

Dr. Velayuthaprabhu Shanmugam

Assistant Professor

Master : *Biochemistry from Bharathidasan University, India*

Ph.D., : *Biochemistry from Bharathidasan University, India*

Postdoc: *Tokai University School of Medicine, Tokyo, Japan*

Taipei Medical University, Taipei, Taiwan

Chang Gung University, Taoyuan, Taiwan



FIELD OF INTEREST

- Autoimmunity
- Reproductive Immunology
- Placental Apoptosis
- Inflammatory diseases
- Immunopathology
- Cell signaling

EXPERIENCE AND POSITION HELD

Total Experience: **Research: 9 years** **Teaching: 1 year**

2016 onwards	Assistant Professor , Department of Biotechnology, Bharathiar University, Coimbatore, Tamil Nadu, INDIA
2013 - 2016	CSIR-Research Associate , Department of Animal Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu, INDIA.
2012 - 2013	Guest-Lecturer , Department of Basic Medical Sciences, Bharathidasan University, Tiruchirappalli - 620 024, Tamil Nadu, INDIA.
2011	Post Doctoral Fellow at Department of Physiology and Pharmacology, School of Medical Sciences, Chung Gung University, TAIWAN.
2010	Post Doctoral Fellow at School of Respiratory medicine, Graduate Institute of Medical Science, Taipei Medical University, TAIWAN.
2008	MIF-Post Doctoral Research Fellow , Department of Obstetrics and Gynecology, Tokai University School of Medicine, Tokyo, JAPAN
2008 - 2010	CSIR- Senior Research Fellow , Department of Animal Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu, INDIA.
2003 - 2008	Research Scholar , Department of Animal Science, Bharathidasan University, Tiruchirappalli, Tamil Nadu, INDIA.

HONORS AND AWARDS

- **Research Associateship (RA)** by the Council of Scientific and Industrial Research (CSIR), New Delhi, INDIA (2013).
- **NSC postdoctoral Fellowship**, Taiwan (2010 and 2011).
- **Matsumae International Fellowship**, Japan (2008).
- **Senior Research Fellowship (SRF)** by the Council of Scientific and Industrial Research (CSIR), New Delhi, INDIA (2008).
- **University Research Studentship** by Bharathidasan University. (2005).
- **DST Travel grant** to attend Asian Congress on autoimmunity in Singapore (2009)
- **CSIR Travel grant** (2009)

PUBLICATIONS

Articles:

Shanmugam Velayuthaprabhu and Govindaraju Archunan (2005). Evaluation of Anticardiolipin antibodies and Antiphosphatidylserine antibodies in women with recurrent abortion. *Indian. J. med. Sci.* **59**: 347-352. (IF: 0.86). ISSN: 0019-5359.

Shanmugam Velayuthaprabhu, Govindaraju Archunan and Kumbalingam Balakrishnan (2007). Placental Thrombosis in Experimental Anticardiolipin Antibodies-Mediated Intrauterine Fetal Death. *Am. J. Reprod. Immunol.* **57**: 270-276. (IF: 3.05). ISSN: 1600-0897.

Kunga Mohan Ramkumar, Ramasamy Subramaniam Vijayakumar, Ponnirul Ponmanickam, **Shanmugam Velayuthaprabhu**, Govindaraju Archunan, Palanisamy Rajaguru (2008). Antihyperlipidemic effect of *Gymnema montanum*: A study on lipid profile and fattyacid composition in experimental diabetes. *Basic clinical pharmacology and Toxicology.* **103**: 538-545. (IF: 2.17). . ISSN: 1742-7843.

Kunga Mohan Ramkumar, Ponnirul Ponmanickam, **Shanmugam Velayuthaprabhu**, Govindaraju Archunan, Palanisamy Rajaguru, (2009). Protective effect of *Gymnema montanum* against renal damage in experimental diabetic rats. *Food and Chemical Toxicology.* **47**: 2516-2521. (IF: 2.9). ISSN: 0278-6915.

Subburayalu Alagendran, Govindaraju Archunan, **Shanmugam Velayuthaprabhu**, B. Enrique-A Orozco, R.G. Guzman (2010). Biochemical evaluation in human saliva with special reference to ovulation detection. *Indian J Dent Res.* 21: 165-8. **ISSN: 0970-9290.**

Shanmugam Velayuthaprabhu, Hidehiko Matsubayashi, Toshitaka Sugi, Masato Nakamura, Yasuyuki Ohnishi, Tomoyuki Ogura, Hiroshi Hirata, Yoshimi Fujita, Hideo Tsukamoto, Tatsuhiro Tomiyama, Govindaraju Archunan (2011). A unique preliminary study on fetal resorption and placental apoptosis in mice with passive immunization of anti-phosphatidylethanolamine antibodies and anti-Factor XII antibodies. *Am. J. Reprod. Immunol.* 66: 373-384. **(IF: 3.05). ISSN: 1600-0897.**

Shanmugam Velayuthaprabhu, Hidehiko Matsubayashi, Toshitaka Sugi, Masato Nakamura, Yasuyuki Ohnishi, Tomoyuki Ogura, Govindaraju Archunan (2013). Expression of apoptosis in placenta of experimental antiphospholipid syndrome (APS) mouse. *Am. J. Reprod. Immunol.* 69(5):486-94. **(IF: 3.05). ISSN: 1600-0897.**

Subburayalu Alagendran, Samuthirapandi Munisamy, **Shanmugam Velayuthaprabhu**, Govindaraju Archunan*, Gaby Fernandez, Rosalinda Guevara Guzman and Patarcia Serverino Perez (2016). Chemical characterization of volatiles cue in women saliva. *EJBPS.* 3(4): 371-376. **(IF: 3.8). ISSN: 2349-8870.**

Muniasamy Samuthirapandi, **Velayuthaprabhu Shanmugam**, Govindaraju Archunan (2016). Gas Chromatographic Monitoring and Quantification of the Estrus -Specific Pheromone Compounds in Female Murrah Buffalo Urine. *Journal of Agriculture and Veterinary Science.* 9(6): 52-59. **ISSN: 2319-2372.**

Shanmugam Velayuthaprabhu, Hidehiko Matsubayashi, Govindaraju Archunan (2016). Beta-2 GPI induced tissue factor and placental apoptosis for the pathophysiology of pregnancy loss in antiphospholipid syndrome. *Int J Res Med Sci.* 4(8): 3109-3113. **ISSN: 2320-6071.**

Shanmugam Velayuthaprabhu, Arunachalam Chinnathambi, Sulaiman Ali Alharbi, Hidehiko Matsubayashi, Govindaraju Archunan (2016). Relationship between fetal loss and serum gonadal hormones level in experimental Antiphospholipid Syndrome Mouse. *Ind. J. Clin. Biochem.* (online first). DOI 10.1007/s12291-016-0618-1. **ISSN: 0970-1915.**

Books/Chapters

Shanmugam Velayuthaprabhu and Govindaraju Archunan (2014). Autoimmune Antiphospholipid Antibody Syndrome in Pregnancy Complications. **In:** Disease and Theranostics (Biotechnology, Vol.9); Studium Press LLC, USA. Pp.487 – 508. **ISBN: 1-62699-015-8.**

Abstracts

Shanmugam Velayuthaprabhu, Hidehiko Matsubayashi, Toshitaka Sugi, Masato Nakamura, Yasuyuki Ohnishi, Tomoyuki Ogura, Hiroshi Hirata, Tatsuhiro Tomiyama. Pathophysiology of placenta and pregnancy outcome in anti-phosphatidylethanolamine induced animal models (Abstract 110-5). *14th International Congress on Immunology, Kobe, Japan; August 22-27, 2010. Int. Immunology. 22 (suppl 1): Pp i178-183. . ISSN: 0953-8178.*

Matsubayashi H, **Velayuthaprabhu S**, Sugi T, Tomiyama T, Archunan G, McIntyre JA. Animal model for anti-phosphatidylethanolamine antibodies (aPE) or anti-factor XII antibodies with passive immunization (Abstract 33). *13th International Congress on Antiphospholipid Antibodies, Galveston, USA; April 13-16, 2010.*

CONFERENCE/CONGRESS/ SYMPOSIUM/SEMINAR/WORKSHOP

Conferences

National Conference on Frontiers in Biotechnology organized by JJ College of Arts and Science, Pudukkottai. July 21-23, 2003.

International Conference on Biotechnological approaches in Bioresearches Management organized by Department of Biotechnology, Bharathidasan University, Tiruchirappalli. January 23-26, 2007.

Congress

4th Asian Congress on Autoimmunity (International) held at Suntec, Singapore. September 11-13, 2009.

Symposiums

One day Symposium on Cancer Biochemistry Updates organized by Kidwai Memorial Institute of Oncology, Bangalore. November 17, 2001.

XX National Symposium on Reproductive Biology and Comparative Endocrinology organised by SRBCE. January 7-9, 2002.

National Symposium on Frontiers in Biotechnology organized by Department of Biotechnology, Bharathiar University, Coimbatore. February 8-9, 2007.

National Symposium on Current Trends in Biotechnology organized by Department of Biotechnology, St.Michael College of Engg. & Technology, Kalayarkoil. February 22, 2007.

Seminars

THREE day Seminar on Current developments in human genome projects organised by Department of Biotechnology, Bharathidasan University, Tiruchirappalli. March 09-11, 2001.

ONE day National Seminar on Intellectual property rights-Present Necessities and Responsibilities organized by NFMC, Bharathidasan University, Tiruchirappalli. December 9, 2002.

National Seminar on Recent trends in animal Biotechnology organized by Department of Animal Science, Bharathidasan University, Tiruchirappalli. March 17-19, 2004.

National Seminar on Special lectures in Biosciences organized by Department of Biotechnology and Bioinformatics, Bharathidasan University, Tiruchirappalli. March 31- April 1, 2004.

National Seminar on Emerging Trends in Animal Biotechnology organized by Department of Animal Science, Bharathidasan University, Tiruchirappalli. March 4-5, 2005.

National Seminar on Emerging Trends in Animal Biotechnology organized by Department of Animal Science, Bharathidasan University, Tiruchirappalli. January 27-28, 2006.

National Seminar on Current developments in Biodiesel Technology and its future prospects organized by Department of Biotechnology, Bharathidasan University, Tiruchirappalli. February 20-21, 2006.

National Seminar on Current development s in hottest areas of Biological Sciences organized by Department of Biotechnology, Bharathidasan University, Tiruchirappalli. January 30-31, 2007.

Regional Seminar on Biomolecular Modeling from Drug Discovery to Nanotechnology organized by Department of Life Sciences, Lady Doak College, Madurai. June 29-30, 2007.

National Seminar on Emerging Issues in Biodiversity Management organized by Department of Environmental Management, Bharathidasan University, Tiruchirappalli. January 8-9, 2009.

ONE day Seminar on Recent trends in Chemical Signaling organized by Center for Pheromone Technology and Department of Animal Science, Bharathidasan University, Tiruchirappalli. February 2, 2009.

Workshop

INDO-UK workshop on Molecular Biology organized by Department of Biotechnology, Bharathidasan University, Tiruchirappalli. February 4-13, 2002.

Workshop on Advanced Techniques in Reproductive Endocrinology and Fertility Management. *Sponsored and Organized by* University Grant Commission (UGC), India and Department of Zoology (Center of advanced Study) Banaras Hindu University, Varanasi. December 6-19, 2003.

National workshop on Application of Molecular tools in Animal Science Research organized by Department of Animal Science, Bharathidasan University, Tiruchirappalli. December 5-21, 2006.

Papers Presented

A Paper presented in a **XX National Symposium on Reproductive Biology and Comparative Endocrinology** on Hormonal and Biochemical analysis of blood samples in Dysfunctional Uterine Bleeding cases. XX National Symposium on Reproductive Biology and Comparative Endocrinology, Bharathidasan University, Tamil Nadu, India, on 7-9th January 2002.

A paper presented in a **National conference on Frontiers in Biotechnology** on Prevalence and assessment of antiphospholipid antibodies in recurrent Spontaneous abortion. JJ College of Arts and Science, Pudukottai, Tamil Nadu India, on 21- 23rd July 2003.

A paper presented in a **National symposium on Frontiers in Biotechnology** (NSFB) on Efficacy of beta2 GPI and CL complex in the induction of experimental Antiphospholipid syndrome. Bharathiar University, Tamil Nadu, India on 8th and 9th February 2007.

A paper presented in a **National symposium on current trends in Biotechnology** on Molecular pathogenesis for autoimmune regulating fetal demise: an experimental approach. St, Michael College of Engineering, Kalayarkoil, Tamil Nadu, India on 22nd February 2007.

A paper presented in **4th Asian Congress on Autoimmunity** on Placental pathogenesis in pregnancy failure complicated by anticardiolipin antibodies. Suntec, Singapore held on 11-13th September 2009.

MEMBERSHIP

Annual member in Society for Reproductive Biology and comparative Endocrinology (SRBCE), India.

ABROAD VISIT

Japan, Taiwan, Singapore and Malaysia

CONTACT

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