides in Nilaparvata lugens and Pardosa pseudoannula. Funding from NNS F 31701823.]

Selected publications

[

1. Yu, N., Tian, J., Zhang, Y., Li, Z., Liu, Z. (2018) Imidacloprid-susceptible *Nilaparvata lugens* individuals exceeded resistant individuals in a mixture population with density pressure. *Pest. Manag. Sci* 74: 234–239. doi:10.1002/ps.4705.
2. Yu, N., Liu, Y., Wang, X., Li, J., Bao, H., Liu, Z. (2018) Heterologous formation of neonicotinoid-sensitive nAChRs containing UNC-38 and UNC-29 subunits from *Bursaphelenchus xylophilus*. *Pestic Biochem Physiol.* 143:168-172. doi: 10.1016/j.pestbp.2017.08.001.
3. Yu N., Zotti,M.J., Scheys, F., Braz, A.S.K, Penna, P.H.C, Nachman, R.J., Smagghe, G., 2015. Flexibility and extracellular opening determine the interaction between ligands and insect sulfakinin receptors. Scientific Reports 5, 12627. doi: 10.1038/srep12627.
4. Yu, N., Nachman, R.J., Smagghe, G., 2013. Characterization of sulfakinin and sulfakinin receptor and their roles in food intake in the red flour beetle *Tribolium castaneum*. General and Comparative Endocrinology 188, 196-203.doi: 10.1016/j.ygcen.2013.03.006.
5. Yu, N., Swevers, L., Nachman, R. J., Smagghe, G., 2014. Development of cell-based bioassay with Sf9 cells expressing TcSKR1 and TcSKR2 and differential activation by sulfated and non-sulfated SK peptides. Peptides 53, 238-242.doi: 10.1016/j.peptides.2014.01.025.]