# Bharathiar University

State University I "A++" Grade by NAAC I 46th Rank in MoE-NIRF
Maruthamalai Road, Coimbatore, Tamil Nadu - 641 046.


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

Bharathiar University
Coimbatore, 641046
Tamil Nadu
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**Research Area**

- Cell Signaling
- Cancer Biology
- Stress Physiology
- Nutrition

**Courses Teaching**

- 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:** 25

**Teaching Experience:** 11

**Research Credentials** (as on September 2025 – Source: Google scholar)
H-index: 19 Citations: 1447 i10-index: 33

**Patents :** Filed: 1

**Publications**
International Journals: 66 National Journals: 1 Books/Chapters: 2
Conferences: 3

**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 - September 2025

**Education**

**Ph. D.**
Subject : Biochemistry
Institution : Bharathidasan University
Affiliated University : Bharathidasan University
Year of Award : February 2006

**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**
**National Level**
Ongoing - 3 completed - 5

**Research Guidance**
**Completed**
M.Phil. - 2 Ph.D. - 3
**Submitted**
Ph.D. - 1
**On Going**
Ph.D. - 4

## Programs organized

1. National Conference on Millet Cultivation and Conservation of Plants in Herbal Garden ( 2023-12-21 - 2023-12-22 )
2. Workshop on Basic Molecular Biology Techniques ( 2018-05-21 - 2019-05-29 )

## Publications

### International Journals - 66

**66. Fluorescence turn ON/OFF fluorophore- quencher complexes (Zn2+/Fe2+) of 2,3-dihydro-4-hydroxy-chromene Schiff base as chemosensor, live cellimaging (in vitro/ in vivo), DFT studiesand proficient cytotoxic agents**

Journal of Molecular Liquids (July 2025)
Mohanasundaram Ranjani, Vasanthakumar Keerthana, Subramaniam Selvakumar, Vincent M Lynch, Amirthalingam Mohankumar, Sundararaj Palanisamy, Palaniappan Kalaivani, Rathinasabapathi Prabhakaran

**65. Structure–function relationships between the human bitter taste receptor TAS2R38 and propylthiouracil: An in?silico investigation**

IUBMB life (February 2025)
Gowtham Subramanian, Vinithra Ponnusamy, Janaranjani Murugesan, Hemamalini Vedagiri, Prabha Panneerselvan, Keerthana Vasanthakumar, Vasanth Krishnan, Selvakumar Subramaniam

**64. Delineating Notch1 and Notch2: Receptor?Specific Significance and Therapeutic Importance of Pinpoint Targeting Strategies for Hematological Malignancies**

European Journal of Haematology (February 2025)
Priyadharshini Tamizhmani, Banumathi Balamurugan, Kishore Thirunavukarasu, Velayuthaprabhu Shanmugam, Selvakumar Subramaniam, Thirunavukkarasu Velusamy

**63. 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

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

**62. Phytochemical composition, in vitro cytotoxicity and in silico ADME/Tox analysis of the active compounds of Oxalis latifolia Kunth. extracts with promising anticancer potential**

3 Biotech (January 2025)
Arumugam Vignesh, Karuppasamy Dharani, Subramaniam Selvakumar, Krishnan Vasanth

**61. T1R2/T1R3 polymorphism affects sweet and fat perception: correlation between SNP and BMI in the context of obesity development**

Human Genetics (January 2025)
Vinithra Ponnusamy, Gowtham Subramanian, Keerthana Vasanthakumar, Karthi Muthuswamy, Prabha Panneerselvan, Vasanth Krishnan, Selvakumar Subramaniam

**60. An effective bio-inspired synthesis of palladium nanoparticles using Crateva religiosa G.Forst. leaf extract: a multi-functional approach for environmental and biomedical applications**

Biomass Conversion and Biorefinery (January 2025)
Arumugam Vignesh, Thomas Cheeran Amal, Jayasankar Kalaiyarasan, Subramaniam Selvakumar, Krishnan Vasanth

**59. AIE active hydroxycoumarin-anthranilic acid coupled enamine: Sequential detection of Cu2+/S2? ions and live cell imaging application**

Microchemical Journal (December 2024)
Kuppusamy Suganthirani, Rajendran Kishore Kumar, Thangaraj Thiruppathiraja, Panneerselvan Prabha, Senthilkumar Lakshmipathi, Subramaniam Selvakumar, Jan Grzegorz Malecki, Balasubramanian Murugesapandian

**58. FAHFA promotes intracellular calcium signaling via activating the fat taste receptor, CD36 and Src protein kinases in mice taste bud cells**

Biochimica et Biophysica Acta (BBA)-General Subjects (December 2024)
Karthi Muthuswamy, Keerthana Vasanthakumar, Prabha Panneerselvan, Lokesh Thangamani, Vasanth Krishnan, Shanmughavel Piramanayagam, Selvakumar Subramaniam

**57. Enlightening the biotechnological approaches of legumes: present and past scenario to mitigate the biotic and abiotic stress**

Plant Biotechnology Reports (September 2024)
Janani Sree Sivakumar, Dhandapani Gurusamy, Selvakumar Subramaniam, Vasanth Krishnan

**56. Fluorophore–quencher complexes (Cu 2+/Al 3+) of coumarin Schiff bases as chemosensors for the detection of l-glutamic acid and l-arginine: in vitro and in vivo studies**

Dalton Transactions (August 2024)
M Ranjani, GA Thiruppathi, V Keerthana, M Ramya, P Kalaivani, S Selvakumar, R Shankar, K Srinivasan, P Sundararaj, R Prabhakaran

**55. The gustin gene variation at rs2274333 and PROP taster status affect dietary fat perception: a stepwise multiple regression model study**

The Journal of Nutritional Biochemistry (June 2024)
Gowtham Subramanian, Vinithra Ponnusamy, Keerthana Vasanthakumar, Prabha Panneerselvan, Vasanth Krishnan, Selvakumar Subramaniam

**54. Influence of ecological factors on the phytochemical composition and bioactivity of Berberis tinctoria Lesch. wild edible fruits**

Biochemical Systematics and Ecology (February 2024)
Arumugam Vignesh, Thomas Cheeran Amal, Ramamoorthy Sivalingam, Subramaniam Selvakumar, Krishnan Vasanth

**53. Organosulfur Compound Identified from Striga angustifolia (D. Don) C.J. Saldanha Inhibits Lung Cancer Growth and Induces Apoptosis via p53/mTOR Signaling Pathway**

Applied biochemistry and biotechnology (December 2023)
Kannan Raja, Arumugam Vignesh, Ponnusamy Lavanya, Manoharan Ravi, Subramaniam Selvakumar, Krishnan Vasanth

**52. Insights on the functional dualism of nitric oxide in the hallmarks of cancer**

Biochimica et Biophysica Acta (BBA)-Reviews on Cancer (November 2023)
Prabha Panneerselvan, Keerthana Vasanthakumar, Karthi Muthuswamy, Vasanth Krishnan, Selvakumar Subramaniam

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

**51. 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

**50. CD36 genetic polymorphism and salivary cues are associated with oleic acid sensitivity and dietary fat intake**

Nutrition Bulletin (September 2023)
Karthi Muthuswamy, Deepankumar Shanmugamprema, Gowtham Subramanian, Vinithra Ponnusamy, Keerthana Vasanthakumar, Vasanth Krishnan, Praveen Raj Palanivelu, Senthilkumar Rajasekaran, Selvakumar Subramaniam

**49. Exercise modifies fatty acid perception and metabolism**

Acta Physiologica (August 2023)
Deepankumar Shanmugamprema, Karthi Muthuswamy, Vinithra Ponnusamy, Gowtham Subramanian, Keerthana Vasanthakumar, Vasanth Krishnan, Selvakumar Subramaniam

**48. 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

**47. Multifaceted Chiral Probe 2,3-Dihydro-4-hydroxy-chromene Schiff Base in Detecting Cu2+ Ions, l-Histidine, and Indazole: Spectroscopic Investigation and Confocal and Live Cell Imaging**

ACS Applied Bio Materials (June 2023)
Mohanasundaram Ranjani, Vasanthakumar Keerthana, Subramaniam Selvakumar, Vincent M Lynch, Amirthalingam Mohankumar, Sundararaj Palanisamy, Palaniappan Kalaivani, Rathinasabapathi Prabhakaran

**46. 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

**45. Exploration of phytochemicals and probing potential effects of Priva cordifolia active extract on PACAP 38 and its nociceptor in the human trigeminovascular system**

3 Biotech (February 2023)
Dipshika N Motwani, Arumugam Vignesh, Kannan Raja, Subramaniam Selvakumar, Krishnan Vasanth

**44. Tongue papillae density and fat taster status-a cardinal role on sweet and bitter taste perception among Indian population**

Food Research International (January 2023)
inithra Ponnusamy, Gowtham Subramanian, Karthi Muthuswamy, Deepankumar Shanmugamprema, Keerthana Vasanthakumar, Vasanth Krishnan, Selvakumar Subramaniam

**43. 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

**42. CD36 and GPR120 mediated orogustatory perception of dietary lipids and its physiological implication in the pygmy mouse Mus booduga**

Journal of Animal Physiology and Animal Nutrition (November 2022)
Deepankumar Shanmugamprema, Karthi Muthuswamy, Vinithra Ponnusamy, Gowtham Subramanian, Thirunavukkarasu Velusamy, Vasanth Krishnan, Selvakumar Subramaniam

**41. 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

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

**40. 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

**39. 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 TechnologyVolume67Pages102945 (January 2022)
Kannan Raja, Venkatachalam Balamurugan, Subramaniam Selvakumar, Krishnan Vasanth

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

Nutrition and CancerVolume74Issue1Pages225-236 (January 2022)
Vasanth Krishnan, Selvakumar Subramaniam, Chang Chia–Chuan, Balamurugan Venkatachalam, Amal Thomas Cheeran, Huang Chi-Ying F

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

Materials Today: ProceedingsVolume48Pages322-329 (January 2022)
Venkatachalam Balamurugan, Kannan Raja, Subramaniam Selvakumar, Krishnan Vasanth

**36. Fluorescent Cu (II) complex as chemosensor for the detection of l-Aspartic acid with high selectivity and sensitivity**

norganica Chimica Acta (January 2022)
M Ranjani, P Kalaivani, F Dallemer, S Selvakumar, T Kalpana, R Prabhakaran

**35. Anti-proliferative phytoconstituents from Striga angustifolia (D. Don) CJ Saldanha–An in vitro and in silico approach**

Phytomedicine Plus (August 2021)
Kannan Raja, Subramaniam Selvakumar, Rajan Rakkiyappan, Kumarasamy Pradeepa Veerakumari, Krishnan Vasanth

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

Trends in Phytochemical ResearchVolume5Issue2Pages71-92 (July 2021)
Arumugam Vignesh, Kumarasamy Pradeepa Veerakumari, Subramaniam Selvakumar, Rajan Rakkiyappan, Krishnan Vasanth

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

Molecular Nutrition & Food ResearchVolume65Issue10Pages2001224 (May 2021)
Gowtham Subramanian, Deepankumar Shanmugamprema, Ramya Subramani, Karthi Muthuswamy, Vinithra Ponnusamy, Kalpana Tankay, Thirunavukkarasu Velusamy, Vasanth Krishnan, Selvakumar Subramaniam

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

Clinical NutritionVolume40Issue5Pages2707-2715 (May 2021)
Muthuswamy Karthi, Shanmugamprema Deepankumar, Ponnusamy Vinithra, Subramanian Gowtham, Krishnan Vasanth, Palanivelu Praveen Raj, Rajasekaran Senthilkumar, Subramaniam Selvakumar

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

Nanomedicine Research JournalVolume6Issue2Pages128-147 (April 2021)
Vignesh Arumugam, Selvakumar Subramaniam, Vasanth Krishnan

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

Journal of Genetic Engineering and BiotechnologyVolume18Issue1Pages9 (December 2020)
Thomas Cheeran Amal, Palanisamy Karthika, Gurusamy Dhandapani, Subramaniam Selvakumar, Krishnan Vasanth

**29. Fat taste signal transduction and its possible negative modulator components**

Progress in Lipid ResearchVolume79Pages101035 (July 2020)
Deepankumar Shanmugamprema, Karthi Muthuswamy, Gowtham Subramanian, Vinithra Ponnusamy, Vasanth Krishnan, Selvakumar Subramaniam

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

**28. Fat taste signal transduction and its possible negative modulator components**

Progress in Lipid Research (July 2020)
Deepankumar Shanmugamprema, Karthi Muthuswamy, Gowtham Subramanian, Vinithra Ponnusamy, Vasanth Krishnan, Selvakumar Subramaniam

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

Nutrition research reviews (December 2019)
Shanmugamprema Deepankumar, Muthuswamy Karthi, Krishnan Vasanth, Subramaniam Selvakumar

**26. Somatic Embryogenesis and Plant Regeneration in Gloriosa superba L.: An Endangered Medicinal Plant**

In vitro Plant Breeding towards Novel Agronomic Traits: Biotic and Abiotic Stress Tolerance (September 2019)
Venkatachalam Balamurugan, Thomas Cheeran Amal, Palanisamy Karthika, Subramanian Selvakumar, Krishnan Vasanth

**25. Differential intracellular localization of Hsp70 in the gill and heart tissue of fresh water prawn Macrobrachium malcolmsonii during thermal stress**

Molecular Biology Reports (October 2018)
Karthi Muthuswamy, Deepankumar Shanmugam Prema, Vasanth Krishnan, Geraldine Pitchairaj, Selvakumar Subramaniam

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

BiochimieVolume137Pages78-87 (July 2017)
Amira Sayed Khan, Selvakumar Subramaniam, Gado Dramane, Douadi Khelifi, Naim Akhtar Khan

**23. Facial cutaneo-mucosal venous malformations can develop independently of mutation of TEK gene ?but may be associated with excessive expression of Src and p-Src**

Journal of Negative Results in BioMedicine (March 2017)
Nabila Brahami, Selvakumar Subramaniam, Moudjahed Saleh Al-Ddafari, Cecile Elkaim, Pierre-Olivier Harmand, Badr-Eddine Sari, Gérard Lefranc, Mourad Aribi

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

Biomedicine & PharmacotherapyVolume84Pages2020-2028 (December 2016)
Faten Aloui, Kamel Charradi, Aziz Hichami, Selvakumar Subramaniam, Naim Akhtar Khan, Ferid Limam, Ezzedine Aouani

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

The FASEB JournalVolume30Issue10Pages3489 (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

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

Journal of lipid researchVolume56Issue2Pages369-378 (February 2015)
Déborah Ancel, Arnaud Bernard, Selvakumar Subramaniam, Akira Hirasawa, Gozoh Tsujimoto, Toshihiro Hashimoto, Patricia Passilly-Degrace, Naim-Akhtar Khan, Philippe Besnard

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

Journal of Nutrition & Food Sciences (September 2014)
C Benammar, C Baghdad, M Belarbi, S Subramaniam, A Hichami, NA Khan

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

GastroenterologyVolume146Issue4Pages995-1005. e5 (April 2014)
Mehmet Hakan Ozdener, Selvakumar Subramaniam, Sinju Sundaresan, Omar Sery, Toshihiro Hashimoto, Yoshinori Asakawa, Philippe Besnard, Nada A Abumrad, Naim Akhtar Khan

**17. CD36 and GPR120 differently mediate Ca2+ signaling in human taste bud cells**

FUNDAMENTAL & CLINICAL PHARMACOLOGY (April 2014)
Selvakumar Subramaniam, Mehmet Hakan Ozdener, Sinju Sundaresan, Omar Šerý, Philippe Besnard, Nada A Abumrad, Naim Akhtar Khan

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

BiochimieVolume96Pages8-13 (January 2014)
Souleymane Abdoul-Azize, Subramaniam Selvakumar, Hassimi Sadou, Philippe Besnard, Naim Akhtar Khan

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

. Nutr. Food SciVolume2014Pages2-6 (January 2014)
C Benammar, C Baghdad, M Belarbi, S Subramaniam, A Hichami, NA Khan

**14. STIM1 is indispensable for Ca2+ signaling and fat preference in mice: P1-031**

Fundamental and Clinical Pharmacology (June 2013)
S Abdoul-Azize, G Dramane, S Selvakumar, H Sadou, P Besnard, N Khan

**13. Cell signaling and lipid taste perception in mice: Role of MAPK: 16-01**

Fundamental and Clinical Pharmacology (June 2013)
S Abdoul-Azize, S Subramaniam, G Dramane, AM Simonin, H Sadou, P Besnard, N Khan

**12. Docosahexaenoic acid (DHA) modulates calcium signaling independently of CD36 in murine taste buds cells: P1-010**

Fundamental and Clinical Pharmacology (June 2013)
G Dramane, SA Akpona, S Subramaniyum, NA Khan

**11. STIM1 is indispensable for the lingual CD36-mediated Ca (2+) signaling and spontaneous preference for fat**

Medecine Sciences: M/S (December 2012)
Souleymane Abdoul-Azize, Gado Dramane, Selvakumar Subramanium, Anne-Marie Simonin, Philippe Besnard, N Akhtar Khan

**10. STIM1, CD36 lingual et perception gustative lipidique**

médecine/sciences (December 2012)
Souleymane Abdoul-Azize, Gado Dramane, Selvakumar Subramanium, Anne-Marie Simonin, Philippe Besnard, Naim Akhtar Khan

**9. Role of Src kinases in docosahexaenoic acid induced calcium influx via TRPC 3, 6 channels in human T-cells: P070**

Fundamental and Clinical Pharmacology (April 2012)
A Hichami, S Subramaniam, H Sadou, NA Khan

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

GastroenterologyVolume140Issue7Pages2009-2018. e4 (July 2011)
Lissbeth Leon-Bollotte, Selvakumar Subramaniam, Olivier Cauvard, Stéphanie Plenchette–Colas, Catherine Paul, Cindy Godard, Antonio Martinez–Ruiz, Patrick Legembre, Jean–François Jeannin, Ali Bettaieb

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

Blood, The Journal of the American Society of HematologyVolume116Issue1Pages85-96 (August 2010)
urelie de Thonel, Julie Vandekerckhove, David Lanneau, Subramaniam Selvakumar, Genevieve Courtois, Adonis Hazoume, Mathilde Brunet, Sebastien Maurel, Arlette Hammann, Jean Antoine Ribeil, Yael Zermati, Anne Sophie Gabet, Joan Boyes, Eric Solary, Olivier H

**6. 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 PhysiologyVolume82Issue2Pages125-132 (July 2005)
S Selvakumar, P Geraldine, S Shanju, T Jayakumar

**5. 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 PhysiologyVolume140Issue2Pages209-215 (February 2005)
S Selvakumar, P Geraldine

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

Fish physiology and biochemistryVolume29Pages149-157 (May 2003)
S Selvakumar, Philip Geraldine

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

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

Journal of food science and technology (September 2002)
Selvakumar, V Bindhumol, P Geraldine

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

ASIAN JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND ENVIRONMENTAL SCIENCES (June 2002)
S Selvakumar, V Bindhumol, P Geraldine

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

Journal of food science and technologyVolume39Issue5Pages475-478 (January 2002)
S Selvakumar, V Bindhumol, P Geraldine

### Books/Chapters - 2

**2. Anti-inflammatory effect of grape seed and skin extract (GSSE) in the pancreas and Min-6 cell line**

5th Anniversary of the FEPS, 168th Anniversary of French Physiological Society (June 2016)
Faten Aloui, Aziz Hichami, Silva Comar Subramaniam, Farid Limam, Ezzedine Aouani, Naim Akhtar Khan

**1. Hsp70 and hsp27 as pharmacological targets in apoptosis modulation for cancer therapy**

Heat Shock Proteins in Cancer (July 2007)
M Brunet, C Didelot, S Subramaniam, AL Rérole, A de Thonel, C Garrido

### Conferences - 3

**3. The role of CD36-and GPR120 in response to fatty acids in cultured human taste papillae (HBO) cells.**

CHEMICAL SENSES (May 2016)
Mehmet Hakan Ozdener, Selvakumar Subramaniam, Sinju Sundaresan, Omar Sery, Toshihiro Hashimoto, Yoshinori Asakawa, Philippe Besnard, Nada A Abumrad, Naim A Khan

**2. GRAPE SEED AND SKIN EXTRACTS (GSSE) MODULATE ADIPOCYTE INFLAMMATION IN RATS**

ACTA PHYSIOLOGICA (May 2015)
Faten Aloui, Selvakumar Subramaniam, Ferid Limam, Ezzedine Aouani, Naim Akhtar Khan

**1. Role of CD36 and GPR120 in fatty acid-mediated Ca2+ Signaling in human and mouse taste bud cells**

CHEMICAL SENSES (March 2015)
Selvakumar Subramaniam, Mehmet Hakan Ozdener, Sinju Sundaresan, Omar Sery, Toshihiro Hashimoto, Yoshinori Asakawa, Philippe Besnard, Nada A Abumrad, Naim Akhtar Khan

### National Journals - 1

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

ASIAN JOURNAL OF MICROBIOLOGY BIOTECHNOLOGY AND ENVIRONMENTAL SCIENCESVolume4Issue1Pages37-41 (January 2002)
S Selvakumar, V Bindhumol, P Geraldine

## Patents

### Filed - 1

1. Convenient synthesis of 2-(2-Hydroxy-benzyl)-butane-1,3-diol derivatives as efficient fat taste modulators 01-1970 IPR, Bharathiar University on 27.07.2023 R. Prabhakaran, M. Ranjani, V.Keerthana and S. Selvakumar

## Projects

### Ongoing - 3

1. Functional repair of mutant RB1 by CRISPR-mediated gene editing in retinal tumor cells of bilateral RB patients ICMR 56,00,000 ( - )

2. Trans fat induced alterations in oral fat taste perception and obesity risk: correlation to polymorphism in GPR120 CMRG 35,07,000 (December 2024 - December 2027)

3. Understanding the interplay between NUAK/MARK isoforms mediated metabolic reprogramming and nitric oxide-induced DAXX/JNK signaling in oral and colon cancer for its therapeutic evaluation ICMR 79,45,728/- (April 2024 - March 2028)

### Completed - 5

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

1. Mechanism of anticancer drugs to enhance the Fas receptor expression (FasL) on cancer cells to induce apoptosis sensitivity in immune system and to study the role of NO in sensitizing the cancer cells to Fas mediated apoptosis. RUSA 2.0 - BCTRC 15,88,000 (December 2020 - December 2024)

2. Oro-gustatory perception of dietary fat and calcium signaling in taste bud cells of Indian field mouse Mus booduga: implication in prevention of obesity Others 10,00,000 (February 2017 - February 2019)

3. Oro-gustatory sensing of dietary lipids and CD36 genetic polymorphism in obese subjects in India : implication in prevention of obesity development DST – SERB 44,84,122 (March 2017 - March 2020)

4. Oro-gustatory perception of dietary lipids and genetic polymorphism in bitter taste receptor TAS2R38 in Indian subjects: implication in prevention of obesity development ICMR 24,74,472 (November 2019 - May 2022)

5. CD36 and GPR120 mediated cell signaling mechanisms in taste bud cells implication in prevention of obesity development TANSCHE 20,64,750 (April 2021 - April 2024)