



Dr. G. Manivel M.Sc., Ph.D.,
Bioinformaticion

Contacts:

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Personal Details:

Father : Gunasekaran. R,
Mother : Tamilarase.G,
DOB : 07/07/1989
Religion : Hindu
State : Tamilnadu
Nationality : Indian

Qualification:

- ✚ Ph.D Bioinformatics -2013-17
- ✚ M.Sc Bioinformatics (Int) -2007-12
- ✚ HSC State Board -2005-07
- ✚ SSLC State Board - Mar,2005

Awards & Prizes:

- ✚ **"Young Scientist award 2023"** of bioinformatics at international conference on AGRI INNOVA 2023 Aug,12 from The Indian agriculture college radhapuram india.
- ✚ A **chairperson** of Two-day National level workshop on **"A designing Platform for the transformation of biomolecules to drug"** organized by Dept of Microbiology, K.S.R College of Arts and Science on 30th- 31st Jan-2020.
- ✚ **IInd price on best Orel presentation** from Bharathiar University, National conference on Translational research in medicinal and aromatic plants for cancer therapeutics-current strategies and future prospects 14th March, 2023.

Knowledge & Skills:

- ✚ Handling on LINUX OS & Computational Biology,
- ✚ NGS data Analysis,
- ✚ Computer aided drug discovery(CADD),
- ✚ Pharmacokinatics (ADMET),
- ✚ LINUX, C, C++, Pearl, Python, R & handling on online bioinformatics tools and Software's.
- ✚ High-Throughput Virtual screening & Molecular Docking.
- ✚ Handling of molecular biology on plant and microorganisms like DNA and RNA isolation, 2D gel-documentation, PCR amplification and Real Time-PCR analysis, Molecular evolutionary analysis SDS-PAGE, 2D-gel electrophoresis, protein isolation MOLDI TOF, Molecular modeling and Protein structure Prediction Knowledge of Soxalate Extraction, TLC, Colum chromatography, FTIR and GC-MS.

Working Experience:

Teaching : **5yr- 2Months** (Jul, 2019 to till now) f
Experience .

Research : 5yr Experience with *In-vitro & in-silico*
Experience Techniques.

M.Sc Project: **"Homology modeling and docking studies of anticancer activity of small peptide antibiotics"** from National Institute of Mental Health and Nero Science (NIMHNS) Bangalore.

Ph.D Project : **"Studies on molecular identification of marine yeast and its anticancer activity by In-silico docking analysis"**

Research : **Dr. P. Senthilraja M.Sc., M.Phil., Ph.D.**
Supervisor Assistant professor in Bioinformatics,
Department of Zoology,
Annamalai University,
Tamilnadu india.

Publications:

NCBI Genebank : **The 35 nucleotide sequences are published.**

Publication KX965616.1, KX965615.1, KX965614.1, KJ934702.1, KJ934701.1, KJ934700.1, KJ934699.1, KJ934698.1, KJ934697.1, KJ934696.1, KJ934695.1, KJ934694.1, KJ934693.1, KJ934692.1, KJ934691.1, KJ934690.1, KJ934689.1, KJ934688.1, KJ934687.1, KJ934686.1, KJ934685.1, KJ934684.1, KJ934683.1, KJ934682.1, KJ934681.1, KJ934680.1, OR016446.1, OQ941778.1, OQ946985.1, Q946984.1, OQ880550.1, OQ880549.1, OQ880548.1, OQ880547.1.

Whole genome

Sequencing : _NZ_JAUUBX000000000.1

BioProject : [PRJNA224116](https://ncbi.nlm.nih.gov/bioproject/PRJNA224116)

BioSample : [SAMN36784344](https://ncbi.nlm.nih.gov/biosample/SAMN36784344)

Assembly : [GCF_030662215.1](https://ncbi.nlm.nih.gov/assembly/GCF_030662215.1)

Project Guiding:

Under the BDU, Dept. of Bioinformatics
M.Sc., Bioinformatics (Int) students.

- PG level Vth Yr M.Sc. Bioinfo (int) - 6
- UG level III^{ed} Yr M.Sc. Bioinfo (int) - 4

International/ national participations

Training program participation	: 07
Conference/ Seminars participation	: 15
Workshop participation	: 05
Faculty development	
Program NIT-Warangal	: 02

Academic activity:

I successfully have handled & incharge on odd and even semesters academic Time Table, co-ordinator of the Cultural Program, a mentor mentee program & Bioinformatics computer lab incharge

REFERENCE

- 1. Dr. P.SENTHILRAJA, Ph.D.,**
Assistant Professor in Bioinformatics,
Department of Zoology
Annamalai University,
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- 2. Dr. Velu RAJESH KANNAN, Ph.D.,**
Professor of Microbiology & HOD
Department of microbiology,
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9698770070.

List of Publications:

1. **G Manivel**, DML Raj, R Prathiviraj, P Senthilraja, Distribution of phylogenetic proximity upon species-rich marine Ascomycetes with reference to Pichavaram mangrove soil sediment of southern India. Gene Reports, 21, 100878.
2. TS Shalini, G Manivel, P Ragothaman, RK Velu, P Senthilraja. Secondary metabolite profiling using HR-LCMS, antioxidant and anticancer activity of *Bacillus cereus* PSMS6 methanolic extract: In silico and in vitro study Biotechnology Reports 42, e00842.
3. **G.Manivel**, C. Vasanth Pandiyana, K. Balajib, Sujatha Saravanana, Gunasekaran Shylajaa, Gokul Ragavendra Srinivasanc, P.R. Kiresee Saghanad. Effect of vermicompost application on soil and growth of the plant *S. indicum* L.2020.
4. **G. Manivel**, P. Senthilraja, S. Manikandaprabhu, G. Durga, M. Prakash and G. Sakthivel. 6-oxa-3-thiaoctanoic acid has potential inhibitors against thyroid cancer- in-silico analysis. IJPSR, 2016; 7(12): 4963-70.
5. Gunasekaran **Manivel** and Towseef Hassan Govindasami Chandirasegaran, Chakkaravarthy Elanchezhian, Kavisa Ghosh. Ec diabetes and metabolic research diabetes mellitus induced oxidative stress, inflammation and apoptosis: a concise review.2019, 3(1), 10-17.
6. K Kalidasan, L Dufossé, **G Manivel**, P Senthilraja, K Kathiresan. Antioxidant and Anti Colorectal Cancer Properties in Methanolic Extract of Mangrove-Derived Schizochytrium sp. J. of Marine Science and Engineering 10(3), 431.
7. Dhurga K, Gunasekaran G, Senthilraja P, **Manivel G**, Stalin A. Molecular Modeling and Docking Analysis of Pseudomonas Bacterial Proteins with Eugenol and its derivatives. RJLBPCS; 2016; 2(1), 1-11
8. Dhurga Kanahaiya, Senthilraja Poomalai, **Manivel** Gunasekaran, Anand Krishnamurthy and Stalin Anthony in silico analysis on phytoestrogens from dried fruits as beta-catenin inhibitors in liver cancer. RJLBPCS; 2017; 2(5), 52-63.
9. Manikandaprabhu Sekar, Senthilraja Poomalai, **Manivel Gunasekaran**, Prakash Mani, Anand Krishnamurthy. Bioactive compounds from marine yeast inhibit lung cancer. Journal of Applied Pharmaceutical Science 5 (2), 007-015, 2015.
10. Senthilraja P, Kayitare John, **Manivel G**, Manikandaprabhu S, Anand Krishnamurth, Anand Krishnamurthy. Potential compound derived from *catharanthus roseus* to inhibit non small cell lung cancer (NSCLC). Int. J. Res. Ayurveda pharm. 6(2), 2015.
11. Ramkumar S; **Manivel G**; Senthilraja P.2017. Anticancer activity of natural organic compounds against breast cancer protein (BRCA-2) – An *in silico*. AARJMD, V- 4:12; 87-94, Asian Academic Research Journal

I hereby declare that all the statements made in this Bio data are true, complete and correct to the best of my knowledge and belief.

Yours Faithfully

Place:

Date:

(G. MANIVEL)