



Parthasarathy S
Professor (Retired)

Personal Details :

Address : Department of Bioinformatics
Bharathidasan University
School of Life Sciences
Tiruchirappalli – 620 024
Tamil Nadu, INDIA

Employee Number : BDU1630725

Date of Birth : 02-03-1963

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Additional Charge : Director i/c, University Informatics Centre (08 July 2015 –10 March 2023)

Academic Qualifications:

Degree	Subject	Year	University
B.Sc.	Physics	1983	University of Madras
M.Sc.	Physics	1985	Bharathidasan University
M.Phil.	Physics	1987	Bharathidasan University
Ph.D.	Physics	1993	Bharathidasan University
PGDCA	Computer Science	1991	Madurai Kamaraj University

Teaching Experience: 23 Years

Name of the post	Institution	Period	
		From	To
Professor (Head 16.03.2011 to 30.06.2019 ; 01.08.2022 to 28.02.2023)	Bharathidasan University, Trichy - 620 024	16.03.2011	31.03.2023 (Retired)
Associate Professor & Head	Bharathidasan University, Trichy - 620 024	16.03.2008	15.03.2011
Reader & Head	Bharathidasan University, Trichy - 620 024	16.03.2005	15.03.2008
Lecturer	National Institute of Technology (NIT), (Formerly REC) Trichy - 620 015	03.02.2000	15.03.2005

Research Experience: 30 Years

Name of the post	Institution	Period	
		From	To
Senior Scientist Bioinformatics	Monsanto Research Centre, I.I.Sc. Campus, Bangalore	15.04.1999	31.01.2000
Scientist	Bharathidasan University, Trichy - 620 024	09.09.1998	13.04.1999
Post-Doctoral Fellow	International Centre For Genetic Engg. & Biotechnology (ICGEB), Trieste, ITALY	01.10.1997	07.07.1998
Scientist (CSIR QRS Fellow range2)	Centre for Mathematical Modelling and Computer Simulations (C-MMACS) NAL, Bangalore	01.02.1996	31.07.1997
Post Doctoral Fellow (DBT)	Centre for Cellular and Molecular Biology (CCMB), Hyderabad	28.04.1993	31.01.1996

Additional Responsibilities

1. Member of the Syndicate : October 2014 – October 2017
2. Member of the Senate : March 2005 – February 2023
3. Member of the Standing Committee on Academic Affairs (SCAA) : March 2005 – October 2014
4. Head of the Department of Bioinformatics : March 2005 – June 2019 ; August 2022 – February 2023
5. Director i/c, University Informatics Centre (UIC) : 08 July 2015 – 10 March 2023
6. Director i/c, Council for College and Curriculum Development (CCCD) : 25 Jan 2011 – 28 Sep 2011
7. Special Officer to the Vice Chancellor (During 11 February 2008 – 31 June 2008)

Areas of Research

Bioinformatics, Computational Systems Biology, Nonlinear Dynamics and Chaos

Research Supervision / Guidance

Program of Study		Completed	Ongoing
Research	Ph.D.	6	1
	M.Phil.	18	0
Project	PG	22	0
	UG / Others	0	0

Publications

International		National		Others
Journals	Conferences	Journals	Conferences	Books / Chapters
42	7	2	4	3

Total Citations (Google Scholar) : 930

h-index : 14

i10 index : 19

Cumulative Impact Factor (as per JCR) : 128.0

Google Scholar : <https://scholar.google.co.in/citations?user=nYFT05UAAAAJ&hl=en>

ORCID : <https://orcid.org/0000-0003-3936-0102>

Scopus ID : <https://www.scopus.com/authid/detail.uri?authorId=56156526300>

Funded Research Projects

Completed Projects

S. No	Agency	Period		Project Title	Budget (Rs. In lakhs)
		From	To		
1	UGC	2012	2015	Identification of new inhibitors of penicillin binding protein 2B (PBP2B) of the Resistant strain of <i>Streptococcus pneumoniae</i> using structure based virtual screening	11.16
2	DIT	2008	2011	Development of Twilight Zone Sequence Annotation Tool using Structural Properties for the Annotation of Hypothetical Genes of Plant Genomes	24.88
3	DRDO	2005	2008	Chaotic Cryptography using Digital Signal Processors - Application to Secure Communication	13.40
4	CSIR	2004	2007	Nonlinear Dynamics of Pulsed Chaotic Circuits	8.21
5	DRDO	2002	2005	Bifurcations and Chaos in Periodically Pulsed Nonlinear Electronic Circuits - Application to Chaotic Cryptography and Secure Communication	8.46

Patents

Dr. S. Parthasarathy (2019) Generation of Never Born Protein Sequences Using Toeplitz Matrices. File Number 201941004408. <https://ipindiaservices.gov.in/publicsearch>

Distinctive Achievements / Awards

1. Awarded 'President of India Cash Prize' for the best paper presented in the 31st Congress of the Indian Society for Theoretical and Applied Mechanics (ISTAM) held at Jiwaji Univ., Gwalior, India during October 24-27, 1986.
2. Selected as a Speaker in the Theoretical Physics Seminar Circuit (TPSC) programme for the year 1995-96 & 1998-99.
3. Awarded DBT Post Doctoral Fellowship at Cellular and Molecular Biology (CCMB), Hyderabad during April 1993 - January 1996.
4. Awarded Post Doctoral Fellowship at International Centre for Genetic Engineering and Biotechnology (ICGEB), Trieste, ITALY during October 1997 - August 1998, through Department of Biotechnology (DBT), Govt. of India, New Delhi.

Events organized in leading roles

Number of Seminars / Conferences / Workshops / Events organized: 3

1. National Seminar on Bioinformatics (NSB'07) during March 3-4, 2007
2. Third Indo-US Lecture Series in Discrete Mathematical Chemistry - Special Lectures on Chemoinformatics and Bioinformatics during January 7-10, 2008 (Jointly with Prof. Subhash Basak, NRRI, Minnessotta, USA)
3. National Seminar on Bioinformatics (NSB'09) during February 23 - 24, 2009

Overseas Exposure / Visits

1. International Centre for Theoretical Physics, Trieste, ITALY, 9 - 27 September 1991. To participate in 'School on Dynamical Systems'
2. International Centre for Theoretical Physics, Trieste, ITALY, 24 October - 11 November 1994, To participate in 'Fourth Autumn Course on Mathematical Ecology'
3. Dept of Physics, Univ of Warwick, Coventry, UNITED KINGDOM, 12 - 17 November 1994, To do collaborative research and deliver a lecture
4. Dept of Zoology, Univ of Oxford, Oxford, UNITED KINGDOM, 18 November 1994, To visit and deliver a lecture
5. Dept of Appl Physics, Univ of Cantabria, Santander, SPAIN, 24 May - 14 June 1996. To do collaborative research and deliver a lecture
6. Dept of Mathematics, Univ of Patras, Patras, GREECE, 15 - 20 June 1996, To do collaborative research and deliver a lecture
7. International Centre for Theoretical Physics, Trieste, ITALY, 20 June - 29 July 1996. To participate in 'Workshop on Nonlinear Control & Control of Chaos'
8. International Centre for Genetic Engg. & Biotechnology, Trieste, ITALY, 1 October 1997 - 7 August 1998, To do post-doctoral research & training
9. Dept of Ecology and Evolutionary Biology, University of Tennessee, Knoxville, USA, 12 - 15 May 2003, To deliver a lecture and to do collaborative research
10. Centre for Nonlinear Studies, Georgia Institute of Technology, Atlanta, Georgia, USA, 16 - 20 May 2003, To deliver a lecture and to do collaborative research
11. Morehouse College, Atlanta, Georgia, USA, 21-24 May 2003, To participate, present a paper and chair a session in the 'Fourth International Conference on Dynamical Systems and Applications (ICDSA04)'
12. University of North Texas, Denton, Texas, USA, 25-29 May 2003, To participate and present a paper in the 'Dynamical Systems Conference Denton 2003 (DSD03)'
13. International Centre for Genetic Engg. & Biotechnology, Trieste, ITALY, 19 - 26 May 2007, To do collaborative research
14. National Resources Research Institute (NRRI), University of Minnesota-Duluth, Duluth, USA, 26 - 29 May 2007, To deliver a lecture and to do collaborative research

15. Morehouse College, Atlanta, Georgia, USA, 30 May 2007 - 2 June 2007 - To participate, present a paper and chair a session in the 'Fifth International Conference on Dynamical Systems and Applications (ICDSA5)'
16. Department of Mathematics, University of Louisville, Kentucky, USA, 3 - 6 June 2007, To deliver a lecture and to do collaborative research

List of Seminars/ Conferences/ Symposia/ Workshops attended

Name of the Seminar/Conference/Symposia/Workshop, etc.	Place and Date
1. Symposium on 'Chaos and Turbulence'	Physical Research Laboratory, Ahmedabad March 3-6, 1986
2. National Symposium on 'Recent Developments in Theoretical Physics'	CMS college, Kottayam Sep. 15-19, 1986
3. 31 st Congress of Indian Society of Theoretical and Applied Mechanics and Symposium on "Heat and Mass Diffusion in Nonhomogeneous Composite Media"	Jiwaji Univ., Gwalior Oct. 24-27, 1986
4. Second Winter School on 'Bifurcation Theory and Applications'	Dept. of Appl. Maths, IISc., Bangalore Dec. 15-27, 1986
5. Winter School on 'Solitons'	Dept. of Physics, Bharathidasan Univ., Trichy Jan. 5-17, 1987
6. Workshop on 'Computational and Computer Oriented Studies on Soliton Systems'	Dept. of Appl. Maths, Calcutta Univ., Calcutta Jan. 29 - Feb. 1, 1987
7. 57 th Annual Session of the National Academy of Sciences, India.	Bharathidasan Univ., Trichy Oct. 7 - 10, 1987
8. Workshop on 'Symmetries and Singularity Structure Aspects of Nonlinear Dynamical Systems'	Dept. of Physics, Bharathidasan Univ., Trichy Nov. 29 - Dec. 2, 1989
9. School on 'Dynamical Systems'	International Centre for Theoretical Physics, Trieste, ITALY Sep. 9 - 27, 1991

10. Winter School on 'Manifolds and Physics'
Dept. of Physics,
Bharathidasan Univ.,
Trichy
Dec. 21, 1992 –
Jan.9, 1993
11. Fourth Autumn Course on "Mathematical Ecology"
International Centre for
Theoretical Physics,
Trieste, ITALY
Oct. 24 – Nov. 11, 1994
12. Workshop on 'Nonlinear Control & Control of Chaos'
International Centre for
Theoretical Physics,
Trieste, ITALY
Jun 20 – Jul 20, 1996
13. Workshop on 'The Structure of Biological Macromolecules'
International Centre for
Theoretical Physics,
Trieste, ITALY
March 16 – 27, 1998
14. Workshop on Frontiers in 'Structural Biology'
National Center for
Biological Sciences,
Bangalore
Aug. 25 – 27, 1999
15. Symposium on 'The Drug Discovery Paradigm'
ASTRA Research
Center, Bangalore
Sep. 15 – 17, 1999
16. Workshop on 'Nonlinear Dynamics' for College Teachers (Invited Lecture)
Centre for Nonlinear
Dynamics,
Bharathidasan Univ.,
Trichy
Jan. 3-6, 2001.
17. Workshop on 'Emerging Ideas on Future Computing'
Centre for Nonlinear
Dynamics,
Bharathidasan Univ.,
Trichy
March 14, 2001.
18. Workshop on 'Experiments with He-Ne Laser & Optical Fibers'
Dept. of Physics,
Regional Engg.
College, Trichy
March 2, 2002.
19. Fourth International Conference on Dynamical Systems and Applications (ICDSA04)
Morehouse College,
Atlanta,
Georgia, USA
May 21-24, 2003.

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| 20. Dynamical Systems Conference Denton 2003 (DSD03) | Univ. of North Texas,
Denton, Texas, USA
May 25-29, 2003. |
| 21. Workshop on “Nonlinear Dynamics and Chaos”
(Invited lecture) | Sri AVVM Pushpam
College, Poondi
Oct. 9-11, 2003 |
| 22. Winter School on “Nonlinear Optics: Theory and Applications” | Center for Nonlinear Dynamics,
Bharathidasan Univ., Trichy
December 1-13, 2003. |
| 23. Short term training programme on “Emerging Energy Technologies” | CEESAT
National Institute of Technology
Trichy - 620015
May 17-28, 2004 |
| 24. Quality 2004 – National Workshop on “Advances in Non-Destructive Evaluation” | Department of Physics
National Institute of Technology
Trichy - 620015
July 29-31, 2004 |
| 25. Short term training programme on “Emerging Trends in Energy Management and Non-Conventional Energy” (SEEMNET - 2004) | Dept Chemical Engineering
National Institute of
Technology (NIT) Trichy -15
22.11.2004 to 03.12.2004 |
| 26. Seminar on “Recent Developments in Physics” | School of Physics
Bharathidasan Univ., Trichy
November 21 – 22, 2005 |
| 27. Faculty Induction Programme | Dept of Education Technology
Bharathidasan Univ., Trichy
December 26 – 27, 2005 |
| 28. National Seminar & Group Discussion meeting of DRDO Sponsored Research Project PIs in Physics | Dir. of ER&IPR, DRDO, HQ
New Delhi &
Dept of Physics, Osmania Univ.
Hyderabad
January 24 – 25, 2006 |
| 29. Accelrys workshop on Homology Based Protein Design | Accelrys &
SASTRA, Thanjavur
September 16 – 17, 2006 |
| 30. Fifth International Conference on Dynamical Systems and Applications (ICDSA5) | Morehouse College, Atlanta,
Georgia, USA,
30 May 2007 - 2 June 2007 |

31. Training programme on High Performance Computing & Multi Core Processing	C-DAC Thiruvananthapuram campus June 16-19, 2009
32. International Conference on “Frontiers in Biomedical Sciences”	Holy Cross College, Trichy – 620 002 August 26-28, 2009
33. The Eighth Asia – Pacific Bioinformatics Conference	J. N. Tata Auditorium Indian Institute of Science Bangalore January 18-21, 2010
34. National Conference on Proteomics Application: Perspectives in Health Care (NCPFH’10)	Dept. of Bioinformatics Karunya University Coimbatore January 28-29, 2010

Membership in Professional Bodies

1. Life Member (L/117): Indian Society for Theoretical and Applied Mechanics (ISTAM), IIT, Kharagpur
2. Life Member (L/0205): Cryptology Research Society of India, ISI, Kolkatta
3. Member : International Society for Computation Biology (ISCB), USA

Academic Bodies (Such as Board of Studies etc.,)

1. Representative of Bharathidasan University in Board of Studies
 - Holy Cross College, Trichy
2. Representative of Bharathidasan University in Academic Council
 - Bishop Heber College Trichy
3. Representative of Bharathidasan University in Governing Body:
 - Srimad Andavan Arts and Science College (Autonomous), Tiruchirappalli
 - K.N.Govt Arts College for Women (Autonomous), Thanjavur
 - Govt Arts College for Women (Autonomus), Kumbakonam
4. Representative of Bharathidasan University in College Committee:
 - Jairam Arts and Science College, Karur
 - Naina Mohamed College of Arts and Science, Pudukkottai
 - National College of Arts and Science, Ariyalur
 - Annai Fathima College of Education, Kumbakonam
 - Valluvar College of Science and Management, Karur

5. Board of Studies

Chairman:

- Thiruvalluvar University, Vellore (11.03.2015 – 10.03.2018);
- Bharathidasan University, Trichy (16.04.2015 – 15.04.2018)
- Manonmaniam Sundaranar University, Tirunelveli

Member:

- University of Kerala, Thiruvnanthapuram;
- Karunya University, Coimbatore;
- Bishop Heber College, Trichy;
- Jamal Mohamed College, Trichy;
- GRD College of Arts and Science, Coimbatore;
- AVC College, Mayiladuthurai;
- Lady Doak College, Madurai

Resource Person in various capacities

Number of Invited / Special Lectures delivered: 69

List of Invited Lectures

2011		
S. No	Date	Place
1	29.01.11	Bioinformatics Hands-on Training for Teachers, Dept of Physics, Lady Doak College, Madurai
2	04.02.11	Dhanalakshmi Srinivasan College, Perambalore
2010		
3	29.01.10	NCPFH'10, Dept. of Bioinformatics, Karunya University, Coimbatore
4	19.02.10	International Conference on Bioinformatics and Systems Biology, Annamalai Univ, Chidambaram
5	26.02.10	International Conference at Vivekanandha College of Engineering for women, Elayampalayam, Tiruchengode, Namakkal
6	09.03.10	Dept. of Bioinformatics, Thanthai Hans Roever College, Perambalur

7	21.04.10	Dept. of Bioinformatics, Alagappa Univ., Karaikudi
8	12.05.10	INSPIRE meeting @ Bharathidasan University
9	19.08.10	UGC Ref. Course in Life Sciences, Academic Staff College, Bharathidasan Univ., Trichy
10	15.09.10	Bioinformatics Centre, Pondicherry University, Pondicherry
11	22.09.10	Dept. of Bioinformatics, KSR College of Arts and Science, Namakkal
12	29.09.10	Dept of Zoology, Thiagarajar College, Madurai
13	12.10.10	Dept. of Biotechnology and Bioinformatics, Holy Cross College, Trichy
14	14.10.10	Dept. of Pharmaceutical Engg., Anna Univ., Trichy
15	26.10.10	Dept. of Physics, Fathima College, Madurai
16	15.11.10	UGC Ref. Course in Mathematics, Academic Staff College, Bharathidasan Univ., Trichy
17	04.12.10	UGC Ref. Course in Bioinformatics, Academic Staff College, Bharathidasan Univ., Trichy
18	21.12.10	SBCADD 2010 @ Dept of Bioinformatics, Alagappa Univ., Karaikudi
2009		
19	27.01.09	Jayaraj Anna Packiam College, Periyakulam
20	13.03.09	Thanthai Hans Roever College, Perambalur
21	14.03.09	Dept. of Biochemistry, SRC, Trichy
22	31.03.09	Centre of Advanced Study in Marine Biology, Annamalai University, Parangipettai
23	27.08.09	Intl. Conf. on "Frontiers in Biomedical Sciences"
24	17.09.09	Tamil Nadu Veterinary and Animal Science University, Chennai
25	02.10.09	MGDC, Bharathidasan Univ. Trichy
26	30.11.09	Madurai Kamaraj University, Madurai
27	22.12.09	Dept of Bioinformatics, Bharathiar Univ., Coimbatore

2008		
28	29.01.08	Dept. of Bioinformatics, Karunya University, Coimbatore
29	30.01.08	Dept. of Physics, Fathima College, Madurai
30	01.02.08	Dept. of Chemical Engg., NIT, Trichy
31	08.02.08	Sengamala Thayaar Women's College, Mannargudi
32	29.02.08	Kongunadu Arts and Science, Coimbatore
33	10.03.08	Dept of Mathematics, Govt. College for Women, Kumbakonam
34	18.03.08	Dept. of Biotechnology, Bishop Heber College, Trichy
35	20.03.08	UGC Ref. Course in Physics, Academic Staff College, Bharathidasan Univ., Trichy
36	20.11.08	Madurai Kamaraj University, Madurai
37	18.12.08	Dept of Bioinformatics, Ayya Nadar Janaki Ammal College, Sivakasi
2007		
38	06.01.07	Muthayammal College of Arts & Science, Namakkal
39	24.01.07	National College, Trichy
40	31.01.07	Dept. Biotechnology, Bharathidasan University, Trichy.
41	05.02.07	The Academic Staff College, Bharathidasan University, Trichy
42	09.02.07	Annai College of Arts & Science, Kumbakonam.
43	12.02.07	Bharathiar University, coimbatore
44	15.02.07	Pondicherry University, Pondicherry
45	27.03.07	NFMC, Bharathidasan Univ., Trichy
46	04.04.07	Karunya University, Coimbatore
47	06.04.07	Bannari Amman Institute of Technology, Sathyamangalam, Erode
48	18.04.07	Dept of Bioinformatics, SASTRA Univ., Thanjavur
49	18.07.07	KSR College of Arts and Science, Namakkal

50	16.08.07	Dept. of Zoology, Bishop Heber College, Trichy
51	13.09.07	Vivekanandha college of Engineering for women, Elayampalayam, Tiruchengode
52	19.12.07	Dept of Bioinformatics, Karunya University, Coimbatore
2006		
53	31.01.06	UGC-Academic Staff College, University of Kerala, Thiruvananthapuram
54	08.02.06	UGC-Academic Staff College, Bharathiar Univ. Coimbatore
55	16.02.06	Bioinformatics Centre Pondicherry Univ., Pondicherry
56	21.02.06	Kurinji College of Arts and Science, Trichy
57	28.02.06	NFMC, Bharathidasan Univ., Trichy
58	11.05.06	Dept of Microbiology, Bharathidasan Univ., Trichy
59	12.08.06	GRD College of Engineering, Coimbatore
60	04.09.06	Jamal Mohamed College, Trichy
61	29.09.06	Thiagarajar College of Engineering, Madurai
62	12.10.06	Srimad Andavan Arts & Science College. Trichy
63	08.11.06	The Academic Staff College, Bharathiar University, Coimbatore
64	16.12.06	National Institute of Technology, Trichy
2005		
65	18.08.05	National Institute of Technology, Trichy
66	22.09.05	Bharathiar University, Coimbatore
67	28.09.05	Dept of Zoology, Nehru Memorial College, Puthanampatti
68	14.11.05	Dept of Genomics, Madurai Kamaraj University, Madurai
69	21.12.05	Dept of Physics, St. Joseph's College, Trichy.

PhD Thesis Evaluation

1. No. of PhD Thesis evaluated: 12
2. No. of PhD Public Viva Voce Examination conducted : 10

Recent Publications

Books – 1 (2 Editions)

1. S. Parthasarathy, Essentials of Programming in C for Life Sciences, Ane Books India, New Delhi. First Edition, (2008), ISBN 978-81-8052-261-1; Second Edition, (2011), ISBN 978-93-8116-208-8.

Book Chapter (s) - 2

1. S. Parthasarathy, Bioinformatics : Application to Genomics, In Bir Bahadur, Manchikatta Venkat, Rajam Leela Sahijram and K. V. Krishnamurthy (Eds.), Plant Biology and Biotechnology, Volume II (Chap.13, pp.279-300), Springer India Pvt. Ltd, New Delhi (2015).
2. B.S. Karthikeyan, S. Parthasarathy and M A. Akbarsha, Technologies to transform toxicity testing in the 21st century: In silico toxicology and its Battery of Methods, In C. Haldar and S. Ghosh (Eds.), Animals and Alternatives in Life Science Research, (Chap.7, pp.91-105), Luminous Books, Varanasi (2015).

Research Articles in Peer Reviewed Journals

International Journals – 42

1. S Suvaitenamudhan, S Parthasarathy, (2023), In silico Studies on Potential Inhibitors of the Penicillin Binding Protein 2B (PBP2B) of the Resistant G54 and Intermediate-resistant Hungary 19A-6 and SP195 Strains of Streptococcus Pneumoniae, Letters in Drug Design & Discovery, Bentham Science Publishers, UAE, Vol 20, Issue 7, 863-880. <http://dx.doi.org/10.2174/1570180819666220422111806> (Impact Factor:1.150)
2. S Suvaitenamudhan, S Ananth, V Mariappan, VV Dhayabaran, S Parthasarathy, PS Ganesh and EM Shankar (2022), In silico evaluation of bioactive compounds of Artemisia pallens targeting the efflux protein of multi-drug resistant *Acinetobacter baumannii* (LAC-4 strain), Molecules, MDPI, 27(16) 5188, 1-17 <https://doi.org/10.3390/molecules27165188> (Impact Factor:4.927)
3. BKN Muthugobal, G Ramesh, S Parthasarathy, S Suvaitenamudhan, K Muthuvel Prasath (2022), GenNBPSeg: Online Web Server to Generate Never Born Protein Sequences Using Toeplitz Matrix Approach with Structure Analysis, Current Bioinformatics, Bentham Science Publishers, UAE, 17(7), 565-577 <http://dx.doi.org/10.2174/1574893617666220519110154> (Impact Factor: 4.850)

4. BKN Muthugobal, G Ramesh, S Parthasarathy, S Suvaitenamudhan, K Muthuvel Prasath (2020), Gray Code Representation of the Universal Genetic Code : Generation of Never Born Protein Sequences using Toeplitz Matrix Approach, BioSystems, Elsevier. 198, 104280, 1-12. <https://doi.org/10.1016/j.biosystems.2020.104280> (Impact Factor: 1.957)
5. Mary Rajathei, David, Parthasarathy, Subbiah and Selvaraj Samuel, (2020), HPREP: a comprehensive database for human proteome repeats, Journal of Integrative Bioinformatics, 17(4), 20200024. <https://doi.org/10.1515/jib-2020-0024> (Journal Citation Indicator: 0.740)
6. K Muthuvel Prasath, K Ganesan, S Parthasarathy, (2020), PredictSuperFam-PSS-3D1D: A server for predicting superfamily for the annotation of twilight zone sequences, Journal of Structural Biology. 210 (2), 107479, 1-9. <https://doi.org/10.1016/j.jsb.2020.107479> (Impact Factor: 3.234)
7. K Muthuvel Prasath, V Suresh, S Parthasarathy, (2020), PDB-2-PB.v3.0: An updated Protein Block database, Journal of Bioinformatics and Computational Biology, World Scientific, Singapore. 18 (2), 2050009, 1-11. <https://doi.org/10.1142/S0219720020500092> (Impact Factor: 1.204)
8. DM Rajathei, S Parthasarathy, S Selvaraj, (2019). Combined QSAR model and chemical similarity search for novel HMG-CoA reductase inhibitors for coronary heart disease, Current computer-aided drug design, Bentham Science Publishers, UAE, 16 (4), 473-485. <http://dx.doi.org/10.2174/1573409915666190904114247> (Impact Factor: 1.639)
9. DM Rajathei, S Parthasarathy, S Selvaraj, (2019), Identification and Analysis of long repeats of proteins at the domain level, Frontiers in Bioengineering and Biotechnology, 7, Article 250, 1-14 (8 October 2019). <https://doi.org/10.3389/fbioe.2019.00250> (Impact Factor: 5.890)
10. AA Margret, VV Dhayabaran, S Parthasarathy, S Suvaitenamudhan, (2019), Analysing the antidepressant and drug efflux competence of *Clitoria ternatea L.* as P-glycoprotein inhibitor to facilitate blood brain barrier, Acta Scientiarum. Biological Sciences. 41, e46629 <https://doi.org/10.4025/actascibiolsci.v41i1.46629> (Impact Factor: -Nil- ; 0.14 RG Journal Impact)
11. DM Rajathei, S Parthasarathy, S Selvaraj, (2019). QSAR Analysis of Multimodal Antidepressants Vortioxetine Analogs Using Physicochemical Descriptors and MLR Modeling, Current computer-aided drug design, Bentham Science Publishers, UAE, 15 (4), 294-307. <http://dx.doi.org/10.2174/1573409914666181011144810> (Impact Factor: 1.639)
12. BS Karthikeyan, S Suvaitenamudhan, MA Akbarsha, S Parthasarathy, (2018), Analysis of Species-Selectivity of Human, Mouse and Rat Cytochrome P450 1A and 2B Subfamily Enzymes using Molecular Modelling, Docking and Dynamic Simulations, Cell Biochemistry and Biophysics, Springer, USA, 76, 91-110. <https://doi.org/10.1007/s12013-017-0791-8> (Impact Factor: 2.989)

13. S Suvaithenamudhan, S Parthasarathy, (2017), Molecular Dynamics Simulations of Novel Potential Inhibitors for Penicillin Binding Protein 2B of the Resistant 5204 Strain of Streptococcus pneumoniae, Current computer-aided drug design, Bentham Science Publishers, UAE, 13 (3), 234-248. <http://dx.doi.org/10.2174/1573409913666170301120421> (Impact Factor: 1.639)
14. KM Saravanan, S Suvaithenamudhan, S Parthasarathy, S Selvaraj, (2017), Pairwise contact energy statistical potentials can help to find probability of point mutations, Proteins: Structure, Function, and Bioinformatics, John- Wiley, USA, 85 (1), 54-64. <https://doi.org/10.1002/prot.25191> (Impact Factor: 4.088)
15. BS Karthikeyan, MA Akbarsha, S Parthasarathy, (2016), Network analysis and cross species comparison of protein-protein interaction networks of human, mouse and rat cytochrome P450 proteins that degrade xenobiotics, Molecular BioSystems, UK, 12 (7), 2119-2134. <https://doi.org/10.1039/C6MB00210B> (Impact Factor: 3.395)
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