

كرسي الدرعية للدراسات البيئية

النشأة

أنشأ كرسى الدرعية للدراسات البيئية بجامعة الملك سعود بموافقة ودعم من صاحب السمو الأمير أحمد بن عبد الله بن عبد الرحمن آل سعود محافظ الدرعية، وقد وقع سموه عقد انشاء الكرسى مع معالي مدير جامعة الملك سعود الأستاذ الدكتور عبد الله بن عبد الرحمن العثمان في يوم الأحد 1431/4/26 هـ الموافق 2010/4/11 م.

الأهمية

إن تزايد الأنشطة الإنمائية وهشاشة النظام البيئي والتغيرات المناخية المؤثرة على المكونات البيئية والحاجة إلى تطوير مدينة بيئية نموذجية، إضافة إلى الحاجة إلى بث الوعي البيئي في المجتمع كلها من الأسباب التي أدت إلى إنشاء كرسى الدرعية للدراسات البيئية للمساهمة بشكل فاعل في الحفاظ على ثروتنا البيئية. أيضاً يهدف الكرسى إلى زيادة النشر العلمي المتميز في مجالات علوم البيئة والنبات والأحياء الدقيقة، ويركز على الابتكار وتسجيل براءات الاختراع الاقتصادية للمساعدة في تنويع الاقتصاد الوطني حسب رؤية المملكة العربية السعودية 2030.

الرؤية

تبوء مركز الصدارة في الابتكار والنشر العلمي في مجالات الكرسى والوصول إلى مدينة بيئية نموذجية.

الرسالة

نحو بيئة منتجة للمعرفة العلمية من أجل تنمية مستدامة.

Addiriyah Research Chair for Environmental Studies

PATENTS

- **United States Patent No. 9493792:** “Process for production of yellow pigment from bacteria”: George Seghal Kiran, **Naif Abdullah Al-Dhabi**, Mariadhas Valan Arasu and Joseph Selvin,

RESEARCH AND PUBLICATIONS

PUBLICATIONS

➤ **Year 2017**

▪ **ISI Journals**

1. Sivaraman, G., Paulraj, M.G., Balakrishna, K., Irudayaraj, S.S., Ignacimuthu, S., & **Al-Dhabi, N.A.** (2017). Biological effects of active fraction isolated from *Hydnocarpus pentandra* (Bunch. –Ham.) Oken seeds against *Helicoverpa armigera* (Hub.) (Lepidoptera: Noctuidae). *Archives of Phytopathology and Plant Protection*, DOI: 10.1080/03235408.2017.1299416 (**IF: 0.290**)
2. Baskar, K., Sudha, V., Nattudurai, G., Ignacimuthu, S., Duraipandiyar, V., Jayakumar, M., **Al-Dhabi, N.A.**, & Benelli, G. (2017). Larvicidal and repellent activity of the essential oil from *Atalantia monophylla* on three mosquito vectors of public health importance, with limited impact on non-target zebra fish. *Physiological and Molecular Plant Pathology*. <http://dx.doi.org/10.1016/j.pmpp.2017.03.002> (**IF: 1.371**)
3. Vijayaraghavan, P., Rajendran, P., Vincent, S.G.P., Arun, A., **Al-Dhabi, N.A.**, Arasu, M.V., Kwon, O.Y., & Kim, Y.O. (2017). Novel Sequential Screening and Enhanced Production of Fibrinolytic Enzyme by *Bacillus* sp. IND12 Using Response Surface Methodology in Solid-State Fermentation. *BioMed Research International*, Article ID: 3909657. <https://doi.org/10.1155/2017/3909657> (**IF: 2.134**)
4. Irudayaraj, S.S. Sunil, C., Antony, S., Duraipandiyar, V., **Al-Dhabi, N.A.**, & Ignacimuthu, S. (2017). [Protective effects of *Ficus carica* leaves on glucose and lipids levels, carbohydrate metabolism enzymes and \$\beta\$ -cells in type 2 diabetic rats.](#) *Pharmaceutical Biology*, 55, 1074-1081, DOI: 10.1080/13880209.2017.1279671 (**IF: 1.546**)

5. Park, C.H., Yeo, H.J., Park, Y.J., Morgan, A.M.A., Arasu, M.V., Al-Dhabi, N.A., & Park, S.U. (2017). Influence of Indole-3-Acetic Acid and Gibberellic Acid on Phenylpropanoid Accumulation in Common Buckwheat (*Fagopyrum esculentum* Moench) Sprouts. *Molecules*, 22, 374-384. DOI:10.3390/molecules22030374 (IF: 2.465)
6. Li, X., Thwe, A.A., Park, C.H., Kim, S.J., Mariadhas Valan Arasu, Al-Dhabi, N.A., Lee, S.Y., & Park, S.U. (2017). Ethephon-induced phenylpropanoid accumulation and related gene expression in tartary buckwheat (*Fagopyrum tataricum* (L.) Gaertn.) hairy root. *Biotechnology & Biotechnological Equipment*, <http://dx.doi.org/10.1080/13102818.2017.1282835> (IF: 0.373)
7. Dong, M., Yu, D., Duraipandiyan, V., & Al-Dhabi, N.A. (2017). The Protective Effect of *Chrysanthemum indicum* Extract against Ankylosing Spondylitis in Mouse Models. *BioMed Research International*, 2017, Article ID 8206281. <https://doi.org/10.1155/2017/8206281> (IF: 2.134)
8. Arasu, A., Kumaresan, V., Ganesh, R., Pasupuleti, M., Arasu, M.V., Al-Dhabi, N.A., & Arockiaraj, J. (2017). Bactericidal activity of fish galectin 4 derived membrane-binding peptide tagged with oligotryptophan. *Developmental and Comparative Immunology*, 71, 37-48. <http://dx.doi.org/10.1016/j.dci.2017.01.019> (IF: 3.620)
9. Vasantha-Srinivasan, P., Senthil-Nathan, S., Ponsankar, A., Thanigaiavel, A., Edwin, E.S., Selin-Rani, S., Chellappandian, M., Pradeepa, V., Lija-Escaline, J., Kalaivani, K., Hunter, W.B., Duraipandiyan, V., & Al-Dhabi, N.A. (2017). Comparative analysis of mosquito (Diptera: Culicidae: *Aedes aegypti* Liston) responses to the insecticide Temephos and plant derived essential oil derived from *Piper betle* L. *Ecotoxicology and Environmental Safety*, 139, 439-446. <http://dx.doi.org/10.1016/j.ecoenv.2017.01.026> (IF: 3.130)
10. Antony, P.J., Gandhi, G.R., Stalin, A., Balakrishna, K., Toppo, E., Sivasankaran, K., Ignacimuthu, S., & Al-Dhabi, N.A. (2017). Myoinositol ameliorates high-fat diet and streptozotocin-induced diabetes in rats through promoting insulin receptor signalling. *Biomedicine & Pharmacotherapy*, 88, 1098-1113. <http://dx.doi.org/10.1016/j.biopha.2017.01.170> (IF: 2.326)
11. Kumaresan, V., Nizam, F., Ravichandran, G., Viswanathan, K., Palanisamy, R., Bhatt, P., Arasu, M.V., Al-Dhabi, N.A., Mala, K., & Arockiaraj, J. (2017). Transcriptome changes of blue-green algae, *Arthrospira* sp. in response to sulfate stress. *Algal Research*, 23, 96-103. <http://dx.doi.org/10.1016/j.algal.2017.01.012> (IF: 4.694)
12. Maran, J.P., Priya, B., Al-Dhabi, N.A., Ponmurugan, K., Moorthy, I.G., & Sivarajasekar, N. (2017). Ultrasound assisted citric acid mediated pectin

extraction from industrial waste of *Musa balbisiana*. *Ultrasonics Sonochemistry*, 35, Part A, 204-209. <http://dx.doi.org/10.1016/j.ultsonch.2016.09.019> (IF: 4.556)

13. Chun, J.H., Kim, S., Arasu, M.V., **Al-Dhabi, N.A.**, Chung, D.Y., & Kim, S.J. (2017). Combined effect of Nitrogen, Phosphorus and Potassium fertilizers on the contents of glucosinolates in rocket salad (*Eruca sativa* Mill.). *Saudi Journal of Biological Sciences*, 24, 436–443. <http://dx.doi.org/10.1016/j.sjbs.2015.08.012> (IF: 1.781)
14. Arasu, A., Kumaresan, V., Palanisamy, R., Arasu, M.V., **Al-Dhabi, N.A.**, Ganesh, M.R., & Arockiaraj, J. (2017). Bacterial membrane binding and pore formation abilities of carbohydrate recognition domain of fish lectin. *Developmental and Comparative Immunology*, 67, 202-212. <http://dx.doi.org/10.1016/j.dci.2016.10.001> (IF: 3.620)
15. Park, Y.J., Park, S.Y., Arasu, M.V., **Al-Dhabi, N.A.**, Ahn, H., Kim, J.K., & Park, S. U. (2017). Accumulation of carotenoids and metabolic profiling in different cultivars of Tagetes flowers. *Molecules*, 22, 313. DOI:10.3390/molecules22020313 (IF: 2.465)
16. Roopan, S.M., Bharathi, A., **Al-Dhabi, N.A.**, Arasu, M.V., & Madhumitha, G. (2017). Synthesis and insecticidal activity of acridone derivatives to *Aedes aegypti* and *Culex quinquefasciatus* larvae and non-target aquatic species. *Scientific Reports*, 7, Article Number: 39753. DOI: 10.1038/srep39753 (IF: 5.225)
17. **Al-Dhabi, N.A.**, Ponmurugan, K., & Maran, J.P. (2017). Development and validation of ultrasound-assisted solid-liquid extraction of phenolic compounds from waste spent coffee grounds. *Ultrasonics Sonochemistry*, 34, 206-213. <http://dx.doi.org/10.1016/j.ultsonch.2016.05.005> (IF: 4.556)
18. Sathyamoorthy, A., Chaurasia, M.K., Arasu, M.V., **Al-Dhabi, N.A.**, Harikrishnan, R., & Arockiaraj, J. (2017). Differences in structure and changes in gene regulation of murrel molecular chaperone HSP family during epizootic ulcerative syndrome (EUS) infection. *Fish & Shellfish Immunology*, 60, 129 - 140. <http://dx.doi.org/10.1016/j.fsi.2016.11.046> (IF: 3.025)

▪ **NON-ISI Journal**

19. Saravana Kumar, P., Stalin, A., Lakshmi Sundaram, R., Duraipandiyam, V., **Al-Dhabi, N.A.**, Yuvaraj, P., Balakrishna, K., & Ignacimuthu, S. (2017). Isolation of chemical constituents from *Nonomuraea* species: *In vitro* and *in silico* evaluation of its antibacterial properties. *Beni-Suef University Journal of Basic and Applied Sciences*, 6, 15–23. <http://dx.doi.org/10.1016/j.bjbas.2016.12.004>

➤ **Year 2016**

▪ **ISI Journals**

1. Haritha, E., Roopan, S.M., Madhavi, G., Elango, G., **Al-Dhabi, N.A.**, & Arasu, M.V. (2016). Environmental Friendly Synthesis of Palladium Nanoparticles and its Photocatalytic Activity Against Diazo Dye to Sustain the Natural Source. *Journal of Cluster Science*, 1-12. DOI: 10.1007/s10876-016-1136-2 (**IF: 1.664**)
2. Ramakrishnan, M., Ceasar, S.A., Duraipandiyan, V., **Al-Dhabi, N.A.**, & Ignacimuthu, S. (2016). Assessment of genetic diversity, population structure and relationships in Indian and non-Indian genotypes of finger millet (*Eleusine coracana* (L.) Gaertn) using genomic SSR markers. *Springer Plus*, 5, Article Number: 120. DOI: 10.1186/s40064-015-1626-y (**IF: 0.982**)
3. Biji, G.D., Arun, A., Muthulakshmi E., Vijayaraghavan, P., Arasu, N.A., & **Al-Dhabi, N.A.** (2016). Bio-prospecting of cuttle fish waste and cow dung for the production of fibrinolytic enzyme from *Bacillus cereus* IND5 in solid state fermentation. *3 Biotech*, 6, Article Number: 231. DOI 10.1007/s13205-016-0553-0 (**IF: 0.992**)
4. Aarti, C., Khusro, A., Arasu, M.V., Agastian, P., & **Al-Dhabi, N.A.** (2016). Biological potency and characterization of antibacterial substances produced by *Lactobacillus pentosus* isolated from Hentak, a fermented fish product of North-East India. *Springer Plus*, 5, Article Number: 1743. DOI 10.1186/s40064-016-3452-2 (**IF: 0.982**)
5. Surendra, T.V., Roopan, S.M., **Al-Dhabi, N.A.**, Arasu, M.V., Sarkar, G., & Suthindhiran, K. (2016). Vegetable Peel Waste for the Production of ZnO Nanoparticles and its Toxicological Efficiency, Antifungal, Hemolytic, and Antibacterial Activities. *Nanoscale Research Letters*, 11, 546. DOI: 10.1186/s11671-016-1750-9 (**IF: 2.584**)
6. Arasu, M.V., **Al-Dhabi, N.A.**, Ilavenil, S., Choi, K.C., Srigopalram, S. (2016). *In vitro* importance of probiotic *Lactobacillus plantarum* related to medical field. *Saudi Journal of Biological Sciences*, DOI: 10.1016/j.sjbs.2015.09.022 (**IF: 1.781**)
7. Edwin, E.-S., Vasantha-Srinivasan, P., Ponsankar, A., Thanigaivel, A., Selin-Rani, S., Mankin, R.W., Senthil-Nathan, S., Kalaiivani, K., Murali-Baskaran, R.K., Duraipandiyan, V., & **Al-Dhabi, N.A.** (2016). Effects of temperature and nonionizing ultraviolet radiation treatments of eggs of five host insects on production of *Trichogramma chilonis* Ishii (Hymenoptera: Trichogrammatidae) for biological control applications. *Journal of Asia-Pacific Entomology*, 19, 1139-1144. DOI: 10.1016/j.aspen.2016.09.011 (**IF: 0.824**)

8. Wang, J., Yang, M., Cao, M., Lin, Y., Che, L., Duraipandiyan, V., **Al-Dhabi, N.A.**, Fang, Z., Xu, S., Feng, B., Liu, G., & Wu, D. (2016). Moderately increased energy intake during gestation improves body condition of primiparous sows, piglet growth performance, and milk fat and protein output. *Livestock Science*, 194, 23-30. DOI: 10.1016/j.livsci.2016.09.012 (**IF: 1.292**)
9. Park, Y.J., Baskar, T.B., Yeo, S.K., Arasu, M.V., **Al-Dhabi, N.A.**, Lim, S.S., & Park, S.U. (2016). Composition of volatile compounds and *in vitro* antimicrobial activity of nine *Mentha* spp. *Springer Plus*, 5, Article Number: 1628. DOI 10.1186/s40064-016-3283-1 (**IF: 0.982**)
10. Liu, G., Chen, S., Fang, J., Xu, B., Li, S., Hao, Y., **Al-Dhabi, N.A.**, Deng, S., Duraipandiyan, V. (2016). Vancomycin microspheres reduce postoperative spine infection in an in vivo rabbit model *BMC Pharmacology and Toxicology*, 17, Article Number: 61. DOI: 10.1186/s40360-016-0105-6 (**IF: 2.030**)
11. Ponsankar, A., Vasantha-Srinivasan, P., Thanigaivel, A., Edwin, E.-S., Selin-Rani, S., Chellappandian, M., Senthil-Nathan, S., Kalaivani, K., Mahendiran, A., Hunter, W.B., Alessandro, R.T., Duraipandiyan, V., & **Al-Dhabi, N.A.** (2016). Response of *Spodoptera litura* Fab. (Lepidoptera: Noctuidae) larvae to *Citrullus colocynthis* L. (Cucurbitales: Cucurbitaceae) chemical constituents: Larval tolerance, food utilization and detoxifying enzyme activities. *Physiological and Molecular Plant Pathology*, DOI: 10.1016/j.pmpp.2016.12.006 (**IF: 1.371**)
12. Biswas, R., Mukherjee, P.K., Kar, A., Bahadur, S., Harwansh, R.K., Biswas, S., **Al-Dhabi, N.A.**, & Duraipandiyan, V. (2016). Evaluation of Ubtan - A Traditional Indian skin care formulation. *Journal of Ethnopharmacology*, 192, 283-291. DOI: 10.1016/j.jep.2016.07.034 (**IF: 3.055**)
13. Duraipandiyan, V., **Al-Dhabi, N.A.**, & Ignacimuthu, S. (2016). New antimicrobial anthraquinone 6,6(1)-bis (1,5,7-trihydroxy-3-hydroxymethylanthraquinone) isolated from *Streptomyces* sp. isolate ERI-26. *Saudi Journal of Biological Sciences*, 23, 731-735. DOI: 10.1016/j.sjbs.2016.02.008 (**IF: 1.781**)
14. Elango, G., Roopan, S.M., **Al-Dhabi, N.A.**, Arasu, M.V., Dhamodaran, K.I., & Elumalai, K. (2016). Coir mediated instant synthesis of Ni-Pd nanoparticles and its significance over larvicidal, pesticidal and ovicidal activities. *Journal of Molecular Liquids*, 223, 1249-1255. DOI: 10.1016/j.molliq.2016.09.070 (**IF: 2.740**)
15. Madhaiyan, M., Poonguzhali, S., Saravanan, V.S., Pragatheswari, D., Duraipandiyan, V., **Al-Dhabi, N.A.**, & Santhanakrishnan, P. (2016). *Paenibacillus methanolicus* sp. Nov., a xylanolytic, methanol-utilizing bacterium isolated from the phyllosphere of bamboo (*Pseudosasa japonica*). *International*

Journal of Systematic and Evolutionary Microbiology, 66, 4362-4366. DOI: 10.1099/ijsem.0.001356 (IF: 2.439)

16. Van Bree, L.G.J., Rijpstra, W.I.C., **Al-Dhabi**, N.A., Verschuren, D., Damste, J.S.S., & de Leeuw, J.W. (2016). Des-A-lupane in an East African lake sedimentary record as a new proxy for the stable carbon isotopic composition of C-3 plants. *Organic Geochemistry*, 101, 132-139. DOI: 10.1016/j.orggeochem.2016.09.003 (IF: 2.990)
17. Palaniraja, J., Roopan, S.M., Rayalu, G.M., **Al-Dhabi**, N.A., & Arasu, M.V. (2016). A metal-free regioselective multicomponent approach for the synthesis of free radical scavenging pyrimido-fused indazoles and their fluorescence studies. *Molecules*, 21, Article Number: 1571. DOI: 10.3390/molecules21111571 (IF: 2.465)
18. Pradeepa, V., Senthil-Nathan, S., Sathish-Narayanan, S., Selin-Rani, S., Vasantha-Srinivasan, P., Thanigaivel, A., Ponsankar, A., Edwin, E.-S., Sakthi-Bagavathy, M., Kalaivani, K., Murugan, K., Duraipandiyan, V., & **Al-Dhabi**, N.A. (2016). Potential mode of action of a novel plumbagin as a mosquito repellent against the malarial vector *Anopheles stephensi*, (Culicidae: Diptera). *Pesticide Biochemistry and Physiology*, 134, 84-93. DOI: 10.1016/j.pestbp.2016.04.001 (IF: 2.388)
19. Ponsankar, A., Vasantha-Srinivasan, P., Senthil-Nathan, S., Thanigaivel, A., Edwin, E.S., Selin-Rani, S., Kalaivani, K., Hunter, W.B., Alessandro, R.T., Abdel-Megeed, A., Paik, C.H., Duraipandiyan, V., & **Al-Dhabi**, N.A. (2016). Target and non-target toxicity of botanical insecticide derived from *Couroupita guianensis* L. flower against generalist herbivore, *Spodoptera litura* Fab. and an earthworm, *Eisenia foetida* Savigny. *Ecotoxicology and Environmental Safety*, 133, 260-270. DOI: 10.1016/j.ecoenv.2016.06.043 (IF: 3.130)
20. Edwin, E.S., Vasantha-Srinivasan, P., Senthil-Nathan, S., Thanigaivel, A., Ponsankar, A., Pradeepa, V., Selin-Rani, S., Kalaivani, K., Hunter, W.B., Abdel-Megeed, A., Duraipandiyan, V., & **Al-Dhabi**, N.A. (2016). Anti-dengue efficacy of bioactive andrographolide from *Andrographis paniculata* (Lamiales: Acanthaceae) against the primary dengue vector *Aedes aegypti* (Diptera: Culicidae). *Acta Tropica*, 163, 167-178. DOI: 10.1016/j.actatropica.2016.07.00 (IF: 2.380)
21. Chun, J.-H., Kim, N.-H., Seo, M.-S., Jin, M., Park, S.U., Arasu, M.V., Kim, S.-J., & **Al-Dhabi**, N.A. (2016). Molecular characterization of glucosinolates and carotenoid biosynthetic genes in Chinese cabbage (*Brassica rapa* L. ssp. *pekinensis*). *Saudi Journal of Biological Sciences*, DOI: 10.1016/j.sjbs.2016.04.004 (IF: 1.781)

22. Budhraja, R.H., Shah, M.A., Suthar, M., Yadav, A., Shah, S.P., Kale, P., Asvadi, P., Arasu, M.V., **Al-Dhabi, N.A.**, Park, C.G., Kim, Y.-O., Kim, H.J., Agrawal, Y.K., & Krovdi, R.K. (2016). LC-MS/MS validation analysis of trastuzumab using dsil approach for evaluating pharmacokinetics. *Molecules*, 21, Article Number: 1464. DOI: 10.3390/molecules21111464 (**IF: 2.465**)
23. Ravichandran, G., Kumaresan, V., Bhatt, P., Arasu, M.V., **Al-Dhabi, N.A.**, & Arockiaraj, J. (2016). A Cumulative Strategy to Predict and Characterize Antimicrobial Peptides (AMPs) from Protein Database. *International Journal of Peptide Research and Therapeutics*, 1-10. DOI: 10.1007/s10989-016-9559-z (**IF: 0.905**)
24. Ravichandran, G., Kumaresan, V., Arasu, M.V., **Al-Dhabi, N.A.**, Ganesh, M.R., Mahesh, A., Dhayalan, A., Pasupuleti, M., & Arockiaraj, J. (2016). Pellino-1 derived cationic antimicrobial prawn peptide: Bactericidal activity, toxicity and mode of action. *Molecular Immunology*, 78, 171-182. DOI: 10.1016/j.molimm.2016.09.015 (**IF: 3.375**)
25. Madhaiyan, M., Poonguzhali, S., Saravanan, V.S., Duraipandiyan, V., **Al-Dhabi, N.A.**, Pragatheswari, D., Santhanakrishnan, P., Kim, S.J., Weon, H.Y., & Kwon, S.W. (2016). *Streptomyces pini* sp nov., an actinomycete isolated from phylloplane of pine (*Pinus sylvestris* L.) needle-like leaves. *International Journal of Systematic and Evolutionary Microbiology*, 66, 4204-4210. DOI: 10.1099/ijsem.0.001336 (**IF: 2.439**)
26. Ilavenil, S., **Al-Dhabi, N.A.**, Srigopalram, S., Kim, Y.O., Agastian, P., Baaru, R., Choi, K.C., Arasu, M.V., Park, C.G., & Park, K.H. (2016). Removal of SDS from biological protein digests for proteomic analysis by mass spectrometry. *Proteome Science*, 14, 11. DOI: 10.1186/s12953-016-0098-5 (**IF: 1.746**)
27. Hemalatha, K., Madhumitha, G., **Al-Dhabi, N.A.**, & Arasu, M.V. (2016). Importance of fluorine in 2,3-dihydroquinazolinone and its interaction study with lysozyme. *Journal of Photochemistry and Photobiology B-Biology*, 162, 176-188. DOI: 10.1016/j.jphotobiol.2016.06.036 (**IF: 3.035**)
28. Fowsiya, J., Madhumitha, G., **Al-Dhabi, N.A.**, & Arasu, M.V. (2016). Photocatalytic degradation of Congo red using *Carissa edulis* extract capped zinc oxide nanoparticles. *Journal of Photochemistry and Photobiology B-Biology*, 162, 395-401. DOI: 10.1016/j.jphotobiol.2016.07.011 (**IF: 3.035**)
29. Surendra, T.V., Roopan, S.M., Arasu, M.V., **Al-Dhabi, N.A.**, & Rayalu, G.M. (2016). RSM optimized *Moringa oleifera* peel extract for green synthesis of *M. oleifera* capped palladium nanoparticles with antibacterial and hemolytic property. *Journal of Photochemistry and Photobiology B-Biology*, 162, 550-557. DOI: 10.1016/j.jphotobiol.2016.07.032 (**IF: 3.035**)

30. Sridharan, M., Prasad, K.J.R., Madhumitha, G., **Al-Dhabi, N.A.**, & Arasu, M.V. (2016). Application of UV-Vis spectrophotometric process for the assessment of indoloacridines as free radical scavenger. *Journal of Photochemistry and Photobiology B-Biology*, 162, 641-645. DOI: 10.1016/j.jphotobiol.2016.07.026 (**IF: 3.035**)
31. Haritha, E., Roopan, S.M., Madhavi, G., Elango, G., **Al-Dhabi, N.A.**, & Arasu, M.V. (2016). Green chemical approach towards the synthesis of SnO₂ NPs in arguement with photocatalytic degradation of diazo dye and its kinetic studies. *Journal of Photochemistry and Photobiology B-Biology*, 162, 441-447. DOI: 10.1016/j.jphotobiol.2016.07.010 (**IF: 3.035**)
32. Sompalle, R., Roopan, S.M., **Al-Dhabi, N.A.**, Suthindhiran, K., Sarkar, G., & Arasu, M.V. (2016). 1,2,4-Triazolo-quinazoline-thiones: Non-conventional synthetic approach, study of solvatochromism and antioxidant assessment. *Journal of Photochemistry and Photobiology B-Biology*, 162, 232-239. DOI: 10.1016/j.jphotobiol.2016.06.051 (**IF: 3.035**)
33. Stalin, A., Irudayaraj, S.S., Kumar, D.R., Balakrishna, K., Ignacimuthu, S., **Al-Dhabi, N.A.**, & Duraipandiyan, V. (2016). Identifying potential PPAR gamma agonist/partial agonist from plant molecules to control type 2 diabetes using *in silico* and *in vivo* models. *Medicinal Chemistry Research*, 25, 1980-1992. DOI: 10.1007/s00044-016-1621-z (**IF: 1.436**)
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38. Antonisamy, P., Kannan, P., Aravinthan, A., Duraipandiyan, V., Arasu, M.V., Ignacimuthu, S., **Al-Dhabi, N.A.**, & Kim, J.H. (2014). Gastroprotective Activity of Violacein Isolated from *Chromobacterium violaceum* on Indomethacin-Induced Gastric Lesions in Rats: Investigation of Potential Mechanisms of Action. *Scientific World Journal*, Article Number: 616432. DOI: 10.1155/2014/616432
39. Arasu, M.V., Ilavenil, S., Kim, D.H., Park, H.S., Jane, M., Jung, M.-W., Lee, K.D., **Al-Dhabi, N.A.**, & Choi, K.C. (2014). Enhancing nutrient quality by combined ensiling of barley and crimson silage with *Lactobacillus plantarum* and *Chlorella*. *Journal of Pure and Applied Microbiology*, 8, 215-220.
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➤ **Year 2013**

▪ **ISI Journals**

1. Valan Arasu, M., Jung, M.-W., Ilavenil, S., Jane, M., Kim, D.-H., Lee, K.-D., Park, H.-S., Hur, T.-Y., Choi, G.-J., Lim, Y.-C., **Al-Dhabi, N.A.**, & Choi, K.-C. (2013). Isolation and characterization of antifungal compound from *Lactobacillus plantarum* KCC-10 from forage silage with potential beneficial properties. *Journal of Applied Microbiology*, 115, 1172-1185. DOI: 10.1111/jam.12319 (**IF: 2.156**)
2. Al-Dhabi, N.A. (2013). Heavy metal analysis in commercial Spirulina products for human consumption. *Saudi Journal of Biological Sciences*, 20, 383-388. DOI: 10.1016/j.sjbs.2013.04.006 (**IF: 1.781**)
3. Balachandran, C., Duraipandiyan, V., Balakrishna, K., Sundaram, R.L., Vijayakumar, A., Ignacimuthu, S., & **Al-Dhabi, N.A.** (2013). Synthesis and medicinal properties of plant-derived vilangin. *Environmental Chemistry Letters*, 11, 303-308. DOI: 10.1007/s10311-013-0408-4 (**IF: 2.918**)
4. Sunil, C., Duraipandiyan, V., Ignacimuthu, S., & **Al-Dhabi, N.A.** (2013). Antioxidant, free radical scavenging and liver protective effects of friedelin isolated from *Azima tetraacantha* Lam. Leaves. *Food Chemistry*, 139, 860-865. DOI: 10.1016/j.foodchem.2012.12.041 (**IF: 4.052**)
5. Arasu, M.V., **Al-Dhabi, N.A.**, Saritha, V., Duraipandiyan, V., Muthukumar, C., & Kim, S.-J. (2013). Antifeedant, larvicidal and growth inhibitory bioactivities of novel polyketide metabolite isolated from *Streptomyces* sp. AP-123 against *Helicoverpa armigera* and *Spodoptera litura*. *BMC Microbiology*, 13, Article Number: 105. DOI: 10.1186/1471-2180-13-105 (**IF: 2.581**)
6. Park, M.-H., Valan Arasu, M., Park, N.-Y., Choi, Y.-J., Lee, S.-W., **Al-Dhabi, N.A.**, Kim, J.B., & Kim, S.-J. (2013). Variation of glucoraphanin and glucobrassicin: Anticancer components in *Brassica* during processing. *Food Science and Technology*, 33, 624-631. DOI: 10.1590/S0101-20612013000400005 (**IF: 2.711**)

▪ **NON-ISI Journals**

7. **Al-Dhabi, N.A.**, Al-Sum, B.A., Al-Hammad, R.F. (2013). Molecular epidemiology of *Mycobacterium* species clinical isolates in Riyadh, Saudi Arabia. *Life Science Journal*, 10, 1551-1556.
8. Chun, J.-H., Jang, I.-H., **Al-Dhabi, N.A.**, Lee, D.-G., Arasu, M.V., Lee, D.-H., Cho, E.J., Chung, J.-M., Lee, S., & Kim, S.-J. (2013). Evaluation of chemical compositions of *Lycoris radiata* at different development stages and cultivation sites in South Korea. *Asian Journal of Chemistry*, 25, 9073-9078. DOI: 10.14233/ajchem.2013.14993

9. Kim, S.-J., Valan Arasu, M., **Al-Dhabi, N.A.**, Yoo, D.-S., Park, M.-H., Shin, Y.-S., & Lee, S.-W. (2013). Quantitative determination of triterpenoidal saponins in platycodi radix and its variation in different regions of Korean peninsula: A herbal plant used as traditional medicine. *Asian Journal of Chemistry*, 25, 7093-7097.
10. Kumar, R.S., Al-Hemaid, F.M.A., **Al-Dhabi, N.A.**, Muthukumar, C., Ali, M.A., & Thajuddin, N. (2013). Distribution of epiphytic cyanobacteria on lichens from Eastern Ghats of Tamil Nadu, India. *Journal of Pure and Applied Microbiology*, 7, 515-522.

➤ **Year 2012**

▪ **ISI Journals**

1. **Al-Dhabi, N.A.**, Balachandran, C., Raj, M.K., Duraipandiyar, V., Muthukumar, C., Ignacimuthu, S., Khan, I.A., & Rajput, V.S. (2012). Antimicrobial, antimycobacterial and antibiofilm properties of *Couroupita guianensis* Aubl. fruit extract. *BMC Complementary and Alternative Medicine*, 12, Article Number: 242. DOI: 10.1186/1472-6882-12-242 (**IF: 1.987**)
2. Balachandran, C., Duraipandiyar, V., **Al-Dhabi, N.A.**, Balakrishna, K., Kalia, N.P., Rajput, V.S., Khan, I.A., & Ignacimuthu, S. (2012). Antimicrobial and Antimycobacterial Activities of Methyl Caffeate Isolated from *Solanum torvum* Swartz. Fruit. *Indian Journal of Microbiology*, 52, 676-681. DOI: 10.1007/s12088-012-0313-8 (**IF: 1.143**)
3. Hariharan, H., **Al-Dhabi, N.A.**, Karuppiah, P., & Rajaram, S.K. (2012). Microbial Synthesis of Selenium Nanocomposite using *Saccharomyces cerevisiae* and its Antimicrobial Activity against pathogens causing Nosocomial Infection. *Chalcogenide Letters*, 9, 509-515. (**IF: 0.676**)
4. Mubarakali, D., Praveenkumar, R., Shenbagavalli, T., Mari Nivetha, T., Parveez Ahamed, A., **Al-Dhabi, N.A.**, & Thajuddin, N. (2012). New reports on antibacterial and anti-candidal activities of fatty acid methyl esters (FAME) obtained from *Scenedesmus bijugatus* var. *bicellularis* biomass. *RSC Advances*, 2, 11552-11556. DOI: 10.1039/c2ra21130k (**IF: 3.289**)

▪ **NON-ISI Journals**

5. Ponmurugan, K., Sankaranarayanan, A., & **Al-Dhabi, N.A.** (2012). Biological activities of plant growth promoting *Azotobacter* sp. isolated from vegetable crops rhizosphere soils. *Journal of Pure and Applied Microbiology*, 66, 1689-1698.

➤ **Review Articles**

1. Sivanandhan, S., Khusro, A., Paulraj, M.G., Ignacimuthu, S., & **Al-Dhabi, N.A.** (2017). Biocontrol Properties of Basidiomycetes: An Overview. *Journal of Fungi*, 3, 2-14. doi:10.3390/jof3010002

2. Bai, M., Liu, H., Xu, K., Oso, A.O., Wu, X., Liu, G., Tossou, M.C.B., **Al-Dhabi, N.A.**, Duraipandiyam, V., Xi, Q., & Yin, Y. (2017). A review of the immunomodulatory role of dietary tryptophan in livestock and poultry. *Amino Acids*, 49, 67-74. DOI: 10.1007/s00726-016-2351-8 (**IF: 3.196**)
3. Reegan, A.D., Ceasar, S.A., Paulraj, M.G., Ignacimuthu, S., & **Al-Dhabi, N.A.** (2017). Current status of genome editing in vector mosquitoes: A review. *Bioscience Trends*, 10, 424-432. doi: 10.5582/bst.2016.01180 (**IF: 1.533**)
4. **Al-Dhabi, N.A.**, Arasu, M.V., Park, C.H., & Park, S.U. (2015). An Up-to-Date Review of Rutin and its Biological and Pharmacological Activities. *EXCLI Journal*, 14, 59-63. DOI: 10.17179/excli2014-663 (**IF: 1.292**)
5. **Al-Dhabi, N.A.**, Arasu, M.V., Park, C.H., & Park, S.U. (2014). Recent studies on Rosmarinic acid and its Biological and Pharmacological activities. *EXCLI Journal*, 13, 1192-1195. (**IF: 1.292**)

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141. *Channa striata* mRNA for superoxide dismutase (sod gene)
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