

SITI ZAITON BINTI MAT SO'AD



- KULLIYAH OF PHARMACY
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KELAYAKAN AKADEMIK

- Ph.D in Natural Product Chemistry
- Bachelor in Science (Chemistry)

TANGGUNGJAWAB MENGAJAR

HERBAL MEDICINE	2009/2010 2011/2012 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
ORGANIC CHEMISTRY	2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019
PHARMACEUTICAL ORGANIC CHEMISTRY	2019/2020
RESEARCH METHODOLOGY & BIOSTATISTICS	2009/2010 2010/2011 2011/2012
RESEARCH PROJECT 1	2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020
RESEARCH PROJECT 2	2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2018/2019 2019/2020 2020/2021
RESEARCH PROJECT-LITERATURE SEARCH	2009/2010 2010/2011 2011/2012 2012/2013 2013/2014 2014/2015 2015/2016 2016/2017 2017/2018 2019/2020
Research Project-Practical I	2009/2010
Research Project-Practical II	2009/2010 2012/2013

PROJEK PENYELIDIKAN

Completed

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|--------------------|---|
| 2016 - 2018 | ??Glucosidase Inhibitor and Aroma from the Flesh of Salak (Salacca zalacca) Fruit, their Metabolic Demarcation and Antidiabetic Potential |
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- 2016 - 2018** Antidiabetic and antioxidant evaluations of Averrhoa bilimbi L
- 2016 - 2018** Antidiabetic and antioxidant evaluations of Averrhoa bilimbi L
- 2015 - 2017** Pilot Scale Production of Natural Halal Skin Lightening Cream Containing Extract of Hydroxychavicol from Piper betle Leaves
- 2015 - -1** Alfa-amylase inhibitor from Orthosiphonstamineus & Metabolomics Profile of Indonesian and Japanese Rice Brans
- 2014 - 2016** Determination of in Vivo and in Vitro Antidiabetic Activity of Wogonin
- 2013 - 2018** Antidiabetic Characterization and Mechanism of Action of Wogonin in Rats
- 2013 - 2017** Tyrosinase Inhibitory and Antioxidant Activities of Entada Spiralis Ridl. (Akar Sintok) for the Development of Skin Whitening Products
- 2011 - 2017** In-Vitro of Antifungal Activity of Acalypha Indica, Linn Against Dermatophytes of Superficial Skin Disease
- 2009 - 2012** Screening for potential natural drugs in Malaysia medical plant Tetracera Indica Mer(mempelas paya)
- 2008 - 2011** Screening and Isolation of Bioactive Constituents from the Stem Bark Extracts of Entada Spirals (Akar Sintok) for the Development of Cosmeticeuticals Products
- 2008 - 2011** Screening of A Plant Tetracera Scandens Linn. For Its Chemical and Antidiabetic Activity

In Progress

- 2016 - Present** ??Glucosidase Inhibitor and Aroma from the Flesh of Salak (Salacca zalacca) Fruit, their Metabolic Demarcation and Antidiabetic Potential
- 2016 - Present** Antidiabetic and antioxidant evaluations of Averrhoa bilimbi L
- 2015 - Present** Alfa-amylase inhibitor from Orthosiphonstamineus & Metabolomics Profile of Indonesian and Japanese Rice Brans

PENERBITAN

Article

- 2020** [Assessment of Free radical scavenging and digestive enzyme inhibitory activities of extract, fractions and isolated compounds from Tetracera macrophylla leaves.](#) Journal of Herbal Medicine , xx (xx) pp.1-8
- 2020** [Modulation of metabolic alterations of obese diabetic rats upon treatment with Salacca zalacca fruits extract using H NMR-based metabolomics.](#) Food Research International , 137
- 2020** [Identification of tentative antioxidant constituents from stem and leaves of Leea indica species using spectroscopic analysis.](#) GADING Journal of Science and Technology , 3 (1) pp.129-136

- 2019** [The superiority of supercritical fluid extraction over steam distillation and solvent extraction methods for the extraction of aroma from Salacca zalacca \(Gaernt.\)Voss.](#) Oriental Journal of Chemistry , 35 (6) pp.1669-1677
- 2019** [Evaluation of the enzyme inhibitory and antioxidant activities of Entada spiralis stem bark and isolation of the active constituents.](#) Molecules , 24 (6) pp.1-15
- 2019** [\$\alpha\$ - Glucosidase inhibitory and antioxidant activities of entada spiralis ridl. \(Sintok\) stem bark extracts.](#) Pertanika - Journal of Tropical Agricultural Sciences , 42 (1) pp.139-153
- 2018** [Salacca zalacca: a short review of the palm botany, pharmacological uses and phytochemistry.](#) Asian Pacific Journal of Tropical Medicine , 11 (12) pp.645-652
- 2018** [Antioxidant and \$\alpha\$ -glucosidase inhibitory activities and gas chromatography-mass spectrometry profile of salak \(salacca zalacca\) fruit peel extracts.](#) Pharmacognosy Research , 10 (4 (Oct.-Dec.)) pp.385-390
- 2018** [Animal models and natural products to investigate in vivo and in vitro antidiabetic activity.](#) Biomedicine & Pharmacotherapy , 101 pp.833-841
- 2018** [Methylation and acetylation enhanced the antidiabetic activity of some selected flavonoids: In vitro, molecular modelling and structure activity relationship based study.](#) Biomolecules , 8 (4) pp.1-22
- 2018** [Correlation of FT-IR fingerprint and \$\alpha\$ -glucosidase inhibitory activity of Salak \(Salacca zalacca\) fruit extracts utilizing orthogonal partial least square.](#) Molecules , 23 (6) pp.1-10
- 2018** [Radical scavenging activity and phytochemical investigation of antioxidative compounds from stem and leaves of Leea indica species.](#) Gading Journal for Science and Technology , 1 (1) pp.52-59
- 2017** [Moxibustion \(artemisia plant at acupuncture point\) as alternative therapy in hypertension: a promising approach.](#) Journal of Pharmacy and Bioallied Sciences , 9 (4 (October-December)) pp.279-281
- 2017** [\$\alpha\$ -Glucosidase inhibitory activity of selected Malaysian plants.](#) Journal of Pharmacy And Bioallied Sciences , 9 (3 (June-September 2017)) pp.164-170
- 2017** [Flavonoids from Tetracera indica Merr. induce adipogenesis and exert glucose uptake activities in 3T3-L1 adipocyte cells.](#) BMC Complimentary and Alternative Medicine , 17 (1) pp.1-14
- 2017** [Antioxidant and antidiabetic effects of flavonoids: a structure-activity relationship based study.](#) BioMed Research International , 2017 pp.1-14
- 2016** [Investigation of an antidiabetic potential of a phenolic compound isolated from the leaves of mempelas payu.](#) International Medical Journal Malaysia , 15 (Supplement) pp.41-41
- 2016** [Comparative study of antioxidant and antimicrobial activity of root, stem and leaves of Leea indica species.](#) Malaysian Journal of Science , 35 (2) pp.241-250
- 2016** [Two isolated crystalline solids from the stem of Entada spiralis Ridl.\(akar Sintok\) = Pemencilan dua jenis pepejal kristal dari batang pokok Entada spiralis \(Akar Sintok\).](#) Malaysian Journal of Analytical Sciences (MJAS) , 20 (2) pp.238-246

- 2015** [Phenolic content screening and in vitro antioxidant evaluation for radical scavenging activity of methanolic cladodes extract of *Opuntia cochenillifera*\(L.\) Mill.](#) Malaysian Journal of Pharmacy , 2 (1 (Supplement)) pp.145-145
- 2015** [Bioassay guided isolation of an antidermatophytic active constituents from the stembarks of *Entada spiralis* Ridl \(Pengasingan komponen aktif antiderma secara berperingkat dari kulit pokok *Entada spiralis* Ridl.\)](#). Malaysian Journal of Analytical Sciences (MJAS) , 19 (4) pp.752-759
- 2015** [Investigation of in vivo antipyretic activity of *thottea dependens* leaves.](#) The International Medical Journal Malaysia , 14 (2) pp.11-16
- 2014** [In-vitro antidermatophytic activity of methanolic fraction from *entada spiralis* ridl. stem bark and its bioautographic profile.](#) Pertanika Journal of Science and Technology , 22 (1) pp.113-121
- 2013** [In vitro study of antimicrobial activity of *Acalypha indica* Linn. extract.](#) The Open Conference Proceedings Journal , 4 (2) pp.57-60
- 2013** [Breast Self-Examination \(BSE\) and attitude towards Breast Self-Examination \(BSE\) among women: a narrative review.](#) Journal of Pharmaceutical and BioSciences , 1 (2) pp.64-75
- 2012** [Batch, column and thermodynamic of Pb\(II\) adsorption on xanthated rubber \(*Hevea brasiliensis*\) leaf powder.](#) Journal of Applied Sciences , 12 (11) pp.1142-1147
- 2011** [Adsorption behavior of Pb\(II\) onto xanthated rubber \(*Hevea brasiliensis*\) leaf powder.](#) Polish Journal of Chemical Technology , 13 (4) pp.86-92
- 2011** [In vitro study of antifungal activity of *Entada spiralis* Ridl. crude extract against dermatophytes of superficial skin disease.](#) Revelation and Science , 01 (01) pp.57-61
- 2010** [Bioactive compounds from stem bark of *Entada Spiralis* RIDL.](#) Malaysian Journal of Pharmaceutical Sciences , 8 (Sup.1) pp.12
- 2010** [Anti-hyperglycemic activity of the leaves of *Tetracera scandens* Linn. Merr. \(Dilleniaceae\) in alloxan induced diabetic rats.](#) Journal of Ethnopharmacology , 131 (-) pp.140-145

Conference or Workshop Item

- 2019** [Production of Halal pheromone for perfumes from *Salacca zalacca* \(salak\) fruit.](#) In: **International Conference and Exposition on Inventions by institutions of Higher Learning 2019(PECIPTA'19)**
- 2019** [Production of Halal pheromone for perfumes from *Salacca zalacca* \(salak\) fruit.](#) In: **Minggu Penyelidikan dan Inovasi (MPI) 2019**
- 2019** [Effect of different drying treatments and different extraction methods on \$\alpha\$ -glucosidase inhibitory activities of *S. zalacca* fruit.](#) In: **International Conference on Pharmaceutical Research and Pharmacy Practice cum 14th IIUM-MPS Pharmacy Scientific Conference (ICPRP 2019)**
- 2018** [Identification and comparison of volatile aroma constituents of *Salacca zalacca* \(Gaertn.\) voss extracted by steam distillation, solvent extraction and supercritical fluid extraction methods.](#) In: **34th International Conference on Natural Products (ICNP 2018)**

- 2018 [Phytochemical constituents, \$\alpha\$ -glucosidase inhibitory activity and preliminary acute toxicity studies of the ethanol-water extracts of *Salacca zalacca* fruits in rats.](#) In: **1st International Symposium on Herbal Medicine, Pre-conference of 3rd AMDI International Biohealth Sciences Conference (IBSC) 2018**
- 2018 [Bioactive compounds and aroma from the flesh of salak\(*Salacca zalacca*\) fruit and antidiabetic potential.](#) In: **Minggu Penyelidikan dan Inovasi 2018**
- 2018 [Antioxidant activities of *Melastoma malabathricum* Linn. leaves.](#) In: **1st MyPSA National Pharmacy Research Competition (NPRC) 2018**
- 2017 [Digestive enzymes inhibitory and antioxidant activities of *Tetracera macrophylla* Vall. Leaves extract and fractions.](#) In: **National Seminar on Sustainable Environment and Healthcare**
- 2017 [In vitro \$\alpha\$ - glucosidase inhibitory and antioxidant activities of extract, fractions and isolated compounds from *Tetracera macrophylla* vall leaf.](#) In: **University Kebangsaan Malaysia-Universiti Riau, Indonesia-Universitas Islam Indonesia-Prince of Songkla University, Thailand Joint Seminar 2017 (UKM-UR-UII-PSU Joint Seminar 2017)**
- 2017 [Antioxidant effects of some selected flavonoids: a structure-activity relationship based study.](#) In: **2nd International Anatomical and Biomedical Scientific Conference 2017**
- 2017 [Ethnomedicinal survey of medicinal plants used to treat diabetes in Bangi, Selangor, Malaysia.](#) In: **2nd International Anatomical and Biomedical Scientific Conference 2017**
- 2017 [Precious cosmeticeutical products from *entada spiralis* for superficial skin problem.](#) In: **Invention, Innovation & Design Exposition (IIDEX) 2017**
- 2017 [Potential insulin-like and insulin-sensitizing activity on 3T3-L1 adipocytes by terpenoids isolated from *Tetracera indica*.](#) In: **International Conference on Natural Products 2017 (ICNP 2017)**
- 2017 [Enzyme inhibitory and antioxidant investigations of *Tetracera macrophylla* Vall. and *Entada spiralis* Ridl. and isolation of active principles.](#) In: **Kulliyah of Pharmacy Research Symposium 2017**
- 2017 [Antioxidants and \$\alpha\$ -glucosidase inhibitory activities from peels of Salak \(*Salacca zalacca*\) fruit.](#) In: **ASIA International Multidisciplinary Conference 2017 : Life Science and Others**
- 2017 [FT-IR- based metabolomics approach to characterize the \$\alpha\$ -glucosidase inhibitory activity of Salak fruit.](#) In: **International Malaysian-French Scientific Conference (IMFSC 2017)**
- 2016 [Phytochemical profile and free radical scavenging activity of *Entada spiralis* stem bark.](#) In: **2nd International Conference on Industrial Pharmacy (ICIP 2016):Generics and Biosimilars**
- 2016 [Radical scavenging activity and phytochemical investigation of antioxidative compounds from stem and leaves of *Leea indica* species.](#) In: **Regional Conference On Science, Technology & Social Sciences 2016 (RCSTSS)**

- 2016 [Flavonoids from *Tetracera indica* Merr. inhibit adipocyte differentiation and exert glucose uptake activities in 3T3-L1 adipocyte cells.](#) In: **Regional Conference On Science, Technology & Social Sciences 2016 (RCSTSS)**
- 2016 [Assessment of phytoconstituents, antioxidants, and alpha glucosidase inhibitory activities of *Entada spiralis* ridl. stem bark extracts.](#) In: **Proceedings Of The 14th Seminar On Medicinal & Aromatic Plants**
- 2016 [Investigation of an antidiabetic potential of a phenolic compound isolated from the leaves of *mempelas paya*.](#) In: **Medical Research Symposium & Pacific Partnership in conjunction with Kuantan Research Day 2016**
- 2016 [Isolation of antidiabetic compounds from *tetracera Indica*.](#) In: **International Conference on Natural Products 2016 (ICNP 2016)**
- 2016 [Antioxidant activity study and tyrosinase inhibitory study of *Entada spiralis* Ridl..](#) In: **2nd International Conference On Industrial Pharmacy 2016 (ICIP 2016)**
- 2016 [Antioxidant activities of flavonoids isolated from the leaves of *Tetracera indica* Merr..](#) In: **2nd International Conference on Industrial Pharmacy (ICIP 2016):Generics and Biosimilars**
- 2016 [Antioxidant activity study and tyrosinase inhibitory screening of *Entada spiralis* Ridl. leaves.](#) In: **International Conference On Natural Products (ICNP 2016)**
- 2016 [A preliminary study on antioxidant activity of *entada spiralis* Ridl. leaves.](#) In: **4th International Conference on Pharmaceuticals, Nutraceuticals and Cosmetic Science (IPNaCs)**
- 2016 [Assesment of phytoconstituents, antioxidants and alpha glocosidase inhibitory activities of *Entada spiralis* Ridl. stem bark extracts.](#) In: **14th Seminar on Medicinal & Aromatic Plants 2016**
- 2016 [Determination and evaluation of antioxidant constituents of *Entada spiralis* ridl. leaves.](#) In: **14th Seminar on Medicinal & Aromatic Plants**
- 2016 [In vitro evaluations of anti-hyperglycemic ant antioxidant activities of *Entada spiralis* Ridl. stem bark extracts.](#) In: **3rd Pan-Asian Biomedical Science Conference 2016 Kuala Lumpur**
- 2015 [Phytochemical and in vitro antidiabetic investigations of stems of *Tetracera Indica* Merr., a Malaysian traditional medicinal plant.](#) In: **8th Asian Network of Research on Antidiabetic Plants (ANRAP) International Seminar 2015**
- 2015 [Skin sensitization study of crude methanol extract of *Acalypha indica* Linn. leaves onto guinea pigs.](#) In: **International Conference on Natural Products 2015 (ICNP 2015)**
- 2015 [Preliminary phytochemical investigation of active components from the leaves of *Entada spiralis* Ridl. as potent natural drugs for skin diseases and antioxidant agent.](#) In: **International Conference on Natural Products 2015 (ICNP 2015)**
- 2014 [Bioassay guided isolation of an antidermatophytic active constituents from the stembarks of *entada spiralis* ridl.](#) In: **Regional Conference On Science, Technology & Social Sciences**

- 2014 [Isolation of a promising anti-diabetic agent \(5,7-dihydroxy-8-methoxyflavone\) from the leaves of Malaysian herb "Tetracera indica" and its in vivo toxicological studies.](#) In: **International Research, Invention and Innovation Exhibition 2014 (IRIIE2014)**
- 2014 [Isolation of a promising antidiabetic compound from the leaves of tetracera indica merr., and in vivo toxicological studies in diabetes induced experimental animals.](#) In: **1st International Conference on Industrial Pharmacy (ICIP) 2014**
- 2013 [In vitro anti fungal activity of crude extract of Entada Spiralis against five fungal pathogens of damping off disease.](#) In: **7th International Conference on Plant Protection in the Tropics**
- 2013 [An antifungal body soap from stem bark of Entada spiralis Ridl.\(Akar Sintok\) as a new cosmeticeutical product.](#) In: **International Invention, Innovation And Research Design Platform 2013 (I-P 2013)**
- 2013 [Antimicrobial activity of Acalypha indica Linn. extract.](#) In: **International Conference on Natural Products 2013**
- 2012 [Effect of hydrogen peroxide treatment of rubber leaf powder in removing Pb\(II\) ions.](#) In: **International Conference on Science Technology and Social Sciences**
- 2012 [Bioactive terpenoids from the stem bark of Entada spiralis Ridl.\(Sintok\).](#) In: **International Conference on Science, Technology & Social Science (ICSTSS2012)**
- 2012 [Characterization and Pb\(II\) adsorption capacity of rubber leaf powder treated by hydrogen peroxide.](#) In: **3rd International Conference on Environmental Research and Technology (ICERT 2012)**
- 2012 [Cosmeticeutical products from antimicrobial active extracts of the stem barks of Entada spiralis Ridl.\(Akar Sintok\).](#) In: **International Islamic University Malaysia Research, Invention and Innovation 2012**
- 2011 [Antidiabetic efficacy of polar extracts of the leaves of tetracera indica merr. \(dilleniaceae\) in alloxanized rats .](#) In: **10th Continuing Professional Development (CPD) Series: Diabetic Asia 2011 Conference and Workshop**
- 2011 [Isolation of 5,7-dihydroxy-8-methoxyflavone as an anti-hyperglycemic agent from the leaves of Tetracera indica MERR. \(Mempelas\).](#) In: **International Conference on Natural Products (ICNP 2011): Metabolomics - A New Frontier in Natural Products Science**
- 2011 [Isolation and structure elucidation of two new novel flavonoids and antidiabetic activity of the leaves of Tetracera scandens Linn. in vivo..](#) In: **IIUM Research, Invention and Innovation Exhibition (IRIIE) 2011**
- 2011 [Antidiabetic efficacy of polar extracts of the leaves of Tetracera indica Merr. \(Dilleniaceae\) in alloxanized rats. .](#) In: **10th Continuing Professional Development (CPD) Series: Diabetic Asia 2011 Conference and Workshop,**
- 2011 [Structural elucidation of a major active compounds from the stem barks of Entada spiralis Ridl.](#) In: **International Conference on Natural Products ICNP 2011**

- 2011 [Isolation of the compounds from antimicrobial active fraction from the stem barks of *Entada spiralis* Ridl.](#) In: **IUM Research, Invention and Innovation Exhibition (IRIIE) 2011**
- 2011 [Adsorption of lead onto Xanthated modified Rubber \(*Hevea Brasiliensis*\) powder.](#) In: **ICCEIB -SOMChE 2011**
- 2011 [Screening on cytotoxicity, antioxidant and antimicrobial of stem bark from *Malaysian vatica odorata* and *vatica bella* \(dipterocarpaceae\).](#) In: **59th International Congress and Annual Meeting of the Society for Medicinal Plant and Natural Product Research**
- 2010 [In vitro study of antifungal activity of *Entada spiralis* crude extract against dermatophyte of superficial skin disease.](#) In: **3rd International Conference on Advancement in Science and Technology (iCAST) 2010**
- 2010 [Bioautographic profile of antimicrobial active extract from the stem barks of *Entada spiralis* Ridl.](#) In: **International Conference on Advancement in Science and Technology (iCAST2010): The Science of Traditional Practices in Health and Disease**
- 2009 [Preliminary phytochemical investigation and antimicrobial property of the stem bark of *Entada spiralis* Ridl.](#) In: **Malaysian Natural Product International Seminar (MNPIS) 2009 Silver Jubilee**
- 2008 [Major active compound from chloroform crude extract from the leaves of *Thottea corymbosa*.](#) In: **International Conference on Advancement in Science and Technology (iCAST 2008)**

Book

- 2017 [Sintok \(*Entada spiralis* ridl.\): natural sources of antioxidant compounds.](#) IUM Press, International Islamic University Malaysia . ISBN 978-967-418-699-9

Book Section

- 2018 [Anticancer potential of flavonoids: polyphenols that may cure.](#) In: **Current issues in pharmacy** IUM Press . ISBN 978-967-418-454-4 , pp.21-62
- 2018 [Annona muricata: A potent anticancer plant.](#) In: **Current issues in Pharmacy** IUM Press . ISBN 987-967-418-454-4 , pp.248-262
- 2018 [A concise review of Malaysian medicinal plants with antidiabetic activity.](#) In: **Current issues in pharmacy** IUM Press, International Islamic University Malaysia . ISBN 978-967-418-454-4 , pp.200-222
- 2011 [Phytochemical screening expedition 2009 : drug discovery from nature..](#) In: **Current Issues in Pharmacy** IUM Press . ISBN 9789674180195 , pp.274-284