



Prof. Dr. Okid Parama Astirin, MS

### Teaching Areas:

Animal Structure and Development  
Cell Biology  
Animal Cell and Tissue Culture

### Organizations:

Editor – SEMAR, Journal of Community Service, Sebelas Maret University



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### SELECTED PUBLICATIONS

2021. Synergistic cytotoxic effect of *Annona muricata* and *Caesalpinia sappan* nanoparticles via expression of BAD pro-apoptotic protein. Tropical Journal of Natural Product Research (manuscript in press)

2021. Single-Dose and Combined-Dose of Nanoparticles from Soursop Leaves (*Annona muricata* L.) and Sappan Wood (*Caesalpinia sappan* L.) Induced Apoptosis and Necrosis in HeLA Cells. Pharmacognosy Journal. Manuscript accepted.

2018. Synergistic Cytotoxicity Effect by Combination Treatment of Polyketide Derivatives from *Annona muricata* Linn Leaves and Doxorubicin as Potential Anticancer Material on Raji Cell Line. IOP Conference Series: Materials Science and Engineering 333(1),012067.

2017. Polyketide derivatives from *Annona muricata* Linn leaves as potential anticancer material by combination treatment with doxorubicin on Hela cell line. IOP Conference Series: Materials Science and Engineering 176(1),012002.

### RESEARCH PROJECTS

1. Peningkatan Efek Sitotoksik Cisplatin Oleh Kombinasi Nanopartikel Daun Sirsak Dan Kayu Secang Pada Sel Hela Melalui Kajian Apoptosis Dan Antiangiogenesis. Fundamental Research Grant, Uns. 2020-2021.
2. Kajian mekanisme apoptosis sediaan solid phase nanoherbal senyawa poliketida daun sirsak (*Annona muricata*) pada kanker serviks. Fundamental Research Grant, PUPT DIKTI. 2018-2019.
3. Kajian Aktivitas Antikanker Tertarget dari Formulasi Sediaan Solid Lipid Nanopartikel Isolat Daun Sirsak (*Annona muricata* Linn) Menggunakan Kitosan Rantai Pendek-Pektin pada Kanker Servix. PUPT. 2017.

### ACADEMIC CAREER

[2002-2006] : Dr. Biotechnology Brawijaya University, Indonesia.  
[1988-1991] : M.Sc. Biology Gadjah Mada University, Indonesia.  
[1980-1985] : S.Si Biology Gadjah Mada University, Indonesia.