For website Curriculum Vitae : 20200128, 20201230

Prof. Dr. RM. PITCHAPPAN

M.Sc., Ph.D., F.A.Sc., F.A.M.S.,

http://www.pitchappan.com
Email: pitchappanrm@yahoo.co.uk
Mobile: +91 9443066798; +91 72006 69889Home: +0452 2569889.

RECENT HONOURS:

Life Time Achievement- by Genomic Medicine – UK:

In 2020 Dec, Prof. Pitchappan has been honoured with– Life Time Achievement for his pioneering work on Leprosy, Tuberculosis, Human population Genetics and The Genographic by the Genomic Medicine Consortium, UK. He is one of the eight from India and one of 30 from the world.

Visiting Professor – MKU – aDNA

From 2019 on, on the invitation of TNG archaeology and Madurai Kamaraj University, Pitchappan is directing the aDNA research in Tamil Nadu: Many recently excavated archaeological sites from Tamil Nadu, including Keezhadi, Athichanallur, and datee of 600-900 BC thus preponing the Sangam age. The last 2020 excavation in Konthagai/Keezhadi burial yard has yielded 30 skeletal remains and these are analysed by Prof. Kumaresan, Chairman, School of Biological sciences for aDNA by WGS techniques under the guidance of Prof. Pitchappan. A state of the art aDNA laboratory, seconf of its kind in India, funded by UGC and State Govt is being set up at MKU in the School of Biological Sciences: they work in close association with stalwarts from within and outside India.

Key note speaker - plenary - 10th world Tamil Conference, Chicago, USA

Prof. Pitchappan & Dr. Spencer Wells The Director, The Genographic project, were the key note speakers in the plenary of the 10th world Tamil Conference, Chicago, USA - 7th July2019: their lectures on 'The Genographic' and 'The Dravidian - a living civilization of yester millenia' were well received. The event organized by Federation of Tamil Societies in USA was inaugurated by the Minister for Culture, Moifa PandiaRajan, Tamil Nadu Govt and was attended by 3,000 Tamils living in USA. On 5th July Prof. Pitchappan also presented a lecture on 'Arrival of Nagarathar in Chettinad', in the Nagarathar Convention, organized by NSNA, Nagarathar Sangam of North America, at Baltimore. Following these meetings he toured Eastern parts of USA and delivered lectures at Columbus Tamil Sangam, visited National Geographic society and discussed about future research research on aDNA and Mankind in India. On return, Shanmuganathapuram Nagarathar and Nattar offered a facilitation to Justice Chokalingam and Prof. Pitchappan for participating in the World Tamil Conference and Nagarathar convention.

PAPERS:

His recent paper in 2019, defined the pre-Aryan heritage of the Brokpa, a Dardic speaking hill tribes from Dah-Hanu Leh, Ladak - Jammu & Kashmir J&K region **(web liñk)**. He has also deciphered and published the modus operandi of caste formation in India by studying his own Nattukottai Nagarathar community **(web liñk)**: it was indeed the migration of disparate male lineages arriving at a given province, amalgamated with pre-existing early settlers as a disparate marriageable clan thus forming a caste. Other communities in India also seems to follow similar pattern, that suggesting an overall template for caste formation in India.

VISITORS:

The "Virumandi" legacy, the descendants of the first Out of Africa immigrants into India, is still celebrated and many international visitors all are surprised to hear the history and culture of the community. An NGO run by Ms. Lily Bhavna, at Allahabad and Perth, Australia and Mr. Roger Perry the Boomerang player and international champion was hosted by MKU. They demonstrated the returnable boomerang in three places on three days and was also were also excited to see the iron Boomerang collections, worshiped in hundreds, in Kovilankulam temple – near Jothirmanickam village. Many are amazed to see the link between Africa and India and a Botswana-India tourism corridor is planned by philanthropic entrepreneurs from Kerala and Prof. Pitchappan is an advisor to them.

COMING YEARS:

The coming years will be very important **for him a**nd the country, in understanding the pride and antiquity of Tamils, Prof. Pitchappan feels. He also continues his research on tribal health as the Vice-President of NAWA (Nilgiri Adivasi Welfare association, Kotagiri), a 60 year old NGO established by Late Dr. Padmashree Narasimhan.

SCIENTIFIC JOURNEY:

Prof. Ramasamy Pitchappan, a Fellow of the National Academy of Medical Sciences and a Fellow of the Indian Academy of Sciences is a pioneer in Immunology of Infectious diseases, Transplantation Immunology and Human Genomics in India. He served as the Co-ordinator, School of Biological sciences (2005-6) and Professor of Immunology (1986-2006) at Madurai Kamaraj University. During this period, he also served as Director, Educational Media research centre, and organized many Science Exhibitions in collaboration with All India Radio and Science Congress. He undertook many International Collaborations with The European commission, The Welcome Trust – University of Oxford, ISERM - France, all studying Mycobacterioses. Post-retirement from MKU in 2006-13 he under took a global "The Genographic project" funded by National Geographic, IBM and Ted Wait Family foundation, USA, tracing the migration of man through the globe. This centre was one of the twelve centres around the world and only one from India dedicated for this study. Pitchappan also served as the Director - Research at Chettinad Academy of Research and Education, Chennai, from 2010 to 2016 Feb: Here he established a state of the art research facilities for Human Genomics, Microbial Genomics, Nano and Biotechnology - thus interfacing bio-medical research evaluating disease risks and environmental pollution monitoring. Pitchappan has synthesized the available evidences and proposed 'Lotus & Cactus' Model [a], invoking immunogenome in infectious disease susceptibility in tribal populations of India, and Indian Council of Medical Research has empanelled him as Adjunct Professor, attached with RMRC-ICMR, Port Blair, Andaman Nicobar Islands, India. Of late he has been invited by Govt Tamil Nadu, Dept Archaeology to be the advisor to their aDNA programme. And he has been appointed as the Honorary Visiting Professor, by his almamator, Madurai Kamaraj university to coordinate the aDNA lab and its programme with Govt. Tamil Nadu.

Pitchappan's credentials along with handful of International collaborators from Oxford, London, Cambridge, Stanford, Washington, Estonia, India and many others goes to the discovery of the genome predisposing for Leprosy (Nature Genetics 2001[b]), Immunogenetic dictum in Tuberculosis, First migration of Man to India and peopling of Tamil Nadu (Wells et al, 2001, Arunkumar et al 2012), HLA immunogenetics of HIV susceptibility in India, Population diversity and infectious disease susceptibility in TB & psoriasis, HLA and KIR polymorphisms and their implications in disease susceptibility. His seminal paper on Leprosy Genome Scan was instrumental in starting Human Genomics teaching and research programme, at Madurai Kamaraj University. While the seminal discovery published in Nature Genetics in 2001, along with Oxford Group changed the whole concept of infectious diseases from pathogen to host i.e., host is equally or more important in the clinical manifestation of the infection and "not all the infected develop the disease", as his recent review depicts [a]. His exciting and providential findings, the discovery of 'Virumandi', the descendant of the first migrant Man *Homo sapiens* to India, west of Madurai, published in PNAS 2001[d] (with Oxford Group), and the ensuing documentary Journey of Man 2002[e], National Geographic Channel, were awesome. The Story of India 2007 BBC documentaries and his SUN TV interview 2013 on "Peopling of Tamil Nadu" have been the land marks in his scientific journey, taking science to common man.

With his great conviction in science, wisdom of learning and stringent training by his mentors Dausset Nobel, 1980, Muthukkaruppan & Samuel Raj, *"not to compromise in science"*, he aims at India centric research and requisite technologies, the science very much required for developing countries - a holistic approach to study diseases and to deliver in science. His 100+ impact making papers in reputed journals and reviews and chapters in renowned books successfully employed appropriate state of the art DNA tools - Whole Genome Scans, Expression profiling, Sequencing and Computational approaches in his studies. He has participated and chaired sessions in many International conferences, UNESCO conference, Elsevier's Emerging infectious diseases, Histocompatibility workshops setting standards for HLA tissue matching services and Indian

science. He is a pioneer in the field of Transplantation matching services in India, as early as 1981 offering ~3000 renal kidney transplantation matching and ~200 Bone marrow tissue matching services from Madurai Kamaraj university, a model the country requires. He is a member and advisor of various governmental bodies, funding and regulatory authorities, reviewer of journal articles. He continues his science and science education at various levels as on date. The next leap has come in the way in the form of aDNA and is working on both ancient and modern DNAs to tell the story of India.

Prof. Dr. RM. PITCHAPPAN

Curriculum vitae:

M.Sc., Ph.D., F.A.Sc., F.A.M.S.,

http://www.pitchappan.com
Email: pitchappanrm@yahoo.co.uk
Mobile: +91 9443066798; +91 72006 69889Home: +0452 2569889.

Professional Career :

Advisor – aDNA project (MKU/TNG.Arch) 2019-
The role is to advice, establish and work on aDNA from the excavations in Tamil Nadu and nearby states, to know of the identity and culture of these Sangam people.

Visiting Professor,
School of Biological sciences, Madurai Karmaraj University

Vice-President 2018(06)-
Nilgiri Adivasi Welfare Association, Fair Glenne Annexe, Kota Hall Road, Kotagiri, Tamil Nadu, 643217
www.nawatribes.com *(NAWA is a 60 year old Tribal Welfare association, started by Padmashree Dr. Narasimhan, a physician, with 200 employees now strive hard to "Empower Tribals in Their Own Land", with Dr. Rajalakshmi, (a Physician herself) the daughter of Dr. Narasimhan now as the President of the association, has ~200 employees, catering to the needs of the tribals of Nilgiris.*

Adjunct Professor. 2017(02) – to 2019(03)
Regional Medical Research Centre (ICMR), Port Blair - 744 103,
Andaman and Nicobar Islands, INDIA Phone: Off: +91 3192 251158; Res: +91 4522 569889; Mobile: +91 9443066798

Director, Research
2010-2016(02) : Chettinad Academy of Research & Education
Rajiv Gandhi Salai (OMR Road), Kelambakkam, (Chennai) 603 103, India

Regional Director –
2006-2014 "The Genographic Project", India, Madurai Kamaraj University

Professor&HOD

1987-2006 Deparment of Immunology School of Biological Sciences, Madurai Kamaraj University, Madurai 625021 INDIA

Head & Co-Ordinator
2005-2006 School of Biological Sciences, Madurai Kamaraj University, Madurai 625021 INDIA

Elected Fellow
2002 National Academy of Medical Sciences, New Delhi
2002 Indian Academy of Sciences, Bangalore

Patent:
"A simple adaptor for preparing cell smears" Indian Patent No: 147908 of 28-02-1979.
This is a simple adapter, fitted to a laboratory table top centrifuge to concentrate & prepare smears from cells suspended in solutions. The advantage is that the preparation is restricted to a defined area for convenient scanning, concentrated and viewed at single optical plane. It is very cheap, costing one thousandth of the imported cytocentrifuges. It is an import substitution.

Expertise:
Human Genomics, Human Immunogenetics, Immunology of Infectious diseases, Transplantation immunology

International Collaborations

aDNA programme, Chicago, USA, Cambridge-UK, Denmark
The Genographic Project – NGS-IBM, Tedd Waitt Family Foundation, USA
Welcome Trust Centre for Human Genetics, Universities of Oxford,
INSERM Hospital St. Louis, University of Paris,
Commission of European Community
MRC TB Hammersmith Hospital, London
Various International Histocompatibility workshops

Honorary Positions:

Director

2019 – date	Advisor, aDNA programme, Tamil Nadu Govt, Dept.Arch. Visiting Professor, Madurai Kamaraj University
2017 – 2019	Adjunct Professor, RMRC-ICMR, Port Blair, Andaman Nicobar – 744103 - INDIA
2010-2016	Research - Chettinad Academy of Research & Education
May 2005 – 2014	Genographic India – National Geographic society-IBM- Waitt Family foundation
Nov 1998 to May 2000	Educational Media Research Centre, Madurai Kamaraj University
May-Nov 1981-1983	Science Education Centre, Madurai Kamaraj University

Consultant & Advisor
Transplantation Matching programme

2019-	Advisor, aDNA programme (MKU – Tamil Nadu Govt.)
2001 - 2009	Bone Marrow Transplant, Kothari Centre, Calcutta
1994 - 1999	TamilNad Hospital, Madras
1983 -1993	Christian Medical College, Vellore
	Bangalore, Chennai,

Career Highlights:

'Rigorous, precise and conscientious'

- Prof. Jean Dausset - 1981
- his mentor, Nobel Laureate in Physiology & Medicine, 1980, Paris, France
- the discoverer of the HLA

First to describe
Genome predisposing for Leprosy
(in collaboration with Oxford),
Immunogenetic & Functional Genomics of Tuberculosis,
HLA diversity in India
First coastal Migration of Man through India.

Research Documentaries

- 'The story of India', by Michael Wood, Maya Vision, London, 10th min Madurai Chapter appears **BBC World**, first telecast 24th Aug, 2007–2008 in USA
- **Discovery Channel**, India 16th April, 2008
- 'Journey of Man' by Spencer Wells, National Geographic Channel International / PBS Channel, first telecast: 15 Dec 2002

Invited speaker 2008 UNESCO, Paris : Conference
"The First Great Migrations of Peoples" 19 July. One of the sixteen in the world, and only one from India.

Regional Director - India
2005-Date National Geographic Society-IBM-Tedd Wait
USA @ Madurai Kamaraj Univerisyt (MKU), Madurai

Director-Research CHC

2010-Date Chettinad Academy of Research & Education
Chettinad Health City, Kelampakkam (Chennai) 603103

Director
1981-1982 Science Education Centre, Madurai Kamaraj University
1998-2000 Educational Media Research Centre, MKU

Elected Fellow
2002 National Academy of Medical Sciences, New Delhi
2002 Indian Academy of Sciences, Bangalore

Awards

- **2020** “Life Time Achievement Award” Genome Medicine Consortium, UK
- **2018** STAR award IBCN-2019 (International Business Conference of Nagarathar)
- **2015** "Life Time Achievement Award" Indian Association of Applied Microbiologists, India
- **2011** "Darwin of India" Award, American Tamil Medical AssociationWashington Greater Area, USA
- **2001** H.M.Bhatia Oration Award ICMR-IIH, Mumbai
- **1995** Investigator Award for Tuberculosis, Lancet, Washington DC, USA
- **1986** Jaycee's "Outstanding Young Person Award - Tamil Nadu"

International Collaborations
Welcome Trust Centre for Human Genetics, Universities of Oxford, Hospital St. Louis, University of Paris, Commission of European Community - MRC TB Hammersmith Hospital, London

Patent
"A simple adaptor for preparing cell smears" Indian Patent No:147908 of 28-02-1979

Service to Society – Consultant & Advisor
HLA matching in Kidney & Bone marrow transplantation: CMC Vellore 1083-199 & many hospitals in southern India; Kothari Med Foundation Kolkata

Expertise
Immunology of Infectious diseases, Human Genomics; Immunogenetics; Transplantation Immunology; Computer Data Base for Human Immunogenetics 1980s – still in use!

COLLABORATIONS – INTERNATIONAL:

I. Prof. Philippe Lagrange, INDO-INSERM PROJECT Hopital St. Luois, University of Paris, Paris

II. Prof. Juraj Ivanyi, COMMISSION OF EUROPEAN COMMUNITIES Hammersmith Hospital, University of London, LONDON, UK

III. Prof. Adrian Hill, WELCOME TRUST The Welcome Trust Centre for Human Genetics, Oxford UK

iv. Prof. Walter Bodmer & Dr. Spencer Wells, The Welcome Trust Centre for Human Genetics, Oxford UK

V. National Geographic Society, IBM, The Ted Wait Foundation – The Global Team

Publications:

107 Syama A, Arun VS, ArunKumar G, Subhadeepta R, Friez K, **Pitchappan R** & The Genographic Consortium. 2019. Origin and identity of the Brokpa of Dah-Hanu, Himalayas – an NRY-HG L1a2 (M357) legacy. ANNALS OF HUMAN BIOLOGY https://doi.org/10.1080/03014460.2019.1694700

106. Pitchappan RM 2019. "Nattukottai Nagartharkalin Cheetinadu Varugai" In Tamil. In 'Achi Vanthachu' – monthly. Madurai

105. Pitchappan RM 2018. Arrival of Nagarathar in Chettinad Expanse, In Shanmugnathapuram Kumbabishega Malar,

104. Vani S, Govindaraju S & **Pitchappan RM.** 2017 Human Leukocyte Antigen A, B and Hepatitis B infection outcome: A Meta-analysis. - World Journal of Gastroenterology (In Press)

103. **Pitchappan** RM & Arunkumar G. 2016. Evolution and Implications of Genomic Diversity on "Human Kind" in India. In 'On Human Nature' Edtd by F. Ayala & M. Tibayrenc, Elsevier Press. 111-123.

102. Sreekanth MS, Esdan Basha SK, Arun Kumar G, Govindaraju S, Pradeep Nayar N, **Pitchappan** R. 2016 Association of IL-1 尾 +3953 C and HLA-DRB1*15 with Coronary Artery and Rheumatic Heart Diseases in South India. Hum Immunol. Aug 9. pii: S0198-8859(16)30404-9. doi: 10.1016/j.humimm.2016.08.003. [Epub ahead of print].

101. **Pitchappan** RM.2016 Not all the infected develop the disease - A "Lotus and Cactus" model. Infect Genet Evol. 40:303-9. doi: 10.1016/j.meegid.2015.11.007. Epub 2015 Nov 21. PMID:26611827

100. **Pitchappan** RM. 2015 Personalized Medicine – Perspective. Chettinad Health City Medical Journal 2015; 4(1): 6 – 7

99. **Pitchappan** RM. 2015 Ancestry of South India Population. Symposium on People of India, Department of Anthropology, Delhi University pp 16 PC Joshi Edt.

98. ArunKumar G, Tatarinova TV, Duty J, Rollo D, Syama A, Arun VS, Kavitha VJ, Triska P, Greenspan B, Wells RS, **Pitchappan** R; Genographic Consortium 2015 Genome-wide signatures of male-mediated migration shaping the Indian gene pool. J Hum Genet. 2015 Sep;60(9):493-9.

97. GaneshPrasad Arunkumar[1,2], Lan-Hai Wei[3], Valampuri John Kavitha[1,4], Adhikarla Syama[1], Varatharajan Santhakumari Arun[1],Surendra Sathua[5], Raghunath Sahoo[6], R. Balakrishnan[7],Tomo Riba[8], Jharna Chakravarthy[9],Bapukan Chaudhury[10],Premanada Panda[11], Pradipta K. Das[12], Prasanna K. Nayak[13], Hui Li[3], Ramasamy Pitchappan[1,14,*] and The Genographic Consortium. 2015 A late Neolithic expansion of Y chromosomal haplogroup O2a1-M95 from east to west. Journal of Systematics and Evolution Volume 53, Issue 6, pages 546–560, November 2015

96. Elhaik E, Tatarinova T, Chebotarev D, Piras IS, Maria Calò C, De Montis A, Atzori M, Marini M, Tofanelli S, Francalacci P, Pagani L, Tyler-Smith C, Xue Y, Cucca F, Schurr TG, Gaieski JB, Melendez C, Vilar MG, Owings AC, Gómez R, Fujita R, Santos FR, Comas D, Balanovsky O, Balanovska E, Zalloua P, Soodyall H, **Pitchappan** R, Ganeshprasad A, Hammer M, Matisoo-Smith L, Wells RS; Genographic Consortium. 2014 Geographic population structure analysis of worldwide human populations infers their biogeographical origins. Nat Commun. 2014 Apr 29;5:3513. doi: 10.1038/ncomms4513.

95. Basu Mallick C, Iliescu FM, Möls M, Hill S, Tamang R, Chaubey G, Goto R, Ho SY, Gallego Romero I, Crivellaro F, Hudjashov G, Rai N, Metspalu M, Mascie-Taylor CG, **Pitchappan** R, Singh L, Mirazon-Lahr M, Thangaraj K, Villems R, Kivisild T. 2013. The light skin allele of SLC24A5 in South Asians and Europeans shares identity by descent. PLoS Genet. 2013 Nov;9(11):e1003912. doi: 10.1371/journal.pgen.1003912. Epub 2013 Nov 7.

94. Brotherton P, Haak W, Templeton J, Brandt G, Soubrier J, Jane Adler C, Richards SM, Sarkissian CD, Ganslmeier R, Friederich S, Dresely V, van Oven M, Kenyon R, Van der Hoek MB, Korlach J, Luong K, Ho SY, Quintana-Murci L, Behar DM, Meller H, Alt KW, Cooper A; Genographic Consortium, Adhikarla S, Ganesh Prasad AK, **Pitchappan** R, Varatharajan Santhakumari A, Balanovska E, Balanovsky O, Bertranpetit J, Comas D, Martínez-Cruz B, Melé M, Clarke AC, Matisoo-Smith EA, Dulik MC, Gaieski JB, Owings AC, Schurr TG, Vilar MG, Hobbs A, Soodyall H, Javed A, Parida L, Platt DE, Royyuru AK, Jin L, Li S, Kaplan ME, Merchant NC, John Mitchell R, Renfrew C, Lacerda DR, Santos FR, Soria Hernanz DF, Spencer Wells R, Swamikrishnan P, Tyler-Smith C, Paulo Vieira P, Ziegle JS. 2013 Neolithic mitochondrial haplogroup H genomes and the genetic origins of Europeans. Nat Commun. 2013;4:1764. doi: 10.1038/ncomms2656.

93. GaneshPrasad ArunKumar, David F. Soria-Hernanz, Valampuri John Kavitha, Varatharajan Santhakumari Arun, Adhikarla Syama, Kumaran Samy Ashokan, Kavandanpatti Thangaraj Gandhirajan, Koothapuli Vijayakumar, Muthuswamy Narayanan, Mariakuttikan Jayalakshmi, Janet S. Ziegle, Ajay K. Royyuru, Laxmi Parida, R. Spencer Wells, Colin Renfrew, Theodore G. Schurr, Chris Tyler Smith, Daniel E. Platt, Ramasamy **Pitchappan**.2012. Population Differentiation of Southern Indian Male Lineages Correlates with Agricultural Expansions Predating the Caste System

92. Melé M, Javed A, Pybus M, Zalloua P, Haber M, Comas D, Netea MG, Balanovsky O, Balanovska E, Jin L, Yang Y, **Pitchappan** RM, Arunkumar G, Parida L, Calafell F, Bertranpetit J.2012. Genographic Consortium. Recombination gives a new insight in the effective population size and the history of the old world human populations. Mol Biol Evol. 29:25-30. Impact factor: 5.51

91. Gallego Romero I, Basu Mallick C, Liebert A, Crivellaro F, Chaubey G, Itan Y, Metspalu M,Eaaswarkhanth M, **Pitchappan** R, Villems R, Reich D, Singh L, Thangaraj K, Thomas MG, Swallow DM,Mirazón Lahr M, Kivisild T. 2012.Herders of Indian and European cattle share their predominant allele for lactase persistence. Mol Biol Evol. 29:249-60. Impact factor: 5.51

90. Javed A, Melé M, Pybus M, Zalloua P, Haber M, Comas D, Netea MG, Balanovsky O, Balanovska E, Jin L, Yang Y, Arunkumar G, **Pitchappan** R, Bertranpetit J, Calafell F, Parida L. 2012. Genographic Consortium. Recombination networks as genetic markers in a human variation study of the Old World. Hum Genet. 131(4):601-13. Impact factor: 5.047

89. Metspalu M, Romero IG, Yunusbayev B, Chaubey G, Mallick CB, Hudjashov G, Nelis M, Mägi R,Metspalu E, Remm M, **Pitchappan** R, Singh L, Thangaraj K, Villems R, Kivisild T. 2011. Shared and unique components of human population structure and genome-wide signals of positive selection in South Asia. Am J Hum Genet. 89(6):731-44. Impact factor: 11.68

88. Wong SH, Gochhait S, Malhotra D, Pettersson FH, Teo YY, Khor CC, Rautanen A,Chapman SJ, Mills TC, Srivastava A, Rudko A, Freidin MB, Puzyrev VP, Ali S, Aggarwal S, Chopra R, Reddy BS, Garg VK, Roy S,Meisner S, Hazra SK, Saha B, Floyd S, Keating BJ, Kim C, Fairfax BP, Knight JC, Hill PC, Adegbola RA, Hakonarson H, Fine PE, **Pitchappan** RM, Bamezai RN, Hill AV,Vannberg FO. Leprosy and the adaptation of human toll-like receptor 1. PLoS Pathog. 2010 Jul 1;6:e1000979.

87. Zhadanov SI, Dulik MC, Markley M, Jennings GW, Gaieski JB, Elias G, Schurr TG;Genographic Project Consortium.Collaborators (15) Wells RS, Schurr TG, Santos FR, Quintana-Murci L, Bertranpetit J, Comas D. Tyler-Smith C, Balanovska E, Behar DM, Mitchell RJ, Jin L,Soodyall H, **Pitchappan** R, Cooper A, Matisoo- Smith L. Genetic

heritage and native identity of the Seaconke Wampanoag tribe of Massachusetts. Am J Phys Anthropol. 2010 Aug;142(4):579-89.

86. Behar DM, Blue-Smith J, Soria-Hernanz DF, Tzur S, Hadid Y, Bormans C, Moen A, Tyler-Smith Quintana-Murci L, Wells RS; The Genographic Consortium A novel 154-bp deletion in the human mitochondrial DNA control region in healthy individuals. Hum Mutat. 2008 Jul 15

85. Behar DM, Villems R, Soodyall H, Blue-Smith J, Pereira L, Metspalu E, Scozzari R,Makkan H, Tzur Comas D, Bertranpetit J, Quintana-Murci L, Tyler-Smith C, Wells RS, Rosset S;Genographic Consortium.Collaborators (19) Schurr TG, Santos FR, Quintana-Murci L,Bertranpetit J, Comas D, Tyler-Smith Balanovska E, Balanovsky O, Behar DM, Mitchell RJ,Soodyall H, **Pitchappan** R, Cooper A, Royyuru AK, Rosset S, Parida L, Blue-Smith J, Hernanz DS,Wells RS. The dawn of human matrilineal diversity. Am J Hum Genet. 2008 May;82(5):1130-40.

84. Zalloua PA, Xue Y, Khalife J, Makhoul N, Debiane L, Platt DE, Royyuru AK, Herrera RJ,Hernanz DF, Blue-Smith J, Wells RS, Comas D, Bertranpetit J, Tyler-Smith C; GenographicConsortium.Collaborators Schurr TG, Santos FR, Quintana-Murci L, Bertranpetit J, Comas D,Tyler-Smith C, Zalloua PA, Balanovska , Balanovsky O, Behar DM, Mitchell RJ, Jin L, Soodyall H,**Pitchappan** R, Cooper A, Royyuru AK, Rosset S, Blue- Smith J, Hernanz DF, Wells RS. Y-chromosomal diversity in Lebanon is structured by recent historical events. Am J Hum Genet.2008 Apr;82(4):873-82.

83. Gan RJ, Pan SL, Mustavich LF, Qin ZD, Cai XY, Qian J, Liu CW, Peng JH, Li SL, Xu JS, Jin L, Li Genographic Consortium. Pinghua population as an exception of Han Chinese's coherent genetic structure J Hum Genet. 2008;53(4):303-13.

82. Behar DM, Rosset S, Blue-Smith J, Balanovsky O, Tzur S, Comas D, Mitchell RJ,Quintana-Murci Tyler-Smith C, Wells RS; Genographic Consortium The Genographic Project public participation mitochondrial DNA database. PLoS Genet. 2007 Jun;3(6):e104. Erratum in: PLoS Genet. 2007 Sep 14;3(9):1785

81. Norman Pj, Abi-Rached L, Gendzekhadze K, Hammond Ja, Moesta Ak, Sharma D, Graef T, Mcqueen Kl, Guethlein La, Carrington Cv, Chandanayingyong D, Chang Yh, Crespí C, Saruhan-Direskeneli G, Hameed K, Kamkamidze G, Koram Ka, Layrisse Z, Matamoros N, Milà J, Park Mh, **Pitchappan** Rm, Ramdath Dd, Shiau My, Stephens Ha, Struik S, Tyan D, Verity Dh, Vaughan Rw, Davis Rw, Fraser Pa, Riley Em, Ronaghi M, Parham P 2009. Meiotic recombination generates rich diversity in NK cell receptor genes, alleles, and haplotypes. Genome Res 19(5):757-69

80. **Pitchappan** RM. 2008 Genomic Implications of Dravidian Cultural Evolution. In: The proceedings of the Great Migrations of Peoples, UNESCO, Paris, pp.

79. Rajalingam R, Du Z, Meenagh a, Luo l, Kavitha VJ, Pavithra-Arulvani R, Vidhyalakshmi A, Sharma Sk, Balazs I, Reed EF, **Pitchappan** RM, Middleton D. 2008 Distinct diversity of KIR genes in three southern Indian populations: comparison with world populations revealed a link between KIR gene content and pre-historic human migrations. Immunogenetics. 2008 Mar 28; [Epub ahead of print]

78. Jagannathan L, Chaturvedi M, Satish V, Desai A, Subbakrishna D K, Chandra Ps, Ravi V, **Pitchappan** R, Balakrishnan K and Kondaiah P, 2008. Gender differences and hla b57 in HIV-TB progression. J.AIDS – submitted.

77. Norman Pj, Abi-Rached J, Gendzekhadze K, Korbel D, M Gleimer, Rowley D, Bruno D, Carrington Cvf, Chanda Nayingyong D, Chang Yh, Crespi´ C, Direskeneli Cs, Fraser Pa, Hameed K, Kamkamidze G, Koram Ka, Layrisse Z, Matamoros N, Mila J, Park Mh, **Pitchappan** RM, Ramdath Dd, Shiau My, Stephens Haf, Struik S, Verity Dh, Vaughan Rw, Tyan D, Davis Rw, Riley Em, Ronaghi M And Parham P, 2007. Unusual selection on the KIR3DL1/S1 natural killer cell receptor in Africans. Nature Genetics 39:1092-1099.

76. Pitchapan RM, Kavitha V.J and Jayalakshmi M. HLA genomic diversity of India and its implications in HIV pandemic. Int.J.Hum.Genet. 2007.In press.

75. **Pitchappan** RM. Immunogenetics and HIV Infection, In the Proceedings of "TATA symposium on HIV", I.I.Sc., Bangalore. 2006; 20060308 – pp 229-237.

74. Tosh K, Ravikumar M, Bell J T, Meisner S, Hill A.V.S, **Pitchappan** RM Variation in MICA and MICB genes and enhanced susceptibility to paucibacillary leprosy in South India. Hum. Mol.Genet.2006; 15:1-8 .

73. Vani S, **Pitchappan** RM.. Host Genetics and Infectious Diseases in South India. Int J Hum Genet 2006, 6: 41-48.

72. Vani. S., Kamalakannan. R., Vidhyalakshmi A, Hill, A.V.S, **Pitchappan** RM. IFN-g Elispot responses to HLA-DRB1*1501 consensus M.Tb peptides in Sourashtrans of Madurai. In preparation. 2005.

71. Shankarkumar U, **Pitchappan** R, Pethaperumal S. Human leucocyte Antigen in hypertrophic cardiomyopathy patients in south India. Asian Cardiovasc Thorac Ann. 2004; 12:107-10

70. Vidhyalakshmi A, Shanmugalakshmi.S, Vani.S, Chandra.S*, Kamalakannan.R, Mathuram.G, Manoharan.K, Mukherjee.A Das.M K*, **Pitchappan** RM. Human Leucocyte Antigen (HLA) Matching and Donor Selection for Sibling Bone Marrow Transplantation in India. Current Science.2004; 87(10): 1438-1442.

69. Shankarkumar U, Sridharan B., **Pitchappan** RM. HLA diversity among Nadars, a primitive Dravidian Caste of South India. Tissue Antigens. 2003;62:542-7.

68. Shanmugalakshmi S, Dheenadhayalan V, Muthuveeralakshmi P. and **Pitchappan** RM. Th1/Th2 paradigm in human pulmonary tuberculosis in south India: M.tb recombinants and peptides-recalled IFN-g and IL-10 cytokine responses. Revised .2002.

67. Shanmugalakshmi S, Dheenadhayalan V, Muthuveeralakshmi P, Arivarignan G and **Pitchappan** RM. Mycobacterium bovis BCG scar status and HLA class II alleles influence Purified Protein Derivative- specific T-cell receptor vB expression in pulmonary tuberculosis patients from southern India. Infection & Immunity 2003; 71(8):4544-53 .

66. Shanmugalakshmi S, Balakrishnan K, Manoharan K, and **Pitchappan** RM. HLA-DRB1*, -DQB1* in Piramalai Kallars and Yadhavas, two Dravidian speaking castes of Tamil Nadu, south India. Tissue Antigens2003; 61:451-464.

65. **Pitchappan** RM. 2002. Origin of Dravidian & the Genomic Era. In the 'Proceedings of the Silver Jubilee Celebrations of the International School of Dravidian Linguistics', Thiruvananthapuram, 2002. In Press.

64. Shanmugalakshmi S, **Pitchappan** RM. Genetic Basis of Tuberculosis Susceptibility in India. Ind. J. Paediatr 2002; 69: S7-S10.

63. Kerrie T, Meisner S, Siddiqui R.M, Balakrishnan K, Ghei S, Golding M, Sengupta U, **Pitchappan** RM, Hill, A.V.S. A Region of Chromosome 20 is Linked to Leprosy Susceptibility in a South Indian Population. J Infect. Disease. 2002; 186: 1190-3

62. **Pitchappan** RM. Castes, Migration, Immunogenetics, Infectious Diseases & south India – Review - Community Genetics.2002; 5:157-161.

61. Shankarkumar U, Mahendran V. and **Pitchappan** RM. A Sensitive Micro-Platelet Elisa Technique For Screening Anti-HLA Antibodies. J.Immunoassay & immunochemist. 2002; 23:107-117.

60. Dheenadhayalan V, Shanmugalakshmi S, Vani S, Muthuveeralakshmi P, Arivarignan G, Nageswari A.D. and **Pitchappan** RM. 2001. Association of Interleukin-10 cytokine expression status with HLA non-DRB1*02 and Mycobacterium bovis BCG scar negative status in south Indian pulmonary tuberculosis patients. Infect. & Immun. 69: 5635-42.

59. Wells RS, yudlasheva, n., ruzibakiev, r., underhill, p., evseeva, i., blue-smith, j., jin, l., su, b., **pitchappan**, rm., shanmugalakshmi, s., balakrishnan, k., read, m., pearson, n., zerjal, t., webster, m., zholoshvili, i., zhirikvili, e., gambarov, s., nikbin, b., dostiev, a., akhnazarov, o., zalloua, p., tsoy, i., kitaev, m. & bodmer, w.f. 2001. The Eurasian Heartland: A continental perspective of Y-chromosome diversity. Proc. Natl. Acad. Sci. USA. 98: 10244-9.

58. Siddiqui RM, Meisner S, Kerrie T, Balakrishnan K, Ghei S, Fisher SE, Golding M, Shanker narayan N. p, Sitaraman T, Sengupta U, **Pitchappan** RM and Hill A.V.S. 2001. A Major susceptibility locus for leprosy in India Maps to Chromosomes 10p13. Nature Genetics. 27: 439-41.

57. Ravikumar M, Dheenadhayalan V, Rajaram V, Shanmugalakshmi S, Paul kumaran P, Paramasivan N, Balakrishnan K and **Pitchappan** RM. 1999. MHC class II association with Pulmonary tuberculosis in South India. Tubercle & Lung Diseases - 94 (5): 309-317.

56. **Pitchappan** RM. 1998. Diversity and dynamics of populations and disease susceptibility. In: The proceedings of the DAE symposium, PGIBMS Taramani, Chennai, India.

55. **Pitchappan** Rm and Dheenadhayalan V. 1998. Host Genetics and Tuberculosis, In'Tuberculosis Research into the 21st century' Proceeding of Indo European community Meeting on Tuberculosis, TRC-ICMR, Chennai, India. pp.9-23.

54. **Pitchappan** RM, Dheenadhayalan V, Ravikumar M and Ivanyi J. 1998. Tuberculosis susceptibility in South India. In: The 10th International Congress of Immunology=Eds. Talwar GP, Indira Nath, Ganguly NK and Rao KVS. Monduzzi Editore, Italy. 749-754.

53. Dheenadhayalan V, **Pitchappan** RM and Ivanyi J. 1998. Th1/Th2 status and LTT in pulmonary tuberculosis patients from South India. The 10th International Congress of Immunology-Eds. Talwar GP, Indira Nath, Ganguly NK and Rao KVS. Monduzzi Editore, Italy. 903-906.

52. **Pitchappan** RM, Agrewala JN, DheenadhayalanV, and Ivanyi J. 1997. MHC restriction in tuberculosis susceptibility. J.Biosciences. 22: 47-57.

51. Van Den Berg-Loonen EM, Bignon JD, Du Toit E, **Pitchappan** RM, Loon J, Singal DP, Olerup O et al. Allele and Haplotype society 11: DR2 and DR51. In: 'Genetic diversity of HLA: Functionl and Medical implications', Part I, Ed. D.Charron, EDK Publishers, Paris, France. pp 47-55.

50. Tait BD, hammond M, **Pitchappan** RM and Williams RC. 1997. Allele and Haplotype society 4: B5, B35, B53, B18, B5102, B5103, B78. In: 'Genetic diversity of HLA:

Functionla and Medical implications', Part I, Ed. D.Charron, EDK Publishers, Paris, France. pp 91-95.

49. **Pitchappan** RM, Balakrishnan K, Sudarsen V, Brahmajothi V, Mahendran V, Amalraj S, Santhakumari R, VijayakumarK, Sivalingam P and Ramasamy S. 1997. Sociobiology and HLA genetic polymorphism in Hill tribes, Irulas of Nilgiris and Malayalis of Shevroy, South India. Human Biology - 69: 59-74.

48. Balakrishnan K, Tait B and **Pitchappan** RM. 1996. New HLA alleles of HLA-B*35 in South India. Human Immunology, 47: 9

47. Agrewala J, **Pitchappan** RM and Ivanyi J. 1996 Th.Clone to mycobacterial peptide (p21-40 of 16kDa) recognise peptides presented by parental alleles. Human Immunology, 47: 94.

46. **Pitchappan** RM, Dheenadhayalan V and Ivanyi J. 1996 HLA DR2 alleles and haplotypes unique to India. Human Immunology, 47: 99.

45. Balakrishnan K, **Pitchappan** RM, Suzuki K, Sankar Kumar U, Santhakumari R and Tokunaga K. 1996. HLA affinities of Iyers, a Brahmin population of Tamil nadu, South India. Human Biology, 68: 523-37.

44. **Pitchappan** RM, Balakrishnan K, Mahendran V and Brahmajothi V. 1995. HLA and disease susceptibility in Tamil Nadu, S.India . Indian Journal of Human Genetics 1: 56-63.

Lancet's Investigator Award:

43. Brahmajothi V, **Pitchappan** RM, Paramasivan C.N, Rajaram K, Sankarkumar U and Prabhakar R. 1995. Response to chemotherapy in Pulmonary tuberculosis is correlated to host immune status. INVESTIGATOR award in the Lancet conference on tubrculosis @ Washington DC. cf. Horton, Editorial in 'The `Lancet' Vol September 23, 1995, pp 790.

42 **Pitchappan** RM and Brahmajothi V. 1995 HLA and disease susceptibility - The Indian Scenario. In Genetic Research and Education : current trends and the next fifty years, Indian Society of Genetics & Plant Breeding, New Delhi. Eds. B. Sharma et al. Vol IV :

41. Ramasamy S, Balakrishnan K and **Pitchappan** RM. 1994 Prevalence of sickle cells in Nilgiris, South India. Indian J Med Res 100: 242-5.

40. Subramanian VS, Balakrishnan K, **Pitchappan** RM, Chandrasekaran P and Damadoran C. 1994 Red cell enzymes and serum protein polymorphisms in three population groups of South India. Gene Geography 8: 169- 174.

39. **Pitchappan** RM and Brahmajothi V. 1994 Major Histo- compatibility complex, In Biology Education 10: 20-31, Wiley Eastern ltd, New Delhi.

38. **Pitchappan** RM, Amutha S, Mahendran V, Brahmajothi V, Shankar kumar U, Balakrishnan K, Shanthakumari R, Sashidhar M, Amalraj S, May manuel and Indra Raja V. 1993. Frequency of HLA antibodies in South India, J. Biosci.18:373-380.

37. **Pitchappan** RM. 1992 Biotechnology in Human Immunogenetics studies. In 'Biotechnology in India' edt PP.Reddy & A.Jyothy. 1980-85.

36. Singal DP, **Pitchappan** RM, Agarwal S, Mehra NK, Dupont B, Mankintosh P. and Tokunaga K. 1992 Distribution of HLA antigens in Asian Indians. In 'HLA 1991', Vol I, Edrs. K.Tsuji, M.Aizawa and T.Sazasuki. Oxford University press. Oxford, pp 658-63.

35. Mauff G, Suzuki K, Tokunaga K, Hauptman G, Brenden M, Hasbach* Alexeev L, Bhatia K, Brenda Coimbra H, Chiewslip P, Ivascova E, Marwick J, Okubo Y and Pitchappa RM. 1992. C4 Reference typing report In 'HLA 1991', Vol I, Edrs. K.Tsuji, M.Aizawa and T.Sazasuki. Oxford University press. Oxford, pp 954-63.

34. **Pitchappan** RM, Brahmajothi V and Mahendran V. 1992. HLA & Immune responses in pulmonary tuberculosis and rheumatoid arthritis in South India. In 'Update on allergy and applied immunology' UGC advanced immunodiagnostic training and research centre, Varanasi pp 118- 125.

33. Brahmajothi V, **Pitchappan** RM, Kakkanaiah V, Sashidar M, Rajaram K, Ramu V, Palanimurugan V, Parmasivam GN and Prabhahar R. 1991. Association of Pulmonary tuberculosis and HLA in South India. Tubercle 72: 123-132.

32. **Pitchappan** RM, Brahmajothi V, Rajaram K, Thirumalai- Kolundu Subramaniam P, Balakrishnan K and Muthuveera- Lakshmi R. 1991 Specturm of Immune reactivity to mycobacterial (BCG) antigens in healthy hospital contacts in South India. Tubercle 72: 133-139.

31. Tait BD, Naito S, Boyle A, Zachary A, Garrido F, Maeda H, Dupont E, Holdsworth R, Bias **Pitchappan** RM And Miller S. 1992 Antigen Society 105 (B51, Bw52, B35, Bw53, B18) In 'HLA 1991', Vol I, Edrs. K.Tsuji, M.Aizawa and T.Sazasuki. Oxford University press. Oxford, pp 297-304.

30. Suzuki K, Miozoi Y, Iwata M, Nishimukai H, Hammond Mg, O'neil Gj, Alexeev P, **Pitchappan** RM, Gorodezky C And Ferreira E 1992. Complement polymorphism in seven population of non-European Caucasoids and one admixed population of Mexican Mestizos. In 'HLA 1991', Vol I, Edrs. K.Tsuji, M.Aizawa and T.Sazasuki. Oxford University press. Oxford, pp 963-968.

29. **Pitchappan** RM. 1990 REVIEW Genetics of Tuberculosis susceptibility. Trop.Med.Parasitol. 51:355-356.

28. **Pitchappan** RM, Koteeswaran A, Kakkaiah Vn, Manickasundari M, Rajaram V, Muthuveeralakshmi P, Mahendran V and Brahmajothibai V. 1989 HLA Bw57 and DR7 with Psoriasis vulgaris in South India. Tissue Antigens. 34: 2: 133-139.

27. **Pitchappan** RM and Arulraj N. 1989 A versatile computer data-base for Human Immunogenetic studies incorporating clinical and population data Ind. J. Phys. Anthrop. & Hum. Gen (Lucknow) 15: 81-92.

26. **Pitchappan** RM, Kakkaiah VN, Manickasundari M, Rajaram V And Koteeswaran A. 1989 Susceptibility of Major groups of Tamil Nadu to diseases: 1. Psoriasis vulgaris Ind. J. Genetics, 68: 2: 75-92.

25. **Pitchappan** RM. 1988 REVIEW Founder effects explain the distribution of the HLA A1-B17 but not the absence of the A1-B8 haplotypes in India. J. Genetics. 67: 101-111.

24. Selvaraj P. and **Pitchappan** RM. 1988. Post hatching development of the immune system of the pigeon, Columba livia. Dev. Com. Immunol. 12: 879-884.

23. Manickasundari M and **Pitchappan** RM. 1988 Thymus - an effector organ in the lizard Calotes versicolor Ind. J. Exp. Biol. 26: 225-227.

22. Manickasundari M and **Pitchappan** RM. 1988 Structural, functional relationship of thymus derived cells of the lizard, Calotes versicolor. Dev. Com. Immunol. 12: 603-610.

21. Rajasekar R, Kakkanaiah VN and **Pitchappan** RM. 1987 HLA antigens in India II. Caste groups of Tamil Nadu, Tissue Antigens 30: 113-118.

20. Manickasundari M and **Pitchappan** RM. 1987 Characteristics of heterologous anti- lizard [Calotes versicolor] thymocyte serum which identify the functions of thymic lineage. Dev. Comp. Immunol 11: 605-612.

19. **Pitchappan** RM. 1986, HLA & India, In: "HLA in Asia & Oceania", Edts: A.Aizawa, T. Natori, A.Wakisaka & Y. Konoeda, Hokkaido University Press, Sapporo, Japan. 1986, pp 535-538.

18. **Pitchappan** RM, Kakkanaiah VN, Manickasundari M, Brahmajothi bai V, Mahendran V, Chandramohan R, Sivasakthi A, Amalraj S, Subash M and Rajasekar R. 1986 HLA in Sourashtrans of Madurai. In: "HLA in Asia & Oceania", Edts: A.Aizawa, T. Natori, A.Wakisaka & Y. Konoeda, Hokkaido University Press, Sapporo,Japan.1986,pp539-542.

17. **Pitchappan** RM and Omori K. 1986 Cw2,Cw5,Cw7 & Cw8. In: "HLA in Asia & Oceania:, Eds: A.Aizawa, T Natori, A.Wakisaka & Y. Konoeda, Hokkaido University Press, Sapporo, Japan. 1986, pp 56-61.

16. Mehra nk, Taneja V, Chaudhuri TK, Kailash S, Bin AJ, Chang SX, Hawkins BR. & **Pitchappan** RM. 1986 Pulmonary Tuberculosis. In: "HLA in Asia & Oceania", Edts: A.Aizawa, T. Natori, A.Wakisaka & Y. Konoeda, Hokkaido University Press, Sapporo, Japan. 1986, pp 374-379.

15. Sazasuki T, Matsushita S, Nakamizo Y, Muto M, Matsumotto H, M Suzuki K, Wang TH, Contractor Nm, **Pitchappan** RM, Charoewongse P, Linagao Al, Seghal S, Singh T, Mehra Nk, Sun Y-P and Song F- G.1986. HLA and psoriasis in Asia populations. In: "HLA in Asia & Oceania", Edts: A.Aizawa, T. Natori, A.Wakisaka & Y. Konoeda, Hokkaido University Press, Sapporo, Japan. 1986, pp 349-353.

14. Selvaraj P. & **Pitchappan** RM. 1985. Effect of oestradiol dipropionate on the immune system of the pigeon Columba livia. Dev.Comp. Immunol. 9:669-679.

13. **Pitchappan** RM. 1984 REVIEW : "HLA, Biological Anthropoplogy & India", Immunohaematology Bulletin [ICMR] 15: 1-11.

12. Manickasundari M, Selvaraj P. and **Pitchappan** RM. 1984 Studies on T-cells of the lizard, Calotes versicolor: Adherent and Non-adherent populations of the spleen. Dev. Comp. Immunol. 8: 367-374.

11. **Pitchappan** RM, Kakkanaiah VN, Rajasekar R, Arulraj N. and Muthukarruppan VR. 1984 HLA antigens in South India. I. Major groups of Tamil Nadu. Tissue Antigens 24: 190-196.

10. Selvaraj P. and **Pitchappan** RM. 1980. Ontogeny of Immune system and function in Pigeon. In the proceedings of DAE symposium on Cellular and Humoral mechanisms of Immune response, Dec. 1980. Madurai, Dept. Atomic Energy, Govt. of India, 1982.

9. **Pitchappan** RM and Rajeswari T.K. 1980 Occurance of Calotes erthrocytes and thymocyte antigenic determinants of frog, skink and rat lymphoid cells. In the proceedings of DAE symposium on Cellular and Humoral mechanisms of Immune response, Dec.1980, Madurai, Department of Atomic Energy, Government of India,1982.

8. **Pitchappan** RM. 1979 REVIEW "On the phylogeny of splenic structure and function". Dev. Comp. immunol. 4:395-416.

7. Muthukkaruppan VR and **Pitchappan** RM 1979 'Animal Development - loboratory manual', CoSIP-ULP programme, School of Biological Sciences, Madurai Kamaraj University

6. **Pitchappan** RM and Muthukkaruppan VR. 1977 In-vitro properties of heterologous anti-lizard thymocyte serum. Proc. Indian Acad. Sci. 85 [B]: 1-12.

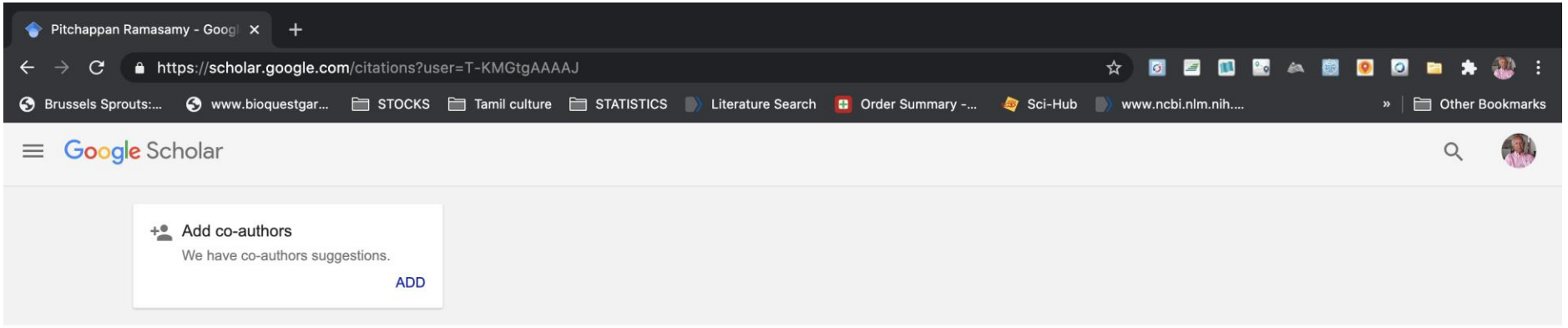
5. **Pitchappan** RM and Muthukkaruppan VR. 1977 Role of thymus in the immune response to sheep erythrocytes in the lizards, Calotes versicolor. Proc. Indian Acad. Sci. 85 [B]: 25-33

4. **Pitchappan** RM and Muthukkaruppan VR. 1977 Thymic dependednt lymphoid region in the spleen of the lizard, Calotes versicolor. J. Exp. Zool. 199: 177-188.

3. **Pitchappan** RM and Muthukkaruppan VR. 1977 Analysis of the development of the lizard, Calotes versiscolor: II. Histo-genesis of the thymus. Dev. Comp. Immunol. 1:217-230.

2. **Pitchappan** RM and Muthukkaruppan VR. 1976 Procedure for thymectomy in the lizard Calotes versicolor. Proc. Ind. Acad. Sci., 84 [B]: 42-49.

1. Muthukkaruppan VR, **Pitchappan** RM and Ramila G. 1976 Thymic dependence and regulation of the immune response to sheep erthrocytes in the lizard. In: Phylogeny of thymus and bone marrow bursa cells. R.K. Wright and E.L. Cooper Eds. Elsevier North Holland Biomedical Press, Amsterdam. The Netherlands. pp. 185-193



Pitchappan Ramasamy

FOLLOW

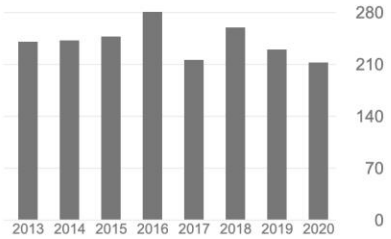
Director Research, Chettinad University - Chennai
Verified email at chettinaduniversity.com - Homepage

Immunology infectious diseases immunogenetics human genomics transplantation immunology

TITLE	CITED BY	YEAR
The Eurasian heartland: a continental perspective on Y-chromosome diversity RS Wells, N Yuldasheva, R Ruzibakiev, PA Underhill, I Evseeva, ... Proceedings of the National Academy of Sciences 98 (18), 10244-10249	559	2001
A major susceptibility locus for leprosy in India maps to chromosome 10p13 MR Siddiqui, S Meisner, K Tosh, K Balakrishnan, S Ghei, SE Fisher, ... Nature genetics 27 (4), 439-441	242	2001
Unusual selection on the KIR3DL1/S1 natural killer cell receptor in Africans PJ Norman, L Abi-Rached, K Gendzekhadze, D Korbel, M Gleimer, ... Nature genetics 39 (9), 1092-1099	228	2007
Neolithic mitochondrial haplogroup H genomes and the genetic origins of Europeans P Brotherton, W Haak, J Templeton, G Brandt, J Soubrier, CJ Adler, ... Nature communications 4 (1), 1-11	219	2013
Association of pulmonary tuberculosis and HLA in south India V Brahmajothi, RM Pitchappan, VN Kakkanaiah, M Sashidhar, K Rajaram, ... Tubercle 72 (2), 123-132	212	1991
Associations of HLA-DRB1, DQB1 and DPB1 alleles with pulmonary tuberculosis in south	183	1999

Cited by VIEW ALL

	All	Since 2015
Citations	3760	1446
h-index	29	21
i10-index	46	28



Co-authors EDIT

No co-authors

END OF THE CV 20201231