Date of Document: November 14, 2026

CURRICULUM VITAE

Subramaniam Malarkannan PhD

Professor
Department of Medicine
Division of Medicine Hematology Oncology

OFFICE ADDRESS:

8727 Watertown Plank Road

Milwaukee, WI 53226

EDUCATION:

1980 - 1983 B.Sc., The American College Madurai, Madurai, Tamil Nadu
1983 BS, The American College, Madurai, India
1983 - 1985 M.Sc., The American College Madurai, Madurai, Tamil Nadu
1985 - 1987 M.Phil., Madurai Kamaraj University, Madurai, Tamil Nadu
1985 MS, The American College, Madurai, India
1987 M. Phil, Madurai Kamaraj University, Madurai, India
1987 - 1992 Ph.D. in human T cell biology, Department of Immunology, Graduate student in the lab of Prof. Veerappan R Muthukkaruppan Ph.D., Professor of Immunology
01/1991 - 12/1992 Visiting Predoctoral Fellow in the lab of Prof. Daniel C Hoessli MD, Department of Pathology, University of Geneva, Geneva
06/1992 - 06/1998 Postdoctoral Fellow in the lab of Prof. Nilabh Shastri, Ph.D., Department of Molecular and Cell Biology, Division of Immunology
1992 Ph. D, Madurai Kamaraj University, Madurai, India
07/1998 - 02/2000 Associate Specialist in the lab of Prof. Nilabh Shastri, Ph.D., University of California at Berkeley, CA. Molecular mechanism of cr

1) Transcriptional Regulation of Human NK cell development: GATA2 is an essential transcription fact, two transactivation domains, and one negative regulatory domain. The specific loss of the CD56bright NK cell population is a salient feature in GATA2T354M patients, with or without reduced CD56di
2) Transcriptional regulation involved with memory NK cells. The developmental origins and molecular, NKG2C+ NK cells mount a response akin to adaptive immunity and establish a reservoir of long-lived memory cells in HCMV+ individuals. The origins by which memory NKG2C+ NK cells are maintained remain, we used human spleens to investigate the transcriptional signatures and the developmental origins of memory NKG2C+ NK cells. We discover that the human spleen houses a distinct subset of memory NKG2CH, memory NKG2CHi NK cells expand
3) Generation and functions of NKRegs during pediatric GvHD. Allogeneic hematopoietic stem cell tran, chronic graft-versus-host disease (GvHD) remains a leading cause of late morbidity and mortality. Distinct from acute GvHD (aGvHD), chronic GvHD (cGvHD) involves multiple cell types, including T cells
4) Genomic and Immunological Predisposition to CD20/CD19 Bi-specific CAR T cell Therapy: Bi-specific, 4-1BB-CD3zLV20.19)-transduced T cell therapy provides a revolutionary approach to treat relapsed and refractory B cell malignancies. Yet a significant number of patients relapse or have only partial r, leveraging an ongoing Phase I/II clinical trial, we performed scRNA and bulk RN
5) Haploidentical-NK cell therapy: Working with a pediatric bone marrow transplant physician, Dr. Monica Thakar MD, (currently at) Seattle Children/Fred Hutch, we were able to get FDA approv

POSTGRADUATE TRAINING:

RESEARCH INTEREST:

codons mediated translation initiations

POSTGRADUATE TRAINING AND FELLOWSHIP APPOINTMENTS:

01/1991 - 12/1992 Visiting Fellow, Department of Pathology, University of Geneva, Geneva, Switzerland

06/1992 - 06/1998 Postdoctoral Fellow, Department of Molecular and Cell Biology, Division of Immunology, University of California, Berkeley, CA

07/1998 - 02/2000 Associate Specialist, Molecular mechanism of cryptic epitope generation, Division of Immunology, University of California, Berkeley, CA

FACULTY APPOINTMENTS:

3 - 2015 Nan Gardetto Endowed Chair for Immunotherapy, Blood Research

3 - 2000 11/2006 Associate Investigator (Secondary), Blood Research Institute, Blood

7 - 2014 Division of, Professor of Medicine-Hematology & Oncology (Primary)

7 - 2007 06/2014 Associate Professor of Medicine (Primary), Department of Medicine, Division of Hematology and Oncology, MCW, Milwaukee, WI

9 - 2014 Professor of Pediatrics (Secondary), Department of Pediatrics, MCW

03/2000 - 06/2007 Assistant Professor of Medicine, Department of Medicine, Division of Hematology and Oncology, Medical College of Wisconsin, Milwaukee, WI 53226

03/2000 - 2006 Associate Investigator, Blood Research Institute, Laboratory of Molecular Immunology, Blood Center of Wisconsin, Milwaukee, WI 53226

03/2000 - 06/2006 Division of Hematology and, Assistant Professor of Medicine (Primary)

12/2002 - 06/2006 Assistant Professor, Department of Microbiology and Immunology

12/2006 - Present Investigator, Blood Research Institute, Laboratory of Molecular Immunology, Blood Center of Wisconsin, Milwaukee, WI 53226

12/2006 - 02/2014 Investigator (Secondary), Blood Research Institute, Blood Center of

07/01/2007 - 06/31/2014 Associate Professor of Medicine, Department of Medicine, Hematology and Oncology, MCW

02/14/2014 - Present Senior Investigator, Blood Research Institute

02/2014 - Present Senior Investigator, Blood Research Institute, Blood Center of Wisconsin

03/01/2014 - Present Executive Council Member, Drug Development and Repurposing Initiative, CTSI, MCW

03/2014 - Present Executive Council Member, Drug Development and Repurposing Initiative (DDRI), SE WI Clinical and Translational Science Institute.

07/01/2014 - Present Professor of Medicine, Department of Medicine, MCW

07/01/2014 - Present Professor of Microbiology and Molecular Genetics, MCW

09/01/2014 - Present Professor of Pediatrics, Pediatrics, Hematology, Oncology and Transplantation, MCW
Milwaukee, WI
Institute, Blood Center of Wisconsin, Milwaukee, WI
Center of Wisconsin, Milwaukee, WI
Wisconsin, Milwaukee, WI
of Microbiology and Immunology, MCW, Milwaukee, WI
Oncology, Department of Medicine, MCW, Milwaukee, WI
Milwaukee, WI
Medical College of Wisconsin, Milwaukee, WI
Hematology & Oncology, Department of Medicine, MCW, Milwaukee, WI 07-2014- Professor of Microbiology and Immunology (Secondary), Department

ADMINISTRATIVE APPOINTMENTS:

06/2000 - Present Member, Cancer Center Grants Committee, MCW, Milwaukee, WI

06/2002 - 2016 Member, Seminar Committee, BRI, Milwaukee, WI

08/2004 - 2007 Member, Radiation Safety Committee, BRI, Milwaukee, WI

2007 - 2014 Chair, Radiation Safety Committee, Blood Research Institute, Milwaukee, WI 06/2014-2017 Coordinator, Monthly Research Meeting, Department of Medicine, Division of HemOnc, MCW

03/2014 - Present Standing Member, Clinical Research Grant Committee, Cancer Center

06/2014 - Present Coordinator, Basic Science, High-Risk Hematological Malignancy Program

09/2018 - 2021 Associate Director, Stimulating Access to Research in Residency (StARR) Program (HL143561), MCW
Medical College of Wisconsin Milwaukee, WI.
(HRHM), MACC Fund, Department of Pediatrics, MCW

EDUCATIONAL ADMINISTRATIVE APPOINTMENTS:

1993 - 2000 Mentor,, Undergraduate students in the Division of Immunology
2001 - Present Teaching faculty, Topics in Microbiology and Immunology, Medical
2001 - Present Teaching faculty, Graduate courses in Immunology (Tumor
2001 - Present Teaching faculty, Medical Microbiology, Medical College of
2001 - Present Teaching faculty, Research conferences for Medical Students
2001 - Present Mentor, Honor's Thesis program in Immunology for Undergraduate
2002 - Present Mentor, Minority Students Summer Research Program, Medical
2004 - Present Mentor, SPUR Program, Medical College of Wisconsin
2013 - 2019 Member, IDP Graduate Students' Admissions Committee
2020 - Present Member, Admissions Committee - Medical Scientist Training Program (MD-PhD students), Medical College of Wisconsin, Milwaukee, WI
Department of Microbiology and Immunology, Medical College of
Milwaukee, WI
Wisconsin, Milwaukee, WI.
Representative, Medical College of Wisconsin, Milwaukee, WI
Students; University of Wisconsin, Milwaukee, WI
College of Wisconsin, Milwaukee, WI
Department of Molecular and Cell Biology, UC Berkeley.
Immunology, Cell signaling, Developmental Immunology &
Wisconsin, Milwaukee, WI (MD Students)
Department of Medicine, Medical College of Wisconsin, Milwaukee, WI
College of Wisconsin, Milwaukee, WI (MD/ Ph.D. students)
Advanced Immunology classes, Signaling in Immune cells)

AWARDS AND HONORS:

1985 Distinction and second rank in M. Sc in the class of 1985
1985 - Present Distinction and Second Rank in M. Sc in the class of 1985
1986 - 1990 Junior and Senior Research Fellow of Council of Scientific and
1986 Distinction in M. Phil in the class of 1986
1986 - 1990 Junior and Senior Research Fellow of Council of Scientific and Industrial Research, Government of India
1986 - Present Distinction in M. Phil in the class of 1986
1990 - 1991 Senior Graduate Fellow, Department of Science and Technology, Government of India
1990 - 1991 Senior Graduate Fellow, Department of Science and Technology
1991 - 1992 Postgraduate Fellow, Indo?Swiss Collaboration in Biotechnology, ETH, and Zurich, Switzerland
1991 - 1992 Postgraduate Fellow, Indo-Swiss Collaboration in Biotechnology, ETH
1992 - 1993 Postdoctoral Fellow, Cancer Research Coordination Committee
1992 - 1993 Postdoctoral Fellow, Cancer Research Coordination Committee, University of California at Berkeley
1992 - 1995 Postdoctoral Fellows, World Health Organization, Geneva
1992 - 1995 Postdoctoral Fellow, WHO, Geneva, Switzerland (declined)
1993 - 1995 Postdoctoral Fellow, American Cancer Society (California Chapter)
1993 - 1995 Postdoctoral Fellow, American Cancer Society (California Chapter)
1997 - 1998 Postdoctoral Fellow, Cancer Research Coordination Committee, University of California at Berkeley
1997 - 1998 Postdoctoral Fellow, Cancer Research Coordination Committee
2002 - 2004 Young Investigator Award, American Society for Blood and Marrow Transplantation, National Chapter, Atlanta, GA, USA
2002 - 2007 ACS Research Scholar Award, American Cancer Society (National Chapter)
2002 - 2007 International ROTRF Scholar Award, Roche Organ Transplantation Research Foundation, Roche Inc. Switzerland
2002 - 2007 International ROTRF Scholar Award, Roche Organ Transplantation
2002 - 2004 Young Investigator Award; American Society for Blood and Marrow
2002 - 2007 ACS Research Scholar Award, American Cancer Society (National
2007 - 2009 Adhoc Member, Innate Immunity and Inflammation Study Section, NIAID. NIH
2009 - 2012 Full Member, Innate Immunity and Inflammation Study Section, NIAID

2009 - Present Full Member, Innate Immunity and Inflammation Study Section, NIAID, NIH
09/01/2013 - 08/31/2014 Springboard Award, Alex Lemonade Stand Foundation
2014 - Present Michael J Dunn Award for Research Excellence at the Medical College of
2015 - Present Gardetto Endowed Chair for Immunology and Immunotherapy. Blood Research
2016 - Present Outstanding Mentor of Graduate School (2015-16), Medical College of
2023 - Present Outstanding Mentor of Graduate School (2022-23), Medical College of
University of California at Berkeley
Research Foundation, Roche Inc. Switzerland
University of California at Berkeley
Chapter)
Switzerland (declined).
NIH
Transplantation, National Chapter, Atlanta, GA, USA
Wisconsin
Government of India
Institute, BloodCenter of Wisconsin
Industrial Research, Government of India
Wisconsin
Wisconsin
and Zurich, Switzerland

MEMBERSHIPS IN HONORARY AND PROFESSIONAL SOCIETIES:

1986 - 1992 The Indian Immunology Society
1986 - 1992 The Indian Immunology Society (Member)
1991 - 1992 European Network of Immunology Institutes (Member)
1991 - 1992 European Network of Immunology Institutes
1992 - Present The Association for the Advancement of Science
1992 - Present The Association for the Advancement of Science (Member)
2001 - Present American Association of Immunologists (Member)
2001 - Present American Association of Immunologists
2020 - Present American Society for Hematology

EDITORSHIPS/EDITORIAL BOARDS/JOURNAL REVIEWS:

Editorship

2006 Seminars in Immunology
2006 Vol 18:3, titled ‘NK Cell Development and Function: Missing?Self Revisited’

Journal Review

2000 Journal of Immunology
2001 Blood
2004 Biology of Blood and Marrow Transplantation
2006 Bone Marrow Transplantation
2007 Molecular Immunology
2008 Innate Immunity
2008 Cancer Gene Therapy
2009 Nature?Signaling Gateway
2009 Chronobiology International
2009 PloS Biology, PloSOne
2010 PNAS

LOCAL/REGIONAL APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

06/2002 - Present Member, Seminar Committee, Blood Research Institute
06/2004 - Present Member, Cancer Center Grants Committee, Medical College of Wisconsin
08/2004 - 2007 Member, Radiation Safety Committee, Blood Research Institute
2004 - Present Member, Cancer Center Grants Committee, Medical College of Wisconsin, Milwaukee, WI
08/2007 - Present Chair, Radiation Safety Committee, Blood Research Institute
09/2010 - Present Member, External Advisory Committee, BEST Grant, STEM Program of the NSF,
Milwaukee Area Technical College

09/2010 - Present Member, External Advisory Committee, BEST Grant, STEM Program of the
06/2012 - Present Member, Clinical and Translational Science Institute (CTSI), MCW.
08/2013 - Present Member, Grants Review Committee, CTSI, MCW.
03/2014 - Present Standing Member, Clinical Research Seed Grant Committee, MCW Cancer Center.
03/2014 - Present Member, Executive Council, Drug Development and Repurposing Initiative, CTSI, MCW.
06/2014 - Present Coordinator, Cellular Immunotherapy Program, Campus-wide, MCW.
06/2014 - Present Leader, Basic Science, High-Risk Hematological Malignancies Program of MACC Fund.
08/2014 - Present Coordinator, Research Meetings, HemOnc Division, Dept Medicine, MCW.
01/2015 - Present Member, Steering Committee, Training Grant (T32 in its 40-45 years), BRI, BCW.
08/2016 - Present Member, Grants Review Committee, Advancing Healthier Wisconsin (AHW), MCW.
10/2020 - Present Chair, Faculty Search Committee, Immuno-Oncology Initiative, MCW Cancer Center.
10/2023 - Present Member, Faculty Search Committee, Center for Immunology, MCW.
10/2023 - Present Co-Chair, Faculty Search Committee, Immunology Program, VBRI.
10/2024 - Present Member, Program Leader Search Committee, Immunology Program, VBRI.
02/2025 - Present Co-Chair, Faculty Search Committee, Immunology Program, VBRI (New Initiative).
NSF, Milwaukee Area Technical College, Milwaukee, WI.

NATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2004 External Member, Grant Review Committee, Italian Society for Cancer Research, Italy
2005 - 2006 Adhoc Reviewer, NIAID, Immune Regulation of Autoimmune disorders, NIH.
2006 - Present Adhoc Reviewer, NIAID, Innate Immunity and Inflammation (III) Study
2008 Full?Member, NIAID?Innate Immunity and Inflammation (III) Study Section, NIH
2009 External Member, Grant Review Committee, Agency for Science, Technology and Research (A*STAR), Biomedical Research Council of the Govt. Singapore (BMRC), Extramural Program, Singapore
2009 - 2012 Full-Member, NIAID, Innate Immunity and Inflammation (III) Study Section, NIH
2010 External Member, Grant Review Committee, Infection and Immunity Board, UK Medical Research Council (MRC), Extramural Program, UK
2011 - Present Adhoc Reviewer, Minority Biomedical Research Support, National Institute
2012 - Present Adhoc Reviewer, NIAID, Innate Immunity and Inflammation (III) Study Section, NIH
2013 - Present Adhoc Reviewer, NIAID, Innate Immunity and Inflammation (III) Study Section, NIH
2014 - Present Adhoc Reviewer, NIAID, IMM-J81A AREA Grants Study Section, NIH
2014 - Present Adhoc Reviewer, NIAID, F07-J20L Study Section, NIH
2014 - Present Adhoc Reviewer, NIAID, ZRG IMM Study Section, NIH
2014 - Present Adhoc Reviewer, NIAID, Innate Immunity and Inflammation (III) Study Section, NIH
2015 - Present Adhoc Reviewer, NIAID, ZRG-IMM-F-08, NIH
2015 - Present Adhoc Reviewer, NIAID, ZRG-IMM-F-02, NIH
2015 - Present Adhoc Reviewer, NIAID, Innate Immunity and Inflammation (III) Study Section, NIH
2016 - Present Chair, NIAID, ZRG IMM-F-02 Study Section, NIH
2016 - Present Reviewer, NIGM, R35 Review Panel
2016 - Present Adhoc Reviewer, NIAID, Innate Immunity and Inflammation (III) Study Section, NIH
2016 - Present Adhoc Reviewer, LCMI, NIH
2017 - Present Adhoc Reviewer, NIAID, Innate Immunity and Inflammation (III) Study Section, NIH
2017 - Present Adhoc Reviewer, NIAID, ZRG-IMM-F-02, NIH
2017 - Present Adhoc Reviewer, NIAID, ZRG-IMM-U-81, NIH
2017 - Present Adhoc Reviewer, NIAID, ZRG-F07-U-20, NIH
2018 - Present Chair, NIAID, ZRG1 IMM-F-02 Study Section, NIH
2019 - Present Adhoc Reviewer, NIAID, Transplantation, Tolerance, and Tumor Immunology (TTT) Study Section, NIH
2024 - Present Member, ASH Abstract Review Committee on Lymphocyte Biology
2024 - Present Reviewer, SBIR, Advanced manufacturing of emerging autologous cell-based therapies Study section, NCI.
2025 - Present Reviewer, ZRG1 CDPT-Z(08) Cancer Diagnostics, Prevention, and Treatments Study section, NCI.
Section, NIH
of General Medical Sciences, NIH.

INTERNATIONAL ELECTED/APPOINTED LEADERSHIP AND COMMITTEE POSITIONS:

2004 - Present External Member, Grant Review Committee, Italian Society for Cancer
2009 - Present External Member, Grant Review Committee, Agency for Science, Technology, and
2010 - Present External Member, Grant Review Committee, Infections and Immunity Board
2013 - Present External Grant Reviewer, Swiss Cancer League, Bern, Switzerland
2014 - Present External Grant Reviewer, National Science Centre, Poland.
2017 - Present External Grant Reviewer, National Research Foundation (NRF), Government
2018 - Present External Member, Grant Review Committee, Infections and Immunity Board
2019 - Present External Member, Grant Review Committee, Breast Cancer Now, UK
2019 - Present External Member, Grant Review Committee, University of Lyon, France
2020 - Present External Member, Comprehensive Research Program, National Research Foundation, Government of Singapore.
2020 - Present External Member, Grant Review Committee, Belgian Foundation Against Cancer, Belgium
2021 - Present External Member, NMRC, Government of Singapore.
2022 - Present External Referee Member, Marsden Fund, Royal Society Te Aparangi, Wellington, New Zealand
2023 - Present External Member, Grant Review Committee, Infections and Immunity Board
2024 - Present External Member, Worldwide Cancer Research, Edinburg UK
UK Medical Research Council (MRC), Extramural Program, UK
UK Medical Research Council (MRC), Extramural Program, UK
of Singapore.
UK Medical Research Council (MRC), Extramural Program, UK.
Government of Singapore (BMRC)
Research (A*STAR), Biomedical Research Council of the
Research, Italy

RESEARCH GRANTS/AWARDS/CONTRACTS/PROJECTS:

Active

Peer Review

Title:	Molecular mechanism of signaling co-ordination in innate lymphocytes
Source:	NIH
Role & Effort:	PI
PI:	Malarkannan
Dates:	08/01/2013 - 07/31/2017
Title:	Control of Inflammation in genetically-modified lymphocytes
Source:	Alex's Lemonade Stand Foundation
Role & Effort:	PI
PI:	Malarkannan
Dates:	09/01/2013 - 08/31/2014
Title:	Molecular signature of inflammation
Source:	NCI
Role & Effort:	PI
PI:	Malarkannan
Dates:	03/01/2014 - 02/28/2019

Prior

Peer Review

Title:	The Novel Function of immunodominant minor histocompatibility antigen, H60 during GvL
Source:	Cancer Center (Malarkannan)

Dates:	01/01/2002 - 12/31/2003
Title:	Immunodominant mH?Ags as Targets for GvT/GvH Reactivity
Source:	ACS?RSG?02?172?01?LIB (Malarkannan)
Dates:	07/01/2002 - 06/30/2007
Direct Funds:	$153,600 (Major goal of this project is to analyze the efficacy of H60 molecule as a tumor target for CD8+)
Title:	mH?Ags specific T?cell mediated Immunotherapy for Hematological Malignancies
Source:	Northwestern Mutual Life Insurance (Malarkannan)
Dates:	07/01/2002 - 06/31/2004
Direct Funds:	$25,000 (The goal of this project is to investigate the efficiency of antigen specific T cells in clearing tumors)
Title:	Bone marrow derived allo?NK cells for tumor targeted immunotherapy
Source:	ASBMT (Malarkannan)
Dates:	07/01/2002 - 06/30/2004
Direct Funds:	$25,000 (The goal of this project is to investigate the efficiency of bone marrow derived NK cells in clearing tumors expressing H60)
Title:	Role of mH?Ags in Solid Organ Transplant Rejection
Source:	ROTRF#111662730 (Malarkannan)
Dates:	07/01/2002 - 09/31/2008
Direct Funds:	$63,792 (The major goal of this project is to determine the role of H60, a dominant minor histocompatibility antigen that is responsible for graft rejections in murine models.)
Title:	Robust T?cell immunity to influenza in human populations
Source:	NIH?NIAID?U19 AI062627 (Gorski)
Dates:	10/01/2004 - 09/31/2009
Direct Funds:	$75,600 (Major aim of this project is to identify non?canonical and neo?antigenic epitopes capable of stimulating CD8+ T cells during influenza viral challenges in murine models)
Title:	Generation and decay of memory T cells in young, old and immuno?compromised populations
Source:	NIH?NIAID?RFP?NO1?HHSN2660050 0032C (Gorski)
Dates:	10/01/2005 - 03/31/2011

Direct Funds:	$193,000 (Major goals of this project are to define the functions of NKG2D, NKG2A/CD94, and KIR receptors expressed on the antigen?specific CD8+ human T cells during and after influenza viral infection)
Title:	Generation of LacZ?inducible murine T cell hybridomas specific for human PAR peptides
Source:	Cancer Center (Mast)
Dates:	07/01/2006 - 12/31/2008
Direct Funds:	$25,000 (Major goals of this project are to generate a diagnostic method for PAR peptides expressed by tumor cells)
Title:	Molecular mechanisms of Natural Killer cell activation
Source:	NIH 1R01 A1064826 (Malarkannan)
Dates:	07/01/2006 - 06/30/2011
Direct Funds:	$225,000 (Major goals of this project are to define the downstream signaling events of NKG2D receptor)

COMMITTEE SERVICE:

Medical College of Wisconsin

2004 Member, Cancer Center Grants Committee, Medical College of Wisconsin

MCW TEACHING ACTIVITIES:

Medical Student Education

2001 - Present Teaching faculty, Topics in Microbiology and Immunology
2001 - Present Teaching faculty, Research conferences for Medical Students, Dept Medicine
2001 - Present Teaching faculty, Graduate course in Immunology, Dept Microbiology and Molecular Genetics
2001 - Present Teaching faculty, Medical Microbiology
2002 - Present Mentor, Minority Students Summer Research Program

EXTRAMURAL TEACHING:

Medical Student Education

1993 - 2000 University of California - Berkeley, Mentor, Undergraduate students in the Div. Immunol., Molecular and Cell Biology
2001 - Present University of Wisconsin, Milwaukee, Mentor, Honor's Thesis program in Immunology for undergraduate students

MCW STUDENTS, FACULTY, RESIDENTS AND CLINICAL/RESEARCH FELLOWS MENTORED:

Graduate Students

PhD Students Advised

07/01/2013 - Present Alex Abel, MCW
07/01/2014 - Present Zachary Gerbec, MCW
07/01/2014 - Present Kate Dixon, MCW

Clinical/Research Fellows

2002 - 2004 Angela Timler, Department of Microbiology, Medical College of Wisconsin

EXTRAMURAL STUDENTS, FACULTY, RESIDENTS, AND CLINICAL/RESEARCH FELLOWS MENTORED:

Postdoctoral Researchers

10/2001 - 2006 Dr Jeyarani Regunathan, Ph. D?Postdoctoral Fellow
05/2003 - Present Dr Aradhana Awasthi, Ph. D?Postdoctoral Fellow
11/2004 - 01/2005 Dr Netanya Spencer, MD Ph D?Research Fellow
07/2005 - 06/2006 Dr Snjezana Kutlesa, Ph. D?Postdoctoral Fellow
08/2005 - 2008 Dr Haiyan Chu, Ph. D?Postdoctoral Fellow
10/2006 - 2008 Dr Hailong Guo, Ph D? Postdoctoral Fellow
10/2006 - 2007 Dr Tongbiao Zhao, Ph D?Postdoctoral Fellow
01/2007 - Present Dr Kamalakannan Rajasekaran, Ph D, Postdoctoral Fellow
06/2007 - 2008 Dr Mathew Tinguely, MD, Postdoctoral Fellow
11/2008 - Present Dr Pawan Kumar, Ph D, Postdoctoral Fellow
02/2009 - Present Dr Ravikumar Lella, Ph D, Postdoctoral Fellow

Clinical/Research Fellows

2003 Eric Kohler, Rotation Student, MSTP Program, Medical Colege of Wisconsin
2004 Sandya Govindarajan, Rotation Student, Dept Microbiology, Medical Colege of Wisconsin
2006 - 2008 Mathew Tingley MD, Research Fellow, Department of Medicine, Medical Colege of Wisconsin
2006 Tyce Kearl, Rotation Student, MSTP Program, Medical Colege of Wisconsin

BIBLIOGRAPHY

Refereed Journal Publications/Original Papers

1. Fyn/ADAP via Carma1/Bcl10/Tak1 exclusively regulates inflammatory cytokine production. Rajasekaran K, Kumar P, Schuldt KM, Peterson EJ, Vanhaesebroeck B, Dixit V, Thakar MS and Malarkannan, S. (2013) Nature Immunology 14:1127-1136
2. IL-22: An Evolutionary Missing-Link Authenticating the Role of the Immune System in Tissue Regeneration. Kumar P, Palmer MJ, Thakar MS and **Malarkannan S** (2013) Journal of Cancer, 4: 57-65.
3. Clinical Relevance of Natural Killer Cells Following Hematopoietic Stem Cell Transplantation. Palmer MJ, Rajasekaran K, Thakar MS and **Malarkannan S** (2013) Journal of Cancer, 4: 25-35.
4. IQGAP1: A regulator of intracellular spacetime. **Malarkannan S**, Awasthi T, Rajasekaran K, and Thakar SM (2012) J Immunol-188:2057-2063
5. IL-22 from conventional NK cells are epithelial regenerative and inflammation protective during influenza infection. Kumar P, Rajasekaran K, Thakar MS, Ouyang W and **Malarkannan S** (2012) Mucosal Immunology, 6:69-82.
6. Rajasekaran K, Chu H, Kumar P, Xiao Y, Tinguely M, Samarakoon A, Kim TW, Li X, Thakar MS, Zhang J, **Malarkannan S**. Transforming growth factor-beta-activated kinase 1 regulates natural killer cell-mediated cytotoxicity and cytokine production. J Biol Chem. 2011 Sep 09;286(36):31213-24. PMCID: PMC3173069
7. Kwun J, **Malarkannan S**, Burlingham WJ, Knechtle SJ. Primary vascularization of the graft determines the immunodominance of murine minor H antigens during organ transplantation. J Immunol. 2011 Oct 15;187(8):3997-4006. PMCID: PMC3357205
8. Rap1b facilitates NK cell functions via IQGAP1?mediated signalosomes. Awasthi A, Samarakoon A, Chu H, Rajasekaran K, Quilliam L, Wodnicka M, White G, **Malarkannan S**. (2010) J Exp Med 207:1923?1938
9. Functional dichotomy between NKG2D and CD28?mediated co?stimulation in human CD8+ T cells Rajasekaran K, Xiong V, Fong L, Gorski J, and **Malarkannan S**. (2010) EPup. PloSOne
10. Evasion of natural killer cells by influenza virus Guo H, Kumar P, and **Malarkannan S** (2010) J Leuc Biol 89:1?6
11. Murine NKG2D Ligands: "Double, double toil and trouble" Samarakoon A, Chu H, and **Malarkannan S** (2009) Molecular Immunology 46:1011?1019
12. The Functional Impairment of Natural Killer cells During Influenza Virus Infection Guo H, Kumar P, Moran

TM, Garcia?Sastre A, Zhou Y and **Malarkannan S** (2009) 'Outstanding Observations'?Immunology and Cell biology 87:579?589

13. Recognition of allo?peptide is governed by novel anchor imposition and limited variations in TCR contact residues Reinbold C and **Malarkannan S** (2008) Molecular Immunology 45:1318?26
14. p85? subunit of PI3K plays a pivotal role in the cytokine generation in NK cells Awasthi A, Chu H, Kutlesa S, Wang D, and **Malarkannan S** (2008) Genes Immun. 9(6):522?35
15. Rap1b Regulates B Cell Development, Homing, and T?Dependent Humoral Immunity Chu H, Awasthi A, White GC, Chrzanowska?Wodnicka M, and **Malarkannan S** (2008) J Immunol. 181(5):3373?83
16. Impaired survival of peripheral T cells, disrupted NK/NKT cell development, and liver failure in mice lacking gimap5 Schulteis RD, Chu H, Dai X, Chen Y, Edwards B, Haribhai B, Williams CB, **Malarkannan S**, Hessner MJ, Glisic?Milosavljevic S, Jana S, Kerschen EJ, Ghosh S, Wang D, Kwitek AE, Lernmark A, Gorski J, and Weiler H (2008) Blood 112:4905-14
17. The p110?delta isoform of PI 3?kinase plays a critical role in NK cell?mediated tumor killing and viral clearance Guo H, Samarakoon A, Vanhaesebroeck B, and **Malarkannan S** (2008) J Exp Med. 205(10):2419?35
18. Bcl10 determines the NKG2D?mediated signaling divergence of cytotoxicity and cytokine generation in NK cells **Malarkannan S**, Regunathan J, Chen Y, and Wang D (2007) J Immunol. 179: 3752?3762
19. Differential and non?redundant roles of Phospholipase C?2 and Phospholipase C?1 in the terminal maturation of NK cells Regunathan J, Chen Y, Kutlesa S, Dai X, Bai L, Wen R, Wang D, and **Malarkannan S** (2006) J Immunol. 177: 5365?5376
20. NK cell Development and Function: Missing?self revisited **Malarkannan S** (2006) Editorial: Seminars in Immunology 18:143?144
21. Altered?Balance: Inhibitory Ly49 receptors regulate NKG2D?mediated NK cell functions **Malarkannan S** (2006) Seminars in Immunology 18:186?192
22. NKG2D?mediated NK cell Function is regulated by Inhibitory Ly49 Receptors Regunathan J Chen Y, Wang D, and **Malarkannan S** (2005) Blood 105:233?240
23. Minor Histocompatibility Antigens: Time for a paradigm shift? **Malarkannan S** (2005) Transplantation Reviews 19:1?19
24. Minor Histocompatibility Antigens: Molecular targets for immunomodulation in tissue transplantation and tumor therapy **Malarkannan S**, Regunathan J, and Tranchita AM (2005) Clinical and Applied Immunology Reviews 5: 95?109
25. Minor H Antigens: Molecular Barriers for successful Organ Transplantations **Malarkannan S**, and Pooler LM (2004) Ed: Drs D. Wilkes and W. Burlingham., in 'Immunobiology of Organ Transplantation', Chapter 7: 71?105, Kluwer/Plenum Press.
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