

# **OLATUNJI, Oyenike Olufunmi (Ph.D)**

Department of Pharmacognosy and Pharmaceutical Botany, Faculty of Pharmaceutical Sciences,  
Prince of Songkla University, 90112, Hat Yai, Thailand.

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## **OBJECTIVE**

To contribute novelty to the field of biological, chemical, and pharmaceutical sciences with the overall goal of pushing the frontier of metabolomics, natural products and microbiology with significant contribution to knowledge and scientific research thus providing solution for humanity.

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## **PERSONAL DATA**

Full Name:	<b>OLATUNJI, Oyenike Olufunmi</b>
Country of Residence:	Thailand

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## **EDUCATIONAL INSTITUTION ATTENDED WITH DATES**

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| ➤ Prince of Songkla University, Thailand.     | <b>2014-2020</b> |
| ➤ University of Lagos, Lagos state, Nigeria.  | <b>2005-2007</b> |
| ➤ University of Ilorin, Kwara state, Nigeria. | <b>1999-2003</b> |
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## **ACADEMIC QUALIFICATIONS OBTAINED WITH INSTITUTIONS AND DATE**

<b>PhD in Pharmaceutical Sciences</b>	<b>2014-2020</b>
Prince of Songkla University, Thailand.	
<b>M.Sc in Pharmaceutical Chemistry</b>	<b>2005-2007</b>
University of Lagos, Lagos State, Nigeria.	
<b>B.Sc. in Biochemistry</b>	<b>1999-2003</b>
University of Ilorin, Kwara State, Nigeria.	

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## **COMPUTER SKILLS**

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| ➤ Proficiency in computer applications such as Microsoft (MS) applications (Word, Excel, PowerPoint). |
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## RESEARCH EXPERIENCE

➤ **Doctoral Research** **2014-2020**

**Assoc. Prof Dr. Anuchit Plubrukarn**

Marine Natural Product Laboratory, Faculty of Pharmaceutical Sciences, Prince of Songkla University, Thailand.

- Chemical profiling of secondary metabolites from plants and marine sponge using LC/MS, NMR and HPLC/UV.
- Isolation and structural elucidation of bioactive compounds from marine sponges and bacteria.
- LC/MS and NMR based metabolomics for chemical profiling using chemometrics.
- Chemical and microbial cohabitant profiling from the sponge *Penares nux*
- Isolation and identification of marine bacteria and fungi from marine invertebrates

➤ **Research Assistant** **2006-2007**

**Prof. Owolabi Mbang. A**

Faculty of Pharmacy, University of Lagos, Nigeria

- Evaluation of the antioxidant activity and lipid peroxidation of leaves of *Vernonia amygdalina*
- Effect of the aqueous and ethanol extract of the leaves of *Vernonia amygdalina* on oxidative stress enzymes in alloxan induced diabetic rabbits.

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## TEACHING EXPERIENCE

- **Teaching assistant:** practical courses in phytochemistry and analytical chemistry (B.Pharm in Pharmaceutical Sciences). **2006-2007**

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## FELLOWSHIPS AND HONORS

- Faculty of Pharmaceutical Sciences Thesis Supporting grant, **2017**
  - National Research University Project of Thailand, **2015-2017**
  - Graduate Student Fellowship, Prince of Songkla University, Scholarship Grant No: 950124202 (1/2). **2015-2019.**
  - Graduate School Thesis Financial Supporting grant, Prince of Songkla University, **2016.**
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## DISSERTATIONS SUBMITTED

- Chemical and microbial cohabitant profiling from the sponge *Penares nux*. A Thesis submitted in Fulfillment of the Requirements for the Degree of Doctor of Philosophy in Pharmaceutical Sciences (Ph.D.), Prince of Songkla University, Thailand **2019**.
  - Antioxidant content of *Vernonia amygdalina*. A Thesis submitted in Fulfillment of the Requirements for the Degree of Master of Science in Pharmaceutical Chemistry (M.Sc.). University of Lagos, Lagos state, Nigeria **2007**.
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## RESEARCH INTERESTS

- Metabolomics of natural products
  - Secondary metabolites profiling using metabolomics approach
  - High-throughput screening of extract from medicinal plants and marine invertebrates for the detection of bioactive molecules for molecular targets
  - Biosynthesis of plant secondary metabolites
  - Extraction, isolation, structure elucidation, and chemical transformation of natural products from medicinal plants, marine invertebrates, marine bacteria and fungi.
  - Isolation of bacteria and fungi using biochemical and molecular genetics approaches
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## RESEARCH SKILLS AND TECHNIQUES

Extensive hands-on experience in various laboratory techniques:

- Chemo analytical (e.g., HPLC, LC/MS, NMR, chromatography techniques).
- Microbiological (e.g., bacteria, fungi cultivation and isolation).
- Bio molecular laboratory methods (e.g., PCR, Agarose gel electrophoresis and 16S rDNA techniques).
- Expertise in multivariate analyses
- Expertise in preparing, running, and analyzing metabolomics samples on LC-MSMS and NMR.
- Expertise in natural products isolation from plants, marine organisms and marine microorganisms
- Excellent verbal and written communication skills in English.
- A good team player with strong analytical mind

- Analytical and research techniques which include novel analytic and great skill in technical reporting
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## SCHOLARLY PUBLICATIONS

- **Oyenike O. Olatunji**, Lothar Brecker, Anuchit Plubrukarn. Metabolomics approach towards the chemical distribution in the sponge *Penares cf. nux*. *Songklanakarin Journal of Science and Technology* 2021,43 (3), 696-702.
  - **Oyenike O. Olatunji**, Aekaphon Petchoubon, Chitti Thawai, Anuchit Plubrukan. Allocation of trisoxazole macrolides in the sponge *Penares nux* and the impact on epiphytic bacterial cohabitants. *Natural Product Research* 2018 doi.org/10.1080/14786419.2018.1493589.
  - Opeyemi J. Olatunji, Yan Feng, **Oyenike O. Olatunji**, Jian Tang, Yuan Wei, Zhen Ouyang, Zhaoliang Su. Polysaccharides purified from *Cordyceps cicadae* protects PC12 cells against glutamate-induced oxidative damage. *Carbohydrate Polymers* 2016,153 187-195.
  - Opeyemi J. Olatunji, Yan Feng, **Oyenike O. Olatunji**, Jian Tang, Zhen Ouyang, Zhaoliang Su. Cordycepin protects PC12 cells against 6-hydroxydopamine induced neurotoxicity via its antioxidant properties. *Biomedicine and Pharmacotherapy* 2016, 81, 7-14.
  - Opeyemi J. Olatunji, Yan Feng, **Oyenike O. Olatunji**, Jian Tang, Zhen Ouyang, Zhaoliang Su, Dujun Wang, Xiaofeng Yu. Neuroprotective effects of adenosine isolated from *Cordyceps cicadae* against oxidative and ER stress damages induced by glutamate in PC12 cells. *Environmental Toxicology and Pharmacology* 2016, 44, 53-61.
  - Owolabi MA, Jaja SI, Olatunji OJ, **Oyekanmi OO**, Adepoju S. Attenuation of oxidative damage in alloxan induced diabetic rabbits following administration of the extract of the leaves of *Vernonia amygdalina*. *Free Radicals and Antioxidants* 2011,1, 94–101.
  - Owolabi MA, Jaja SI, **Oyekanmi OO**, Olatunji, OJ. Evaluation of the Antioxidant Activity and Lipid Peroxidation of the Leaves of *Vernonia amygdalina*. *Journal of Complementary and Integrative Medicine* 2008, 5, 1, article 21.
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## ORAL AND POSTER PRESENTATIONS IN INTERNATIONAL SYMPOSIUMS

- **Oyenike O Olatunji** and Anuchit Plubrukarn. Tracing macrolide allocation in the sponge *Penares nux* by metabolomics approach. 3<sup>rd</sup> European Conference on Natural Products, Sept 2<sup>nd</sup> -5<sup>th</sup> 2018, Frankfurt Am Main - Germany (poster).
- **Oyenike O Olatunji** and Anuchit Plubrukarn. Localization of kabiramides in the sponge *Pachastrissa nux* and sponge surface attached bacteria. Annual meeting of the American Society of Pharmacognosy, 25<sup>th</sup> -29<sup>th</sup> July 2015, Copper Mountain CO, USA (poster).
- **Oyenike O Olatunji** and Anuchit Plubrukarn. Chemical and microbial cohabitant profiling of the sponge *Pachastrissa nux*. The International Bioscience Conference 2014, 29<sup>th</sup> -30<sup>th</sup> September 2014, Phuket, Thailand (oral).
- Owolabi Mbang, Jaja Smith, Opeyemi J Olatunji, **Oyekanmi Oyenike**. Antioxidant activities of the aqueous and ethanol extract of the leaves of *Vernonia amygdalina*. 48th annual meeting of the American society of Pharmacognosy, 14<sup>th</sup> -17<sup>th</sup> July 2007 (poster).
- Owolabi Mbang, Jaja Smith, Opeyemi J Olatunji, **Oyekanmi Oyenike**. The effect of the aqueous and ethanol extract of the leaves of *Vernonia amygdalina* on oxidative stress enzymes in alloxan induced diabetic rabbits. 50th anniversary of the Phytochemical Society of Europe, April 2007 (poster).

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## VOLUNTEERING:

- International Student Association-Prince of Songkla University (ISA-PSU) **2014-2019**

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## LANGUAGE

- Fluent in English
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