Curriculum vitae

Swayam Prakash, MS, PhD, FACSc, FRSB. Assistant Researcher, Department of Ophthalmology, School of Medicine, University of California, Irvine. fswayamp@hs.uci.edu; swayam.immunogenetics@gmail.com; LinkedIn. Updated November 2026.

Profile

Immunologist and vaccine scientist integrating human immunogenetics, T-cell and mucosal immunology, multi-omics, computational biology, artificial intelligence and preclinical models to develop vaccines and immunotherapies for emerging and persistent viral diseases.

Appointments

2024 to date	**Assistant Researcher** (Assistant Research Professor rank, non-tenured), Department of Ophthalmology, School of Medicine, University of California, Irvine, USA
2023 to 2024	**Associate Specialist**, Cellular and Molecular Immunology Laboratory, Department of Ophthalmology, School of Medicine, University of California, Irvine, USA
2018 to 2023	**Postdoctoral Fellow**, Department of Immunology, School of Medicine, University of California, Irvine, USA
2016 to 2017	**Visiting Fellow**, Histocompatibility Laboratory, Institute of Immunology, University Hospital Essen, Germany
2015 to 2018	**Research Associate**, Department of Nephrology and Renal Transplantation, Sanjay Gandhi Postgraduate Institute of Medical Sciences (SGPGIMS), Lucknow, India
2014 to 2015	**Senior Research Fellow**, Department of Nephrology and Renal Transplantation, SGPGIMS, Lucknow, India
2012 to 2014	**Junior Research Fellow**, Department of Medical Genetics, SGPGIMS, Lucknow, India

Education

2026	**Master of Information and Data Science (MIDS)**, School of Information, University of California, Berkeley, USA
2026	**Master of Science in Artificial Intelligence**, Woolf, through the Udacity Institute of AI and Technology
2026	**Executive Education, AI and digital transformation**, Harvard Business School, USA
2015	**PhD, Biotechnology**, Department of Medical Genetics, SGPGIMS, Lucknow, India. Advisor: Prof. Suraksha Agrawal. Thesis: Molecular profiling of the killer immunoglobulin-like receptors (KIRs) and their HLA class I ligands, and their clinical relevance to end-stage renal disease.
2010	**MSc, Biotechnology**, Utkal University, Bhubaneswar, India. Advisor: Prof. Kalpana Dash. Thesis: Genetic diversity of KIR genes of natural killer cells among North Indians.
2008	**BSc, Biotechnology**, Utkal University, Bhubaneswar, India

Honors and fellowships

2026	Fellow, Royal Society of Biology (FRSB)
2026	Fellow, American Association of Clinical Scientists (FACSc)
2024	Elected full member, Sigma Xi, The Scientific Research Honor Society
2014	Senior Research Fellowship, Indian Council of Medical Research
2012	Junior Research Fellowship, Department of Science and Technology, India

Research funding

2025	**20/20 Society Pilot Research Grant**, Gavin Herbert Eye Institute, UC Irvine. Role: PI. HSV-1 latency-associated novel biomarker screening for recurrent ocular herpes. Funded.
2026	Multiple NIH proposals (R01, R21 and R43; NIAID and NIMH) as PI or Co-PI on universal coronavirus vaccines, cross-protective T cells against RSV and SARS-CoV-2, AI-informed vaccine design, Long COVID therapeutics and herpes latency. Under review; details on request.

Teaching and mentoring

2018 to date	Primary supervisor for more than 30 undergraduate researchers in the UCI Bio 199 program, several now in MD and DDS/DMD programs; mentoring of postdoctoral, postgraduate and clinical-observer trainees.

Professional service

2026	NIH peer reviewer, Vaccines Against Infectious Diseases study section
Current	Associate Editor, Frontiers in Microbiology and Frontiers in Aging
Current	Special Issue Editor, Frontiers in Microbiology and Vaccines
Current	Editorial Board, International Journal of Genetics and Genomics
Current	Regional Representative, West Coast USA, International Society for Vaccines
Current	International Committee Member, American Society for Histocompatibility and Immunogenetics
Current	Member, UCI Institutional Biosafety Committee and Maximum Allowable Quantities Steering Committee
Ongoing	Reviewer of more than 150 manuscripts, reviews and meta-analyses for journals including Frontiers in Immunology, Frontiers in Medicine, Frontiers in Pharmacology, Gene, Gene Reports, Heliyon, International Journal of Immunogenetics and Meta Gene

Memberships

American Association of Immunologists; American Society of Human Genetics; European Society of Human Genetics; American Society for Histocompatibility and Immunogenetics; American Society of Nephrology; International Society for Vaccines; Sigma Xi; Indian Society of Human Genetics; Indian Science Congress Association.

Technical expertise

Immunology	Flow cytometry, CyTOF, ELISpot, ELISA and Luminex, PBMC work, cell culture, transfection, western blotting
Genomics	10x single-cell RNA-seq, bulk RNA-seq, NGS, Sanger sequencing, GWAS, microarrays, NanoString, qRT-PCR and ddPCR
Virology	HSV and SARS-CoV-2 assays; neutralization and plaque assays; BSL-2/3 and ABSL-2/3; mouse, hamster, guinea pig and rabbit studies
Histocompatibility	Molecular HLA typing (SSOP, SSP, sequencing), serological typing by complement-dependent lymphocytotoxicity, crossmatch, PRA (ELISA) and DSA testing, Luminex, mixed lymphocyte reaction, KIR genotyping and HLA ligand matching
Public health	Global Burden of Disease collaborator (IHME); CKDu field studies in tribal regions of India with GWAS, renal biopsy immunohistochemistry, trace-element and heat-stress analyses
Artificial intelligence	Machine learning and deep learning, interpretable and batch-aware modeling, nested cross-validation and feature attribution, data science pipelines; AI in vaccine design and preclinical testing
Computation	R, Python, Linux, immunoinformatics, statistical genomics, pathway analysis, sequence and protein modeling
Governance	IACUC, IBC, IRB and CDC eIPP protocols; biosafety risk assessment; multidisciplinary project coordination

Software

2015	MASS KIR Analyzer, an in-silico tool for analyzing KIR gene content (Curr Bioinform 2015)

Selected presentations

2025	**Invited talk and CME.** HLA typing methods and crossmatch strategies in renal transplantation. Transplantation Immunology Workshop, 54th Annual Conference of the Indian Society of Nephrology, Lucknow, India
2024	**Invited talk.** Dynamics of spike-specific neutralizing antibodies across five years of emerging SARS-CoV-2 variants of concern reveal conserved epitopes that protect against severe COVID-19. Clinical and Translational Serology Task Force Round Table, Frederick National Laboratory for Cancer Research, NCI, NIH
2024	**CME.** Next-generation universal coronavirus vaccines. Indian Association of Tropical Parasitology, Uttar Pradesh Chapter
2024	**CME.** Role of HLA immunogenetics in COVID-19. Indian Society of Nephrology
2022	**CME.** COVID-19. Indian Virological Society and American Society for Microbiology
2021	**Posters (2).** iNKT1 cells in HSV-1 infected cornea; CD8 T-cell exhaustion pathways in recurrent ocular herpes. ARVO Annual Meeting
2019	**Posters (3).** HLA-DQB1*0601 and rheumatoid arthritis, ACR/ARP Annual Meeting, Atlanta; FGF1 (TTHX1114) in primary ocular herpes and inflammasome pathways in herpetic keratitis, ARVO, Vancouver
2018	**Talk.** Genome-wide analysis of genetic risks and immunological pathways in chronic kidney disease of unknown etiology. 18th Indian Society of Nephrology Conference, Bhubaneswar
2016	**Talk.** Association of KIR3DL1/3DS1 alleles with renal allograft rejection. 26th International Congress of The Transplantation Society, Hong Kong
2016	**Posters (3).** miRNA SNPs and allograft rejection (ISOT, Chandigarh); HLA-DQ6.1 and rheumatoid arthritis (IRACON, Kochi); microRNAs in end-stage renal disease (ISNCON, Mumbai)
2015	**Talk.** KIR associations with childhood acute lymphoblastic leukemia. 12th International Summer School on Immunogenetics (ASHI and APHIA), Ayutthaya, Thailand
2012 to 2014	**Posters.** American Transplant Congress, Boston (2012); World Congress of Internal Medicine, Santiago (2012); ISNCON, Kolkata (2014)

Media

2021	NBC4 Los Angeles: UCI scientists developing a more effective vaccine
2021	Spectrum News 1: UC Irvine researchers working on a vaccine for all coronaviruses; follow-up report, December 2021

Metrics

Google Scholar (October 2026): 54,370 citations, h-index 32, i10-index 56. ORCID 0000-0003-3986-890X. Scopus Author ID 57212263375. LinkedIn: linkedin.com/in/swayam-prakash-ms-phd-frsb-b522a821a.

Publications (98)

Newest first. Includes 11 preprints and 20 Global Burden of Disease consortium papers.

98. Karan S, **Prakash S**, Maurya C, LeNg SX, BenMohamed L. Tissue-Resident and Effector-Memory Lymphocyte Recruitment to the Ocular Mucosa Requires CCL28/CCR10 Signaling During Recurrent HSV-1 Infection *bioRxiv* [Preprint]. 2026 Sep 20;. doi: 10.64898/2026.09.14.751393; PMID: 42779628; PMC13596252

97. Srivastava R, **Prakash S**, Karan S, BenMohamed L. High Frequencies of Senescent and Exhausted Natural Killer Cells and SARS-CoV-2-Specific Memory CD8(+) T Cells Distinguish Critically Ill from Asymptomatic Unvaccinated COVID-19 Patients *Viruses*. 2026 Aug 28; 18(9). doi: 10.3390/v18090940; PMID: 42797773; PMC13612035

96. **Prakash S**, Dhanushkodi NR, Quadiri A, Vahed H, Chentoufi AA, Coulon PG, Ibraim IC, El Babsiri A, Tifrea DF, Figueroa CJ, Gil D, Ulmer JB, BenMohamed L. Multi-antigen coronavirus vaccine induces potent and durable cross-protection against multiple SARS-CoV-2 variants *NPJ Vaccines*. 2026 Aug 18; 11(1). doi: 10.1038/s41541-026-01549-y; PMID: 42834091; PMC13638991

95. Rahman A, **Prakash S**, Karan S, Ng SXL, Park G, Maurya C, Garcia A, Intharachalit K, Hwang J, Tang CTY, Chow RA, Suoth BS, Liao EJ, BenMohamed L. CCL25 chemokine promotes antiviral tissue resident CD4(+) and CD8(+) effector memory T(RM) cells associated with a reduction of ocular herpes infection and disease: a potential gut-eye axis in herpes immunity *Front Immunol*. 2026; 17::1872553. doi: 10.3389/fimmu.2026.1872553; PMID: 42540065; PMC13425080

94. Lekbach Y, **Prakash S**, Vahed H, Quadiri A, Rahman A, El Fatimi EH, Dorotta JC, Suoth BS, Maurya C, Garcia A, Park G, BenMohamed L. NF-κB/OCT-1 Mediated Upregulation of CXCL14 Chemokine Mobilizes Mucosal Effector Memory CD44+CD62L-CD4+ and CD8+ TEM Cells, and NK Cells Associated with Protection Against Genital Herpes *Pathog Immun*. 2026; 11(1)::191-222. doi: 10.20411/pai.v11i1.879; PMID: 42524223; PMC13410923

93. Vahed H, Chentoufi AA, **Prakash S**, Quadiri A, Karan S, Lekbach Y, Omorogieva E, Patel S, Tadros J, Liao EJ, Lau L, Tifrea DF, Ibraim IC, BenMohamed L. CXCL13/CXCR5 chemokine axis promotes antiviral CXCR5+CD19+ B Cells and follicular/effector CXCR5+CD4+ T Cells in the lungs associated with protection from severe and fatal COVID-19 following infection with pathogenic SARS-CoV-2 Delta variant *J Immunol*. 2026 Mar 17; 215(3). doi: 10.1093/jimmun/vkag017; PMID: 41847859

92. Lekbach Y, Chentoufi AA, **Prakash S**, Karan S, Quadiri A, Hormi-Carver KK, Dorotta JC, BenMohamed L. Role of mucosal chemokines in the development of tissue-resident CD4(+) and CD8(+) T(RM) cells to fend off herpes simplex infections *Front Immunol*. 2026; 17::1661640. doi: 10.3389/fimmu.2026.1661640; PMID: 41798926; PMC12961821

91. Karan S, **Prakash S**, Chentoufi AA, Intharachalit K, LeNg SX, Hwang J, Maurya C, BenMohamed L. A Tissue-Targeted Immunotherapy Protects Against Recurrent Ocular Herpes Infection and Disease, and Alleviates the Associated Cognitive, Behavioral, and Social Deficits in a 'Humanized' HLA Transgenic Mouse Model of UVB-Induced Reactivation *bioRxiv* [Preprint]. 2026 Sep 27. doi: 10.64898/2026.09.27.754856

90. Elfatimi E, Lekbach Y, **Prakash S**, Karan S, Dorotta JC, Garcia A, Suoth BS, Maurya C, Omorogieva EY, Ng SXL, Liao EJ, Chow RA, BenMohamed L. Artificial intelligence-, organoid-, and organ-on-chip-powered models to improve pre-clinical animal testing of vaccines and immunotherapeutics: potential, progress, and challenges *Front Artif Intell*. 2025; 8::1681106. doi: 10.3389/frai.2025.1681106; PMID: 41244612; PMC12615408

89. **Prakash S**, Karan S, Lekbach Y, Tifrea DF, Figueroa CJ, Ulmer JB, Young JF, Glenn G, Gil D, Jones TM, Redfield RR, BenMohamed L. Insights into Persistent SARS-CoV-2 Reservoirs in Chronic Long COVID *Viruses*. 2025 Sep 27; 17(10). doi: 10.3390/v17101310; PMID: 41157582; PMC12568064

88. Quadiri A, Lekbach Y, Elfatimi E, **Prakash S**, Vahed H, Karan S, Rehman A, Ng SXL, Maurya C, Chow R, BenMohamed L. The Path Towards Effective Long-Lasting Tissue-Targeted Prime/Pull/Keep Herpes Simplex Therapeutic Vaccines *Vaccines (Basel)*. 2025 Aug 27; 13(9). doi: 10.3390/vaccines13090908; PMID: 41012114; PMC12474029

87. **Prakash S**, Dhanushkodi NR, Quadiri A, Vahed H, Chentoufi AA, Coulon PG, Ibraim IC, Babsiri AE, Tifrea DF, Figueroa CJ, Gil D, Ulmer JB, BenMohamed L. A Multi-Antigen Broad-Spectrum Coronavirus Vaccine Induces Potent and Durable Cross-Protection Against Infection and Disease Caused by Multiple SARS-CoV-2 Variants *Res Sq* [Preprint]. 2025 Aug 20;. doi: 10.21203/rs.3.rs-7208748/v1; PMID: 40894020; PMC12393516

86. Elfatimi E, Lekbach Y, **Prakash S**, BenMohamed L. Artificial intelligence and machine learning in the development of vaccines and immunotherapeutics-yesterday, today, and tomorrow *Front Artif Intell*. 2025; 8::1620572. doi: 10.3389/frai.2025.1620572; PMID: 40756816; PMC12313644

85. Vahed H, **Prakash S**, Quadiri A, Ibraim IC, Omorogieva E, Patel S, Tadros J, Liao EJ, Lau L, Chentoufi AA, Nesburn AB, Kuppermann BD, Ulmer JB, Gil D, BenMohamed L. A pan-beta-coronavirus vaccine bearing conserved and asymptomatic B- and T-cell epitopes protects against highly pathogenic Delta and highly transmissible Omicron SARS-CoV-2 variants *Hum Vaccin Immunother*. 2025 Dec; 21(1)::2527438. doi: 10.1080/21645515.2025.2527438; PMID: 40613499; PMC12233765

84. Chentoufi AA, **Prakash S**, Vahed H, Karan S, Quadiri A, Nesburn AB, BenMohamed L. A tissue-targeted prime/pull/keep therapeutic herpes simplex virus vaccine protects against recurrent ocular herpes infection and disease in HLA-A*0201 transgenic rabbits *J Virol*. 2025 May 20; 99(5)::e0013525. doi: 10.1128/jvi.00135-25; PMID: 40207928; PMC12090795

83. Quadiri A, **Prakash S**, Vahed H, Tadros JM, Sun M, Hormi-Carver KK, Patel SJ, BenMohamed L. Therapeutic mucosal vaccination of herpes simplex virus type 2 infected guinea pigs with an adenovirus-based vaccine expressing the ribonucleotide reductase 2 and glycoprotein D induces local tissue-resident CD4+ and CD8+ TRM cells associated with protection against recurrent genital herpes *Front Immunol*. 2025; 16::1568258. doi: 10.3389/fimmu.2025.1568258; PMID: 40207227; PMC11979635

82. Zayou L, **Prakash S**, Vahed H, Dhanushkodi NR, Quadiri A, Belmouden A, Lemkhente Z, Chentoufi A, Gil D, Ulmer JB, BenMohamed L. Dynamics of spike-specific neutralizing antibodies across five-year emerging SARS-CoV-2 variants of concern reveal conserved epitopes that protect against severe COVID-19 *Front Immunol*. 2025; 16::1503954. doi: 10.3389/fimmu.2025.1503954; PMID: 40040708; PMC11876060

81. Quadiri A, **Prakash S**, Zayou L, Dhanushkodi NR, Chilukuri A, Ryan G, Wang K, Vahed H, Chentoufi AA, BenMohamed L. A Spike-Based mRNA Vaccine Encapsulated in Phospholipid 1,2-Dioleoyl-sn-Glycero-3-PhosphoEthanolamine Containing Lipid Nanoparticles Induced Potent B- and T-Cell Responses Associated with Protection Against SARS-CoV-2 Infection and COVID-19-like Symptoms in Hamsters *Vaccines (Basel)*. 2025 Jan 8; 13(1). doi: 10.3390/vaccines13010047; PMID: 39852826; PMC11769137

80. Zayou L, **Prakash S**, Vahed H, Dhanushkodi NR, Quadiri A, Belmouden A, Lemkhente Z, Chentoufi A, Gil D, Ulmer JB, BenMohamed L. Dynamics of Spike-Specific Neutralizing Antibodies Across Five-Year Emerging SARS-CoV-2 Variants of Concern Reveal Conserved Epitopes that Protect Against Severe COVID-19 *bioRxiv* [Preprint]. 2024 Sep 25;. doi: 10.1101/2024.09.22.614369; PMID: 39386567; PMC11463540

79. Ranjan P, Ghoshal U, **Prakash S**, Pandey A, Shukla R. Genetic variability of histidine-rich protein 2 repeat sequences: Misleading factor in true determination of Plasmodium falciparum in different population *Indian J Med Microbiol*. 2024 May-Jun; 49::100616. doi: 10.1016/j.ijmmb.2024.100616; PMID: 38761865

78. Quadiri A, **Prakash S**, Dhanushkodi NR, Singer M, Zayou L, Shaik AM, Sun M, Suzer B, Lau LSL, Chilukurri A, Vahed H, Schaefer H, BenMohamed L. Therapeutic prime/pull vaccination of HSV-2-infected guinea pigs with the ribonucleotide reductase 2 (RR2) protein and CXCL11 chemokine boosts antiviral local tissue-resident and effector memory CD4(+) and CD8(+) T cells and protects against recurrent genital herpes *J Virol*. 2024 May 14; 98(5)::e0159623. doi: 10.1128/jvi.01596-23; PMID: 38587378; PMC11092353

77. Coulon PG, **Prakash S**, Dhanushkodi NR, Srivastava R, Zayou L, Tifrea DF, Edwards RA, Figueroa CJ, Schubl SD, Hsieh L, Nesburn AB, Kuppermann BD, Bahraoui E, Vahed H, Gil D, Jones TM, Ulmer JB, BenMohamed L. High frequencies of alpha common cold coronavirus/SARS-CoV-2 cross-reactive functional CD4(+) and CD8(+) memory T cells are associated with protection from symptomatic and fatal SARS-CoV-2 infections in unvaccinated COVID-19 patients *Front Immunol*. 2024; 15::1343716. doi: 10.3389/fimmu.2024.1343716; PMID: 38605956; PMC11007208

76. **Prakash S**, Dhanushkodi NR, Singer M, Quadiri A, Zayou L, Vahed H, Coulon PG, Ibraim IC, Tafoya C, Hitchcock L, Landucci G, Forthal DN, El Babsiri A, Tifrea DF, Figueroa CJ, Nesburn AB, Kuppermann BD, Gil D, Jones TM, Ulmer JB, BenMohamed L. A Broad-Spectrum Multi-Antigen mRNA/LNP-Based Pan-Coronavirus Vaccine Induced Potent Cross-Protective Immunity Against Infection and Disease Caused by Highly Pathogenic and Heavily Spike-Mutated SARS-CoV-2 Variants of Concern in the Syrian Hamster Model *bioRxiv* [Preprint]. 2024 Feb 15;. doi: 10.1101/2024.02.14.580225; PMID: 38405942; PMC10888826

75. Dhanushkodi NR, **Prakash S**, Quadiri A, Zayou L, Srivastava R, Shaik AM, Suzer B, Ibraim IC, Landucci G, Tifrea DF, Singer M, Jamal L, Edwards RA, Vahed H, Brown L, BenMohamed L. Antiviral and Anti-Inflammatory Therapeutic Effect of RAGE-Ig Protein against Multiple SARS-CoV-2 Variants of Concern Demonstrated in K18-hACE2 Mouse and Syrian Golden Hamster Models *J Immunol*. 2024 Feb 15; 212(4)::576-585. doi: 10.4049/jimmunol.2300392; PMID: 38180084

74. **Prakash S**, Dhanushkodi NR, Zayou L, Ibraim IC, Quadiri A, Coulon PG, Tifrea DF, Suzer B, Shaik AM, Chilukuri A, Edwards RA, Singer M, Vahed H, Nesburn AB, Kuppermann BD, Ulmer JB, Gil D, Jones TM, BenMohamed L. Cross-protection induced by highly conserved human B, CD4(+), and CD8(+) T-cell epitopes-based vaccine against severe infection, disease, and death caused by multiple SARS-CoV-2 variants of concern *Front Immunol*. 2024; 15::1328905. doi: 10.3389/fimmu.2024.1328905; PMID: 38318166; PMC10839970

73. Zayou L, **Prakash S**, Dhanushkodi NR, Quadiri A, Ibraim IC, Singer M, Salem A, Shaik AM, Suzer B, Chilukuri A, Tran J, Nguyen PC, Sun M, Hormi-Carver KK, Belmouden A, Vahed H, Gil D, Ulmer JB, BenMohamed L. A multi-epitope/CXCL11 prime/pull coronavirus mucosal vaccine boosts the frequency and the function of lung-resident memory CD4(+) and CD8(+) T cells and enhanced protection against COVID-19-like symptoms and death caused by SARS-CoV-2 infection *J Virol*. 2023 Dec 21; 97(12)::e0109623. doi: 10.1128/jvi.01096-23; PMID: 38038432; PMC10734477

72. Quadiri A, **Prakash S**, Dhanushkodi NR, Singer M, Zayou L, Shaik AM, Sun M, Suzer B, Lau L, Chilukurri A, Vahed H, Schaefer H, BenMohamed L. Therapeutic Prime/Pull Vaccination of HSV-2 Infected Guinea Pigs with the Ribonucleotide Reductase 2 (RR2) Protein and CXCL11 Chemokine Boosts Antiviral Local Tissue-Resident and Effector Memory CD4(+) and CD8(+) T Cells and Protects Against Recurrent Genital Herpes *bioRxiv* [Preprint]. 2023 Aug 9;. doi: 10.1101/2023.08.08.552454; PMID: 37609157; PMC10441333

71. Dhanushkodi NR, **Prakash S**, Quadiri A, Zayou L, Srivastava R, Tran J, Dang V, Shaik AM, Chilukurri A, Suzer B, Vera P, Sun M, Nguyen P, Lee A, Salem A, Loi J, Singer M, Nakayama T, Vahed H, Nesburn AB, BenMohamed L. Mucosal CCL28 Chemokine Improves Protection against Genital Herpes through Mobilization of Antiviral Effector Memory CCR10+CD44+ CD62L-CD8+ T Cells and Memory CCR10+B220+CD27+ B Cells into the Infected Vaginal Mucosa *J Immunol*. 2023 Jul 1; 211(1)::118-129. doi: 10.4049/jimmunol.2300093; PMID: 37222480; PMC10330291

70. **Prakash S**, Dhanushkodi NR, Zayou L, Ibraim IC, Quadiri A, Coulon PG, Tifrea DF, Suzler B, Amin M, Chilukuri A, Edwards RA, Vahed H, Nesburn AB, Kuppermann BD, Ulmer JB, Gil D, Jones TM, BenMohamed L. Cross-Protection Induced by Highly Conserved Human B, CD4(+,) and CD8(+) T Cell Epitopes-Based Coronavirus Vaccine Against Severe Infection, Disease, and Death Caused by Multiple SARS-CoV-2 Variants of Concern *bioRxiv* [Preprint]. 2023 May 24;. doi: 10.1101/2023.05.24.541850; PMID: 37292861; PMC10245830

69. Dhanushkodi NR, **Prakash S**, Quadiri A, Zayou L, Singer M, Takashi N, Vahed H, BenMohamed L. High Frequencies of Antiviral Effector Memory T(EM) Cells and Memory B Cells Mobilized into Herpes Infected Vaginal Mucosa Associated With Protection Against Genital Herpes *bioRxiv* [Preprint]. 2023 May 24;. doi: 10.1101/2023.05.23.542021; PMID: 37292784; PMC10245907

68. Prasad N, Yadav B, **Prakash S**, Yadav D, Singh A, Gautam S, Bhadauria D, Kaul A, Patel MR, Behera MR, Kushwaha RS, Yachha M. Association of Human Leucocyte Antigen Polymorphism with Coronavirus Disease 19 in Renal Transplant Recipients *Vaccines (Basel)*. 2022 Oct 30; 10(11). doi: 10.3390/vaccines10111840; PMID: 36366349; PMC9697220

67. Srivastava R, Dhanushkodi N, **Prakash S**, Coulon PG, Vahed H, Zayou L, Quadiri A, BenMohamed L. High Frequencies of Phenotypically and Functionally Senescent and Exhausted CD56(+)CD57(+)PD-1(+) Natural Killer Cells, SARS-CoV-2-Specific Memory CD4(+) and CD8(+) T cells Associated with Severe Disease in Unvaccinated COVID-19 Patients *bioRxiv* [Preprint]. 2022 Jul 27;. doi: 10.1101/2022.07.26.501655; PMID: 35923316; PMC9347283

66. Chentoufi AA, Dhanushkodi NR, Srivastava R, **Prakash S**, Coulon PA, Zayou L, Vahed H, Chentoufi HA, Hormi-Carver KK, BenMohamed L. Combinatorial Herpes Simplex Vaccine Strategies: From Bedside to Bench and Back *Front Immunol*. 2022; 13::849515. doi: 10.3389/fimmu.2022.849515; PMID: 35547736; PMC9082490

65. Dhanushkodi NR, **Prakash S**, Srivastava R, Coulon PA, Arellano D, Kapadia RV, Fahim R, Suzer B, Jamal L, Vahed H, BenMohamed L. Antiviral CD19(+)CD27(+) Memory B Cells Are Associated with Protection from Recurrent Asymptomatic Ocular Herpesvirus Infection *J Virol*. 2022 Mar 9; 96(5)::e0205721. doi: 10.1128/jvi.02057-21; PMID: 34985998; PMC8906405

64. Dhanushkodi N, **Prakash S**, Srivastava R, Coulon PGA, Vahed H, Zayou L, Quadiri A, Schaefer H, BenMohamed L. A Prime/Pull RR2/CXCL11 Therapeutic Vaccine that Bolsters the Number and Function of Dorsal Root Ganglia Tissue-Resident HSV-Specific CD8+ TRM Cells Protects Latently Infected Guinea Pigs from Recurrent Genital Herpes *bioRxiv* [Preprint]. 2022. doi: 10.1101/2022.07.22.501208

63. Dhanushkodi NR, Srivastava R, Coulon PA, **Prakash S**, Roy S, Bagnol D, David ED, BenMohamed L. Healing of Ocular Herpetic Disease Following Treatment With an Engineered FGF-1 Is Associated With Increased Corneal Anti-Inflammatory M2 Macrophages *Front Immunol*. 2021; 12::673763. doi: 10.3389/fimmu.2021.673763; PMID: 34054858; PMC8158292

62. **Prakash S**, Srivastava R, Coulon PG, Dhanushkodi NR, Chentoufi AA, Tifrea DF, Edwards RA, Figueroa CJ, Schubl SD, Hsieh L, Buchmeier MJ, Bouziane M, Nesburn AB, Kuppermann BD, BenMohamed L. Genome-Wide B Cell, CD4(+), and CD8(+) T Cell Epitopes That Are Highly Conserved between Human and Animal Coronaviruses, Identified from SARS-CoV-2 as Targets for Preemptive Pan-Coronavirus Vaccines *J Immunol*. 2021 Jun 1; 206(11)::2566-2582. doi: 10.4049/jimmunol.2001438; PMID: 33911008; PMC8722450

61. Vipin VP, Zaidi G, Watson K, G Colman P, **Prakash S**, Agrawal S, Bhatia V, Dabadghao P, Bhatia E. High prevalence of idiopathic (islet antibody-negative) type 1 diabetes among Indian children and adolescents *Pediatr Diabetes*. 2021 Feb; 22(1)::47-51. doi: 10.1111/pedi.13066; PMID: 32558116

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