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Professor Emeritus

Department of Immunology, HLA Bldg,
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(to be updated)

ACHIEVEMENTS – RAMASAMY PITCHAPPAN

LATEST:

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

Research Documentaries:

‘The story of India’ Part I, by Michael Wood, Maya Vision, London,
BBC world, 24th Aug, 2007 – 2008 in USA
Discovery Channel, India 16th April, 2008, 8 pm due

‘Journey of Man’ by Spencer Wells, National Geographic Channel International / PBS Channel,
first telecast: 15 Dec 2002, Many times thereafter

HIGHLIGHTS:

Director: 1981 **Science Education Centre,** Madurai Kamaraj University,
1998-2000 **Educational Media Research Centre,** MKU,
2005-Date **Genographic – India project, National Geographic Society USA-MKU**

Chairman: 2005-06 **Institutional Ethical Committee,** MKU
2005-06 **Board of Research Studies,** MKU
2005-06 **School of Biological Sciences,** MKU

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

Awards: 1986 Jaycee’s **“Outstanding Young Person Award Tamil Nadu”**
1995 **Lancet’s Investigator Award** for Tuberculosis, Washington DC, USA
2001 **H.M.Bhatia Oration Award** ICMR-IIH, Mumbai

International Collaborations

*Welcome Trust Centre for Human Genetics, Universities of Oxford,
Hospital St. Louis, University of Paris, 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 for CMC Vellore, Kothari Calcutta etc.,

A pioneer in India: *Immunology of Infectious diseases, Immunogenetics, Human Genomics &
Transplantation Immunology*

First to describe *Genome predisposing leprosy, Genetic susceptibility of TB, HLA diversity in India,
HLA in Bone marrow transplantation in India.*

‘Rigorous, precise and conscientious’

his mentor, Nobel Laureate, 1980. Prof. Jean Dausset, Paris, France, the discoverer of the HLA.,

CURRICULUM VITAE

1. Name in full **RAMASAMY PITCHAPPAN**
2. Date & Place of birth 02 April 1946,
Shanmuganathapuram, Tamil Nadu, INDIA
3. Present Position **Professor Emeritus &
Regional Director – ‘Genographic’**
Department of Immunology
School of Biological Sciences
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K.Pudur, MADURAI - 625021, INDIA
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5. Area of specialization Immunology of Infectious Diseases - Human
Human Immunogenetics
Human Genomics, Transplantation Immunology
6. Academic Qualification:
1968 B.Sc., Zoology Madras University, Alagappa College
Karaikudi, India.
1970 M.Sc., Zoology Madurai University, Thiagarajar College Madurai, India.
1975 Ph.D., Immunology Madurai Kamaraj University, Madurai, India

7. **Honorary Positions:**

Regional Director May 2005 – to date Genographic India – National Geographic society-IBM-Waite Family foundation

Member 2007 – date Sectional Committee, Indian Academy of Sciences

Director Nov 1998 to May 2000 Educational Media Research Centre,
Madurai Kamaraj University

May-Nov 1981 Science Education Centre,
Madurai Kamaraj University

Member, Institutional Ethical Committee, MKU 2006- to date

Chairman, Board of Research Studies, MKU 2005-2006

Chairman, Institutional Ethical Committee, MKU 2005-2006

Consultant & Advisor – Transplantation Matching programme

1983-1993 Christian Medical College, Vellore
1994 - 1999 TamilNad Hospital, Madras
2001- to date Bone Marrow Transplant, Kothari Centre, Calcutta

Secretary Jan 1989 **76th Indian Science Congress**
Exhibition, Madurai Kamaraj University

1985 MKU-All India Radio, Science Exhibition
1986 MKU-All India Radio, Science Exhibition
1987 MKU-All India Radio, Science Exhibition

1987 to 1990 INSA-IUIS Committee for Immunology
1990 to 1992 Indian society of Human Genetics
1979 to 1982 Joint Secretary, Indian Immunology Society

Member 1981-83 ICMR Task force of HLA

Organizer 1983 Quality Control Meet on HLA
Indian Council of Medical Research
1996 Quality Control Meet on HLA
Madurai Kamaraj University
2001 Quality Control Meet for Transplant Matching Centres
Madurai Kamaraj University

Executive committee Member

1998-2000 Indian Society of Cell Biology
1995 to 1998 Indian Immunology Society
1982 to 1987 ICMR Task Force on HLA diseases.
1985 to 1987 INSA-IUIS Committee for Immunology

Editorial Board

1995 to 2000 Indian Journal of Human Genetics
(J. of Indian Society of Human Genetics)
1995 to 2000 Journal of Genetics (Hyderabad)

Member, Management Committee, College Development Council, Madura College
2005-6

Member, Management Committee, College Development Council, Yadhava College
2006-

8. Employment History

Year	Designation	Place	Courses taught
1970-71	Demonstrator	Alagappa college	B.Sc, Zoology
1971-76	Research Scholar	Madurai University School of Biological Sciences	M.Sc, Biology Summer Institutes
16-8-76 to 10-4-79	Lecturer in Immunology	Madurai Kamaraj University School of Biological Sciences Department of Immunology	M.Sc., Biology M.Phil, Ph.D.,
11-4-79 to 22-1-87	Reader in Immunology	Madurai Kamaraj University do	M.Sc.,Biology M.Phil, Ph.D.,
23-1-87	Professor of Immunology	Madurai Kamaraj University do	M.Sc.,Biology M.Phil, Ph.D.,
3-8-95 31-3-97	Professor & Head	Madurai Kamaraj University do	M.Sc.,Ph.D Biology & Bio-technology Immunology
1-4-1997 30-6-2005	Senior Professor & Head	Madurai Kamaraj University do	M.Sc., Int.Biology, Genomics Ph.D., Immunology, Human Genomics
1-7-2005 - 31-06-2006	Chairman	School of Biological Sciences Madurai Kamaraj University	do
01-07-2006 date	Regional Director & Principal Investigator The Genographic project Funded by National Geographic Society-IBM-Waitt Family Foundation at Madurai Kamaraj University, Madurai		Ph.D students,
	Professor Emeritus, Immunology School of Biological Sciences Madurai Kamaraj University		

11: International Collaborations

- | | | | |
|-------|-----------|--|------------------|
| i. | 1984-86 | IV Asia Oceania Histocompatibility workshop & conference, Japan | |
| ii. | 1987-91 | XI International Histocompatibility Workshop Conference, Japan | |
| iii. | 1993-96 | INDO-EC "HLA restriction of immune responses in tuberculosis susceptibility With MRC-TB Unit, RPMS, Hammersmith Hospital LONDON, UK | ECU 1,20,000/- |
| iv. | 1993-96 | XII International Histocompatibility workshop & conference, Paris, France | |
| v. | 1994-95 | "Immunogenetic basis of susceptibility to leprosy" John Radcliffe Hospital, Oxford University, Oxford, UK | Rs.1,14,000/- |
| vi. | 1995-99 | "Genetic and acquired resistance to Malaria and myco- bacteria diseases" John Radcliffe Hospital, & Wellcome Trust Centre for Human Genetics, University of Oxford, Oxford, UK | GBP 30,000/- |
| vii. | 1998-01 | 13th International Histocompatibility Workshop & conference, Seattle, USA, Sir Walter Bodmer, Wellcome Trust Centre for Human Genetics, Oxford | |
| viii. | 2000-04 | 'Molecular Immunological analysis of DRB1*1501 association with susceptibility to tuberculosis in south India', The Wellcome Trust, London, UK., Collaborative initiative grant: | GBP 1,38,868/- |
| ix. | 2002-2005 | Indo French ICMR-INSERM collaboration | Rs. 28,00,000/- |
| x. | 2005-2010 | National Geographic Society-IBM-The Waitt Foundation, 'Genographic' | US\$ 10,00,000/- |

13. Patents: *"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.

14: Affiliation to Professional Societies

- i. Member, Association of Microbiologists, USA (2000-date).
- ii. Member, The Australasian and South-East Asian Tissue typing Assn. Inc. 1995- date.
- iii. Life Member, Indian Immunology Society.
(Joint Secretary, Indian Immunology Society, 1980-82)
(Executive committee member - 1996-98).
- iv. Life Member, Indian Society of Human Genetics
(Joint Secretary 1987-89, Secretary 1990-92).
- v. Life Member, Indian Society of Cell Biology
(Executive committee member - 1999-date).
- vi. Member, Indian Society of Bio-Medical Scientists.
- vii. Member, New York Academy of Sciences, U.S.A (1995-97).
- viii. Elected Fellow, Indian Academy of Sciences 2002
- ix. Elected Fellow, National Academy of Medical Sciences (India) 2002

15. Exchange Scientist / Visiting Professor/ , – International Congresses:

1981 Dec.1982 Feb	Unit of Immunogenetics Human Transplantation, Hospital St. Louis, Paris, France, <i>Director Prof.J.Dausset, Nobel Laureate, 1980.</i>
1983 May-July	National Eye Institute & NIAID, NIH, Bethesda, U.S.A
1986 Feb-March	INSA Exchange scientist - College de France, Unit of Immunogenetics U93 INSERM, Paris, <i>Director Prof. J. Dausset, Nobel Laureate, 1980.</i>
1989 March-May	Human Polymorphism Study Centre (C.E.P.H) 27 rue Juliette Dodu 75010, Paris, France <i>Director Prof J Dausset, Nobel Laureate, 1980.</i>
1991 Nov	Visiting scientist @ MRC- TB unit, London & Oxford, UK
1993	INSA-Royal Society of London Exchange scientist, UK
1995 Oct-Nov	Commission of European Communities - University of London, Oxford & USA
1996 June- July	Commission of European Communities - University of Oxford, & London, UK Institute of Pasteur, Paris, France
1998 June	University of Oxford, U.K. Wellcome Trust Centre for Human Genetics,
1999 July	University of Oxford, UK, Wellcome Trust Centre for Human Genetics,
2000 May-June	University of Oxford, UK. John Radcliffe Hospital.
2001 May-June	University of Oxford, UK. John Radcliffe Hospital & Wellcome Trust Centre for Human Genetics, Hopital St. Louis, Paris, France.
2002 May-June	University of Nebraska, Lincoln, Emory University, Atlanta, Centre for Disease Control, Atlanta, Food & Drug Administration, Washington, USA University of Oxford, UK, Wellcome Trust Centre for Human Genetics
2003 June-July	Hopital St. Louis, Paris, University of Oxford, UK, Institute of Vaccinology, Churchill Hospital, Oxford
2004 July	University of Oxford, UK, Institute of Vaccinology, Churchill Hospital, Oxford
2005 April	National Geographic Head Quarters, Washington, DC – Meeting & Inauguration 'Genographic' project (ref ; www.nationalgeographic.com/genographic)
2006 May	Genographic Annual Meeting: Cape Town, South Africa
2006 July	International Congress of Human Genetics, Brisbane, Australia QIMR, Brisbane, Australia La Trobe University, Melbourne, Australia Walter & Eliza Hall Inst. Med Res. Melbourne, Australia University Adelaide, Adelaide, Australia
2007 Aug	Genographic Annual Meeting: Shanghai, China

16: Industry Consultancy Services:

Transplantation matching services:

Dr. RM. Pitchappan has offered transplantation matching for 700+ End stage renal failure patients (ESRF) and their donors. He has also offered 200+ Bone marrow transplantation matching for leukemic and other patients awaiting a transplant. Of late, DNA typing of HLA by SSP method is performed to select bone marrow transplant donors. Dr. Pitchappan has trained dozens of clinicians and paramedical workers for HLA tissue matching for Organ Transplantation. Reputed clinics such as CMC Vellore, Chennai hospitals, Hospitals from Bangalore, Kothari Medical centre, Kolkota and many other centres have been using our facility

Pitchappan established the 'Tissue Matching laboratory' in Tamil Nad Hospital, Chennai., under the Industry Consultancy programme of the University and also offers state of the art DNA-SSP typing for BMT (bone marrow transplantation) matching in India.

LIST OF PUBLICATIONS OF RAMASAMY PITCHAPPAN

Patent: "A simple adaptor for preparing cell smears"

Indian Patent No: 147908 of 28-02-1979.

Research Documentaries:

'The story of India' Part I, by Michael Wood,
Maya Vision, London, First telecast in BBC2 and BBC world, on 24th Aug 2007
Yet to be telecast in USA

'Journey of Man' by Spencer Wells,
National Geographic Channel International / PBS Channel, first telecast: 15 Dec 2002

Research papers:

81. 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]
80. 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.
79. 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.**
78. PITCHAPPAN RM, KAVITHA V.J and JAYALAKSHMI M. 2007. HLA genomic diversity of India and its implications in HIV pandemic. **Int.J.Hum.Genet.** In press
76. PITCHAPPAN, RM. 2006 IMMUNOGENETICS AND HIV INFECTION, In the Proceedings of "TATA symposium on HIV", I.I.Sc., Bangalore. 20060308 – pp 229-237.
75. TOSH K, RAVIKUMAR M, BELL J T, MEISNER S, HILL A.V.S, PITCHAPPAN RM 2006 Variation in MICA and MICB genes and enhanced susceptibility to paucibacillary leprosy in South India. **Hum. Mol. Genet. 15:1-8 .**
74. VANI S, PITCHAPPAN RM. 2006. Host Genetics and Infectious Diseases in South India. **Int J Hum Genet 6: 41-48.**
73. VANI. S., KAMALAKANNAN. R., VIDHYALAKSHMI, A., HILL, A.V.S., PITCHAPPAN, RM. 2005

- IFN-g Elispot responses to HLA-DRB1*1501 consensus M.Tb peptides in Sourashtrans of Madurai. In preparation.
72. SHANKARKUMAR, U., PITCHAPPAN, R., PETHAPERUMAL, S. 2004 Human leucocyte Antigen in hypertrophic cardiomyopathy patients in south India. *Asian Cardiovasc Thorac Ann.* 12:107-10
 71. VIDHYALAKSHMI A, SHANMUGALAKSHMI.S, VANI.S, CHANDRA.S*, KAMALAKANNAN.R, MATHURAM.G, MANOHARAN.K, MUKHERJEE.A DAS.M K*, PITCHAPPAN RM 2004 Human Leucocyte Antigen (HLA) Matching and Donor Selection for Sibling Bone Marrow Transplantation in India. *Current Science.* 87(10): 1438-1442.
 70. SHANKARKUMAR, U., SRIDHARAN, B., PITCHAPPAN, RM. 2003. HLA diversity among Nadars, a primitive Dravidian Caste of South India. *Tissue Antigens* 62:542-7.
 68. SHANMUGALAKSHMI, S., DHEENADHAYALAN, V., MUTHUVEERALAKSHMI, P. and PITCHAPPAN, RM. 2002. Th1/Th2 paradigm in human pulmonary tuberculosis in south India: M.tb recombinants and peptides-recalled IFN- γ and IL-10 cytokine responses. Revised
 67. SHANMUGALAKSHMI, S., DHEENADHAYALAN, V., MUTHUVEERALAKSHMI, P., ARIVARIGNAN, G. and PITCHAPPAN, RM. 2003. *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* 71(8):4544-53 .
 66. SHANMUGALAKSHMI, S., BALAKRISHNAN, K., MANOHARAN, K., and PITCHAPPAN, RM. 2003. HLA-DRB1*, -DQB1* in Piramalai Kallars and Yadhavas, two Dravidian speaking castes of Tamil Nadu, south India. *Tissue Antigens* 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. 2002 Genetic Basis of Tuberculosis Susceptibility in India. *Ind. J. Paediatr* 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. 2002. A Region of Chromosome 20 is Linked to Leprosy Susceptibility in a South Indian Population. *J. Infect. Disease.* 186: 1190-3.
 62. PITCHAPPAN, RM. 2002 Castes, Migration, Immunogenetics, Infectious Diseases & south India – Review - *Community Genetics.*5:157-161.
 61. SHANKARKUMAR, U., MAHENDRAN, V. AND PITCHAPPAN, RM. 2002 A Sensitive Micro-Platelet Elisa Technique For Screening Anti-HLA Antibodies. *J.Immunoassay & immunochemist.* 23:107-117.
 60. DHEENADHAYALAN, V., SHANMUGALAKSHMI, S., VANI, S., MUTHUVEERALAKSHMI, P., ARIVARIGNAN, G., NAGESWARI, A.D. & 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, R.S., 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 R, M., MEISNER, S., KERRIE, T., BALAKRISHNAN, K., GHEI, S., FISHER, S.E., 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, SHANMUGA LAKSHMI 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 & 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 & 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., DHEENADHAYALAN, V. 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. 1997. 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 RC WILLIAMS 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., VIJAYAKUMAR, K., 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.

43. ***Lancet's Investigator Award:***
 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 tuberculosis @ Washington DC. cf. Horton, Editorial in 'The 'Lancet' Vol 346: September 23, 1995, pp 790.*
42. RM. PITCHAPPAN AND V. BRAHMAJOTHI 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, V.S., 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. & 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' ed PP.Reddy & A.Jyothy. 1980-85.
36. SINGAL, D.P., PITCHAPPAN, RM., AGARWAL, S., MEHRA, N.K., DUPONT, B., MANKINTOSH, P. & TOKUNAGA, K. 1992 Distribution of HLA antigens in Asian Indians. In 'HLA 1991', Vol I, Edrs. K.Tsuji, M.Aizawa and T.Szasuki. Oxford University press. Oxford, pp 658-63.
35. MAUFF, G., SUZUKI,K., TOKUNAGA, K., HAUPTMAN, G., BRENDEN, M., HASBACH* L.ALEXEEV, 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.Szasuki. Oxford University press. Oxford, pp 954-63.
34. PITCHAPPAN, RM., BRAHMAJOTHI, V. & 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 & 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. & 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, B.D., NAITO, S., BOYLE, A., ZACHARY, A., GARRIDO, F., MAEDA, H., DUPONT, E., HOLDSWORTH, R., BIAS, W., PITCHAPPAN, RM. & MILLER, S. 1992 Antigen Society 105 (B51, Bw52, B35, Bw53, B18) In 'HLA 1991', Vol I, Edrs. K.Tsuji, M.Aizawa and T.Szasuki. Oxford University press. Oxford, pp 297-304.

30. SUZUKI, K., MIOZOI, Y., IWATA, M., NISHIMUKAI, H., HAMMOND, M.G., O'NEIL, G.J., 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.Szaszaki. 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., KAKKAI AH, VN., MANICKASUNDARI, M., RAJARAM, V., MUTHUVEERALAKSHMI, P. MAHENDRAN, V. & BRAHMAJOTHIBAI, V. 1989 HLA Bw57 and DR7 with Psoriasis vulgaris in South India. Tissue Antigens. 34: 2: 133-139.
27. PITCHAPPAN, RM. & ARULRAJ, N. 1989 A versatile computer data-base for Human Immunogenetic studies incorporating clinical and population data Ind. J. Phys. Anthropol. & Hum. Gen (Lucknow) 15: 81-92.
26. PITCHAPPAN, RM., KAKKAI AH, VN., MANICKASUNDARI, M., RAJARAM, V. & 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. & PITCHAPPAN, RM. 1988. Post hatching development of the immune system of the pigeon, Columba livia. Dev. Com. Immunol. 12: 879-884.
23. MANICKASUNDARI, M. & PITCHAPPAN, RM. 1988 Thymus - an effector organ in the lizard Calotes versicolor Ind. J. Exp. Biol. 26: 225-227.
22. MANICKASUNDARI, M. & PITCHAPPAN, RM. 1988 Structural, functional relationship of thymus derived cells of the lizard, Calotes versicolor. Dev. Com. Immunol. 12: 603-610.
21. RAJASEKAR, R., KAKKANAI AH, V.N. & PITCHAPPAN, RM. 1987 HLA antigens in India II. Caste groups of Tamil Nadu, Tissue Antigens 30: 113-118.
20. MANICKASUNDARI, M. & 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., KAKKANAI AH, V.N., MANICKASUNDARI, M., BRAHMAJOTHIBAI, V., MAHENDRAN, V., CHANDRAMOHAN, R., SIVASAKTHI, A., AMALRAJ, S., SUBASH, M. & 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, pp 539-542.
17. PITCHAPPAN, RM. & 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, N.K., TANEJA, V., CHAUDHURI, T.K., KAILASH. S., BIN, A.J., CHANG, S.X., HAWKINS,B.R. & 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, T.H., CONTRACTOR, N.M, PITCHAPPAN, RM., CHAROEWONGSE, P., LINAGAO, A.L., SEGHAL, S., SINGH, T., MEHRA, NK., SUN, Y-P. & 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 Anthropology & India", Immunohaematology Bulletin [ICMR] 15: 1-11.
12. MANICKASUNDARI, M., SELVARAJ, P. & 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., KAKKANAI AH, V.N, RAJASEKAR, R., ARULRAJ, N. & MUTHUKARRUPPAN, VR. 1984 HLA antigens in South India. I. Major groups of Tamil Nadu. Tissue Antigens 24: 190-196.
10. SELVARAJ, P. & 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. & RAJESWARI, T.K. 1980 Occurance of Calotes erythrocytes 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 & RM. PITCHAPPAN, 1979 'Animal Development - laboratory manual', CoSIP-ULP programme, School of Biological Sciences, Madurai Kamaraj University
6. PITCHAPPAN, RM. & MUTHUKKARUPPAN, VR. 1977 In-vitro properties of heterologous anti-lizard thymocyte serum. Proc. Indian Acad. Sci. 85 [B]: 1-12.
5. PITCHAPPAN, RM. & 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. & MUTHUKKARUPPAN, VR. 1977 Thymic dependednt lymphoid region in the spleen of the lizard, Calotes versicolor. J. Exp. Zool. 199: 177-188.
3. PITCHAPPAN, RM. & MUTHUKKARUPPAN, VR. 1977 Analysis of the development of the lizard, Calotes versicolor: II. Histo-genesis of the thymus. Dev. Comp. Immunol. 1:217-230.
2. PITCHAPPAN, RM. & MUTHUKKARUPPAN, VR. 1976 Procedure for thymectomy in the lizard Calotes versicolor. Proc. Ind. Acad. Sci., 84 [B]: 42-49.
1. MUTHUKKARUPPAN, VR., PITCHAPPAN, RM., & RAMILA, G. 1976 Thymic dependence and regulation of the immune response to sheep erythrocytes 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

CITATIONS OF IMPORTANT PAPERS - 2008, Jan

(Google Scholar Search)

RM. PITCHAPPAN

[The Eurasian Heartland: A continental perspective on Y-chromosome diversity - all 7 versions »](#)
... , L Jin, B Su, Ri **Pitchappan**, S Shanmugalakshmi, K ... - Proceedings of the National Academy of Sciences, 2001 - National Acad Sciences The nonrecombining portion of the human Y chromosome has proven to be a valuable tool for the study of population history. The maintenance of extended haplotypes characteristic of particular geographic regions, despite extensive ...
[Cited by 133](#) - [Related Articles](#) - [Web Search](#)

[A major susceptibility locus for leprosy in India maps to chromosome 10p13 - all 6 versions »](#)
... NPS Narayan, T Sitaraman, U Sengupta, R **Pitchappan** ... - Nature Genetics, 2001 - nature.com M. leprae was the first pathogenic bacteria of humans to be identified and remains one of the few that cannot be cultured in vitro. It causes leprosy, a disease long recognized to occur in families 2, 3 . The more common form, ...
[Cited by 84](#) - [Related Articles](#) - [Web Search](#)

Confirmed verbatim by another Nature Genetics paper in 2003

[Association of pulmonary tuberculosis and HLA in south India. - all 2 versions »](#)
V Brahmajothi, RM **Pitchappan**, VN Kakkanaiah, M ... - TUBERCLE., 1991 - csa.com Association of pulmonary tuberculosis and HLA in south India. V Brahmajothi, RM **Pitchappan**, VN Kakkanaiah, M Sashidhar, K Rajaram, S Ramu, K Palanimurugan, CN Paramasivan, R Prabhakar TUBERCLE. 72:22, 123-132, 1991. ...
[Cited by 76](#) - [Related Articles](#) - [Web Search](#)

[Associations of HLA-DRB1, DQB1 and DPB1 alleles with pulmonary tuberculosis in south India - all 3 versions »](#) ... , CN Paramasivan, K Balakrishnan, RM **Pitchappan** - Tubercle and Lung Disease, 1999 – Elsevier Summary Setting: Tuberculosis is endemic in south India: sputum positive pulmonary tuberculosis is predisposed by HLA-DR2 in south India and few other populations of the world. Objective: To study HLA-DRB1, DQB1, DQA1 and DPB1 ...
[Cited by 55](#) - [Related Articles](#) - [Web Search](#)

[CITATION] A Region of Chromosome 20 Is Linked to Leprosy Susceptibility in a South Indian Population - [all 4 versions »](#) ... , S Ghei, M Golding, U Sengupta, RM **Pitchappan**, ... - The Journal of Infectious Diseases, 2002 - UChicago Press Leprosy is a chronic infectious disease caused by Mycobacterium leprae. Globally, there were 720,000 cases in the year 2000, with the majority of these occurring in India [1]. It is a disease that has long been recognized to ...
[Cited by 32](#) - [Related Articles](#) - [Web Search](#)

[HLA antigens in South India: I. Major groups of Tamil Nadu. - all 2 versions »](#)
RM **Pitchappan**, VN Kakkanaiah, R Rajashekar, N ... - Tissue Antigens, 1984 - ncbi.nlm.nih.gov HLA-A, B profile of 385 normal healthy individuals living in Tamil Nadu, India was studied by microlymphocytotoxicity testing. Antigen, gene and haplotype frequencies of this population were calculated and compared to those ...
[Cited by 20](#) - [Related Articles](#) - [Web Search](#)

[HLA affinities of Iyers, a Brahmin population of Tamil Nadu, South India. - all 2 versions »](#)
K Balakrishnan, RM **Pitchappan**, K Suzuki, US Kumar, ... - Hum Biol, 1996 - ncbi.nlm.nih.gov Seventy-four randomly sampled Iyers, a Brahmin population of Tamil Nadu and preachers and followers of the Advaita philosophy, living in Madurai, were studied for their HLA-A, HLA-B, HLA-C, HLA-DR, HLA-

DQ, C4A, C4B, and BF ...

[Cited by 18](#) - [Related Articles](#) - [Web Search](#)

[Castes, Migration, Immunogenetics and Infectious Diseases in South India - all 4 versions »](#)

RM **Pitchappan** - Community Genet, 2002 - content.karger.com It has been said that the grandest genetic experiment of nature has been conducted in south India in the name of the caste system. One can expect the frequency of an infectious disease to be equal to the product of the ...

[Cited by 10](#) - [Related Articles](#) - [Web Search](#)

[HLA Bw57 and DR7 association with psoriasis vulgaris in south India. - all 2 versions »](#)

RM **Pitchappan**, A Koteeswaran, VN Kakkaniah, M ... - Tissue Antigens, 1989 - ncbi.nlm.nih.gov Eighty-three south Indian patients with psoriasis vulgaris were studied for HLA antigen frequencies and compared with 77 controls studied simultaneously. HLA Bw57, a split of B17 was found elevated in the patients. The two sexes ...

[Cited by 11](#) - [Related Articles](#) - [Web Search](#)

[Studies on T-cells of the lizard, Calotes versicolor: adherent and non-adherent populations of the ...](#)

M MANICKASUNDARI, P SELVARAJ, RM **PITCHAPPAN** - Developmental and comparative immunology, 1984 - cat.inist.fr Studies on T-cells of the lizard, Calotes versicolor: adherent and non-adherent

populations of the spleen. M MANICKASUNDARI, P SELVARAJ, RM **PITCHAPPAN** Developmental and comparative immunology 8:22, 367-374, Elsevier Science, 1984.

[Cited by 10](#) - [Related Articles](#) - [Web Search](#)

[HLA-DRB1*,-DQB1* in Piramalai Kallars and Yadhavas, two Dravidian-speaking castes of Tamil Nadu, ...](#)

- [all 4 versions »](#) ... , K Balakrishnan, K Manoharan, RM **Pitchappan** - Tissue Antigens, 2003 - Blackwell Synergy Two Dravidian-speaking castes of Tamil Nadu, Piramalai Kallars (PKs, n = 205) and Yadhavas (YDs, n = 239) and a random panel (84) were studied for HLA-DRB1* and -DQB1* polymorphisms by DNA-SSOP typing methods. XI and XII ...

[Cited by 9](#) - [Related Articles](#) - [Web Search](#)

[HLA antigens in South India. II: Selected caste groups of Tamil Nadu](#) R RAJASEKAR, VN KAKKANAI AH,

RM **PITCHAPPAN** - Tissue antigens, 1987 - cat.inist.fr HLA antigens in South India. II: Selected caste groups of Tamil Nadu. R RAJASEKAR, VN KAKKANAI AH, RM **PITCHAPPAN** Tissue antigens 30:33, 113-118, Blackwell, 1987. Système HLA; HLA-System; Sistema ...

[Cited by 9](#) - [Related Articles](#) - [Web Search](#)

[Spectrum of immune reactivity to mycobacterial\(BCG\) antigens in healthy hospital contacts in South ...](#)

- [all 2 versions »](#) RM **Pitchappan**, V Brahmajothi, K Rajaram - TUBERCLE., 1991 - csa.com Spectrum of immune reactivity to mycobacterial(BCG) antigens in healthy hospital contacts in South India. RM **Pitchappan**, V Brahmajothi, K Rajaram TUBERCLE. 72:22, 133-139, 1991. In an effort to ...

[Cited by 9](#) - [Related Articles](#) - [Web Search](#)

Confirmed by two other papers in 1992 & 93: this paper was the sole basis for their work.

[CITATION] Founder effects explain the distribution of the HLA A1-B17 but not the absence of the A1-B8 ... RM **Pitchappan** - J Genet, 1988 [Cited by 9](#) - [Related Articles](#) - [Web Search](#)

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