

Dr. B.S. Lakshmi
Director and Head
Department of Biotechnology
Anna University
Chennai

List of Publications 2015-2020

2020

- VM Vidhya, BS Lakshmi, K Ponnuraj., In silico prediction of a new lead compound targeting enolase of trypanosomatids through structure-based virtual screening and molecular dynamic studies. Journal of Molecular Modelling 26 (2), 23, 2020.

2019

- B Sarath Kumar, B S Lakshmi., In silico investigations on the binding efficacy and allosteric mechanism of six different natural product compounds towards PTP1B inhibition through docking and molecular dynamics simulations. Journal of molecular modeling 25 (9), 272. 2019.
- K Shilpa, B S Lakshmi., Influence of exogenous cinnamic acid on the production of chlorogenic acid in Cichorium intybus L cell culture. South African Journal of Botany 125, 527-532. 2019.
- Y Geetharani, B S Lakshmi., Structural insight into the antagonistic action of diarylheptanoid on human estrogen receptor Alpha. Journal of Biomolecular Structure and Dynamics 37 (5), 1189-1203. 2019.

2018

- Padmanaban Muthukumaran, Gopal Thiagarajan, Rajendran Arun Babu, Baddireddi Subhadra Lakshmi., Raffinose from Costus speciosus attenuates lipid synthesis through modulation of PPARs/SREBP1c and improves insulin sensitivity through PI3K/AKT. Chemico-Biological Interactions 284 (25), 80-89. 2018.
- Geetha Rani Yuvaraj and Baddireddi Subhadra Lakshmi., Structural insight into the antagonistic action of diarylheptanoid on human estrogen receptor Alpha., Journal of

2017

- S Sudhagar, S Sathya, R Anuradha, G Gokulapriya, Y Geetharani, B S Lakshmi., Inhibition of epidermal growth factor receptor by ferulic acid and 4-vinylguaiacol in human breast cancer cells, *Biotechnology letters*, 1-6, 2017. doi: 10.1007/s10529-017-2475-2.
- Koteppa Pari, S Sudhagar, B S Lakshmi., Presence of biogenic and intrinsically derived organic solvents in Ginger rhizome oil: A specific reference to supercritical fluid extract of ginger, *Journal of Medicinal Plants Studies* 5 (3), 182-184, 2017.

2016

- S Sudhagar, S Sathya, G Gokulapriya, B S Lakshmi., AKT-p53 axis protect cancer cells from autophagic cell death during nutrition deprivation, *Biochemical and Biophysical Research Communications* 471 (4), 396-401, 2016.
- G Thiagarajan, P Muthukumaran, B Sarath Kumar, VS Muthusamy, B S Lakshmi., Selective Inhibition of PTP1B by Vitalboside A from *Syzygium cumini* Enhances Insulin Sensitivity and Attenuates Lipid Accumulation Via Partial Agonism to PPAR?: In Vitro and In Silico Investigation, *Chemical Biology and Drug Design*, DOI: 10.1111/cbdd.12757, 2016.
- N Poornima Devi, K N Sangeetha, B S Lakshmi., Role of STAT3 phosphorylation in ethanol mediated proliferation of breast cancer cells, *Journal Breast Cancer*, 19(2), 2016.

2015

- S Sathya, S Sudhagar, B S Lakshmi., Estrogen suppresses breast cancer proliferation through GPER / p38 MAPK axis during hypoxia, *Molecular and cellular endocrinology*, 417, 200-210, 2015.
- K N Sangeetha, B S Lakshmi, S Niranjali Devaraj, Dexamethasone promotes hypertrophy of H9C2 cardiomyocytes through calcineurin B pathway, independent of NFAT activation, *Molecular and cellular biochemistry*, 1-12, 2015.

- S Anand, R B Raja, B S Lakshmi., Enhancement of glucose uptake by *Ficus hispida* methanolic extract through phosphatidylinositol 3 kinase and inhibiting aldose reductase - An in vitro analysis, *European Journal of Integrative Medicine* 7 (2), 164-171, 2015.
- R Kamaraj Kennedy, P Ravindra Naik, V Veena, B S Lakshmi, Pragna Lakshmi, R Krishna, N Sakthivel., E5-Methyl phenazine-1-carboxylic acid: A novel bioactive metabolite by a rhizosphere soil bacterium that exhibits potent antimicrobial and anticancer activities, *Chemico-biological interactions* 231, 71-82, 2015.
- G M Shanthini, Catherine Ann Martin, N Sakthivel, Sarath Chandra Veerla, K Elayaraja, B S Lakshmi, Physical and biological properties of the ion beam irradiated PMMA-based composite films, *Applied Surface Science* 329, 116-126, 2015.