



Bharathiar University

State University | "A++" Grade by NAAC | 26th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.

<p>Dr SUBRAMANIAM SELVAKUMAR Assistant Professor Department of Bio-Chemistry Bharathiar University Tamil Nadu E-mail: selvakumar@buc.edu.in Phone: 8220119898 Office Number: 0422-2428561</p>	
Research Area <ul style="list-style-type: none">• Cell Signaling• Cancer Biology• Stress Physiology• Nutrition	Courses Teaching <ul style="list-style-type: none">• Cell and Molecular Biology• Enzymology• Molecular Physiology• Recombinant DNA Technology• Biology of Cancer and Stem cell• Advanced Paper in Biochemistry• DNA Techniques & Clinical Applications• Animal Cell Culture Techniques
Research Experience:	Teaching Experience:
Research Credentials (as on March 2024 – Source: Google scholar) H-index: 16 Citations: 1061	i10-index: 22
Publications International Journals: 30 National Journals: 1	
Career	
Other Institutes 1. Designation : Post Doctoral Fellow Institution Name : INSERM U866, University of Bourgogne, Dijon, FRANCE Period : November 2011 - February 2014 2. Designation : Post Doctoral Fellow Institution Name : INSERM U517/866, University of Bourgogne, Dijon, FRANCE Period : July 2006 - June 2007 3. Designation : Post Doctoral Fellow Institution Name : INSERM U866, University of Bourgogne, Dijon, FRANCE Period : August 2008 - August 2010	
At Bharathiar University 1. Designation : Assistant Professor Period : August 2015 - August 2024	
Education Ph. D. Subject : Biochemistry Institution : Bharathidasan University Affiliated University : Bharathidasan University Year of Award : February 2006	



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Dr SUBRAMANIAM SELVAKUMAR , Assistant Professor , Department of Bio-Chemistry

M. Sc.

Subject : Biochemistry

Institution : PGP College of Arts & Science, Namakkal

Affiliated University : University of Madras

Year of Award : May 1999

B. Sc.

Subject : Biochemistry

Institution : Shri Nehru Maha Vidyalaya College of Arts & Sciences, Malumichampatti

Affiliated University : Bharathiar University

Year of Award : May 1997

Projects	Research Guidance Completed M.Phil. - 1
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Publications

International Journals - 30

30. Sensing features, on-site detection and bio-imaging application of a tripodal tris (hydroxycoumarin) based probe towards Cu²⁺/His

Spectrochimica Acta Part A: Molecular and Biomolecular Spectroscopy Volume324Pages124972 (January 2025)
Rajendran Kishore Kumar, Ottoor Anitha, Kuppusamy Suganthirani, Karthi Muthuswamy, Subramaniam Selvakumar, Balasubramanian Murugesapandian

29. Unraveling the role of medicinal plants and Gut microbiota in colon cancer: Towards microbiota-based strategies for prevention and treatment

Health Sciences ReviewPages100115 (September 2023)
Arumugam Vignesh, Thomas Cheeran Amal, Subramaniam Selvakumar, Krishnan Vasanth

28. Conservation linkages of endangered medicinal plant and exploration of phytochemicals, pharmaceutical screening and in silico validation against diabetics using in vivo wild ...

3 BiotechVolume13Issue7Pages237 (July 2023)
Arumugam Vignesh, Thomas Cheeran Amal, Sivakumar Janani Sree, Subramaniam Selvakumar, Krishnan Vasanth

27. Coumarin-Picolinohydrazone derived Schiff base as fluorescent sensor (OFF-ON) for detection of Al³⁺ ion: Synthesis, Spectral and theoretical studies

Journal of Molecular StructureVolume1273Pages134329 (February 2023)
D Ravichandran, M Ranjani, G Prabu Sankar, R Shankar, M Karthi, S Selvakumar, R Prabhakaran

26. Genetic variation in sweet taste receptors and a mechanistic perspective on sweet and fat taste sensation in the context of obesity

Obesity ReviewsVolume23Issue12Pagese13512 (December 2022)
Vinithra Ponnusamy, Gowtham Subramanian, Karthi Muthuswamy, Deepankumar Shanmugamprema, Vasanth Krishnan, Thirunavukkarasu Velusamy, Selvakumar Subramaniam

25. Comparative LC-MS analysis of bioactive compounds, antioxidants and antibacterial activity from leaf and callus extracts of Saraca asoca

Phytomedicine PlusVolume2Issue1Pages100167 (February 2022)
Arumugam Vignesh, Subramaniam Selvakumar, Krishnan Vasanth

24. A review on ethnomedicinal and phytopharmacological potential of traditionally wild and endemic plant Berberis tinctoria Lesch.

The Thai Journal of Pharmaceutical SciencesVolume46Issue2Pages137-148 (January 2022)
Arumugam Vignesh, Ramamoorthy Sivalingam, Subramaniam Selvakumar, Krishnan Vasanth



23. *Striga angustifolia* mediated synthesis of silver nanoparticles: Anti-microbial, antioxidant and anti-proliferative activity in apoptotic p53 signalling pathway

Journal of Drug Delivery Science and Technology Volume 67 Pages 102945 (January 2022)

Kannan Raja, Venkatachalam Balamurugan, Subramaniam Selvakumar, Krishnan Vasanth

22. Anticancer Activity of *Leonurus sibiricus* L.: Possible Involvement of Intrinsic Apoptotic Pathway

Nutrition and Cancer Volume 74 Issue 1 Pages 225-236 (January 2022)

Vasanth Krishnan, Selvakumar Subramaniam, Chang Chia-Chuan, Balamurugan Venkatachalam, Amal Thomas Cheeran, Huang Chi-Ying F

21. Phytochemical screening, antioxidant, anti-diabetic and cytotoxic activity of leaves of *Pandanus canarus Warb*

Materials Today: Proceedings Volume 48 Pages 322-329 (January 2022)

Venkatachalam Balamurugan, Kannan Raja, Subramaniam Selvakumar, Krishnan Vasanth

20. Nutritional assessment, antioxidant, anti-inflammatory and antidiabetic potential of traditionally used wild plant, *Berberis tinctoria* Lesch.

Trends in Phytochemical Research Volume 5 Issue 2 Pages 71-92 (July 2021)

Arumugam Vignesh, Kumarasamy Pradeepa Veerakumari, Subramaniam Selvakumar, Rajan Rakkiyappan, Krishnan Vasanth

19. Anti?Obesity Effect of *T. Chebula* Fruit Extract on High Fat Diet Induced Obese Mice: A Possible Alternative Therapy

Molecular Nutrition & Food Research Volume 65 Issue 10 Pages 2001224 (May 2021)

Gowtham Subramanian, Deepankumar Shanmugamprema, Ramya Subramani, Karthi Muthuswamy, Vinithra Ponnusamy, Kalpana Tankay, Thirunavukkarasu Velusamy, Vasanth Krishnan, Selvakumar Subramaniam

18. Single nucleotide polymorphism in CD36: Correlation to peptide YY levels in obese and non-obese adults

Clinical Nutrition Volume 40 Issue 5 Pages 2707-2715 (May 2021)

Muthuswamy Karthi, Shanmugamprema Deepankumar, Ponnusamy Vinithra, Subramanian Gowtham, Krishnan Vasanth, Palanivelu Praveen Raj, Rajasekaran Senthilkumar, Subramaniam Selvakumar

17. Green synthesis and characterization of zinc oxide nanoparticles using *Berberis tinctoria* Lesch. leaves and fruits extract of multi-biological applications.

Nanomedicine Research Journal Volume 6 Issue 2 Pages 128-147 (April 2021)

Vignesh Arumugam, Selvakumar Subramaniam, Vasanth Krishnan

16. A simple and efficient Agrobacterium-mediated in planta transformation protocol for horse gram (*Macrotyloma uniflorum* Lam. Verdc.)

Journal of Genetic Engineering and Biotechnology Volume 18 Issue 1 Pages 9 (December 2020)

Thomas Cheeran Amal, Palanisamy Karthika, Gurusamy Dhandapani, Subramaniam Selvakumar, Krishnan Vasanth

15. Fat taste signal transduction and its possible negative modulator components

Progress in Lipid Research Volume 79 Pages 101035 (July 2020)

Deepankumar Shanmugamprema, Karthi Muthuswamy, Gowtham Subramanian, Vinithra Ponnusamy, Vasanth Krishnan, Selvakumar Subramaniam

14. Insights on modulators in perception of taste modalities: a review

32 Issue 2 Pages 231-246 (December 2019)

Shanmugamprema Deepankumar, Muthuswamy Karthi, Krishnan Vasanth, Subramaniam Selvakumar

13. ERK1 and ERK2 activation modulates diet-induced obesity in mice

Biochimie Volume 137 Pages 78-87 (July 2017)

Amira Sayed Khan, Selvakumar Subramaniam, Gado Dramane, Douadi Khelifi, Naim Akhtar Khan

12. Grape seed and skin extract reduces pancreas lipotoxicity, oxidative stress and inflammation in high fat diet fed rats

Biomedicine & Pharmacotherapy Volume 84 Pages 2020-2028 (December 2016)

Faten Aloui, Kamel Charradi, Aziz Hichami, Selvakumar Subramaniam, Naim Akhtar Khan, Ferid Limam, Ezzedine Aouani



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11. ERK1/2 activation in human taste bud cells regulates fatty acid signaling and gustatory perception of fat in mice and humans

The FASEB Journal Volume 30 Issue 10 Pages 3489 (October 2016)

Selvakumar Subramaniam, Mehmet Hakan Ozdener, Souleymane Abdoul-Azize, Katsuyoshi Saito, Bilal Malik, Guillaume Maquart, Toshihiro Hashimoto, Philippe Marambaud, Mourad Aribi, Michael G Tordoff, Philippe Besnard, Naim Akhtar Khan

10. The oral lipid sensor GPR120 is not indispensable for the orosensory detection of dietary lipids in mice

Journal of lipid research Volume 56 Issue 2 Pages 369-378 (February 2015)

Déborah Ancel, Arnaud Bernard, Selvakumar Subramaniam, Akira Hirasawa, Gozoh Tsujimoto, Toshihiro Hashimoto, Patricia Passilly-Degrace, Naim-Akhtar Khan, Philippe Besnard

9. CD36-and GPR120-mediated Ca2+ signaling in human taste bud cells mediates differential responses to fatty acids and is altered in obese mice

Gastroenterology Volume 146 Issue 4 Pages 995-1005. e5 (April 2014)

Mehmet Hakan Ozdener, Selvakumar Subramaniam, Sinju Sundaresan, Omar Sery, Toshihiro Hashimoto, Yoshinori Asakawa, Philippe Besnard, Nada A Abumrad, Naim Akhtar Khan

8. Ca2+ signaling in taste bud cells and spontaneous preference for fat: unresolved roles of CD36 and GPR120

Biochimie Volume 96 Pages 8-13 (January 2014)

Souleymane Abdoul-Azize, Subramaniam Selvakumar, Hassimi Sadou, Philippe Besnard, Naim Akhtar Khan

7. Antidiabetic and antioxidant activities of *Zizyphus lotus* L aqueous extracts in Wistar rats

. Nutr. Food Sci Volume 2014 Pages 2-6 (January 2014)

C Benamar, C Baghdad, M Belarbi, S Subramaniam, A Hichami, NA Khan

6. S-nitrosylation of the death receptor Fas promotes Fas ligand-mediated apoptosis in cancer cells

Gastroenterology Volume 140 Issue 7 Pages 2009-2018. e4 (July 2011)

Lissbeth Leon-Bollotte, Selvakumar Subramaniam, Olivier Cauvard, Stéphanie Plenquette-Colas, Catherine Paul, Cindy Godard, Antonio Martinez-Ruiz, Patrick Legembre, Jean-François Jeannin, Ali Bettaieb

5. HSP27 controls GATA-1 protein level during erythroid cell differentiation

Blood, The Journal of the American Society of Hematology Volume 116 Issue 1 Pages 85-96 (August 2010)

urelie de Thonel, Julie Vandekerckhove, David Lanneau, Subramaniam Selvakumar, Genevieve Courtois, Adonis Hazoume, Mathilde Brunet, Sébastien Maurel, Arlette Hammann, Jean Antoine Ribeil, Yael Zermati, Anne Sophie Gabet, Joan Boyes, Eric Solary, Olivier H

4. Stressor-specific induction of heat shock protein 70 in the freshwater prawn *Macrobrachium malcolmsonii*

(H. Milne Edwards) exposed to the pesticides endosulfan and carbaryl

Pesticide Biochemistry and Physiology Volume 82 Issue 2 Pages 125-132 (July 2005)

S Selvakumar, P Geraldine, S Shanju, T Jayakumar

3. Heat shock protein induction in the freshwater prawn *Macrobrachium malcolmsonii*: acclimation-influenced variations in the induction temperatures for Hsp70

Comparative Biochemistry and Physiology Part A: Molecular & Integrative Physiology Volume 140 Issue 2 Pages 209-215 (February 2005)

S Selvakumar, P Geraldine

2. Thermal modulation of pyruvate metabolism in the freshwater prawn *Macrobrachium malcolmsonii*: the role of lactate dehydrogenase

Fish physiology and biochemistry Volume 29 Pages 149-157 (May 2003)

S Selvakumar, Philip Geraldine

1. Biochemical changes in the muscle of freshwater prawn *Macrobrachium malcolmsonii* (H. Milne Edwards) during frozen storage

Journal of food science and technology Volume 39 Issue 5 Pages 475-478 (January 2002)

S Selvakumar, V Bindhumol, P Geraldine

National Journals - 1

1. Quality changes in freshwater prawn *Macrobrachium malcolmsonii* (H. Milne Edwards) during storage

ASIAN JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND ENVIRONMENTAL SCIENCES Volume 4 Issue 1 Pages 37-41 (January 2002)

S Selvakumar, V Bindhumol, P Geraldine



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