

**ASSOC. PROF. DR. MAS JAFFRI MASARUDIN**

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Expertise: Nanobiotechnology, Nanoparticles, Drug Delivery, Biotechnology

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RESEARCH HIGHLIGHTS

1. Field of Expertise:

- Nanobiotechnology
- Drug delivery
- Material science

2. Current research work:

- Development of target-specific nanomaterials for enhanced delivery of biomolecules
- Microbial nanofactories as reservoirs for green synthesis of nanomaterials
- Smart-feed nanosystems for agriculture and aquaculture applications.

Selected Publications:

Masarudin, M. J., Cutts, S. M., Evison, B. J., Pietersz, G. A., Phillips, D. R., Pigram, P. J. (2015). Factors determining the stability, size distribution, and cellular accumulation of small, monodispersed chitosan nanoparticles as candidate vectors for anticancer therapy: application to the passive encapsulation of [14C]-doxorubicin. *Nanotechnology, Science and Applications* 8: 67-80

Yee Kuen, C., Masarudin, M. J., Otman, S. S., Fakurazi, S. (2017). Increased loading, efficacy and sustained release of silibinin, a poorly soluble drug using hydrophobically-modified chitosan nanoparticles for enhanced delivery of anticancer drug delivery systems. *Nanomaterials* 7: 39.

Jacob, P. J., Masarudin, M. J., Hussein, M. Z., Abdul Rahim, R. (2017). Facile aerobic construction of iron based ferromagnetic nanostructures by a novel microbial nanofactory isolated from freshwater wetlands. *Microbial Cell Factories* 16:175.

