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**Manu Rangachari,Nathalie
Arbour,Steven M Kerfoot,Jorge I
Alvarez**

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Lymphocytes in MS and EAE: More than just a CD4+ World Manu Rangachari, Nathalie Arbour, Steven M Kerfoot, Jorge I Alvarez, 2017-10-10 Multiple sclerosis is degenerative disease of the central nervous system CNS in which myelin destruction and axon loss leads to the accumulation of physical cognitive and mental deficits MS affects more than a million people worldwide and managing this chronic disease presents a significant health challenge Multiple lines of evidence indicate that MS is an autoimmune disorder in which immune cells launch an inflammatory attack targeting myelin antigens Indeed myelin reactive T cells and antibodies have been identified in MS patients and in animal models namely experimental autoimmune encephalomyelitis or EAE that recapitulate many features of human disease Animal model studies have demonstrated that T cells are both necessary and sufficient to initiate and sustain CNS autoimmunity However most MS animal models rely on the role played by CD4 T cells and partially replicate the multiple aspects of MS pathogenesis Thus research in the past has focused heavily on the contribution of CD4 T cells to the disease process searching PubMed for MS AND CD4 yields twice the results as corresponding searches for CD8 or B cell and four times that for NK cells While CD4 T cells may represent the minimum requirement to mediate CNS autoimmunity it is clear that the immune response underlying human MS is far more complex and involves numerous other immune cells and subsets This is well illustrated by the observation that MS patients treated with an anti CD4 depleting antibody did not gain any clinical benefits whereas removal of several lymphocyte subsets using an anti CD52 depleting antibody has been shown to impede disease progression In particular the pathogenic role s of non CD4 T cell lymphocytes is relatively poorly understood and under researched despite evidence that these subsets contribute to disease pathology or regulation For example the observed oligoclonal expansion of CD8 T cells within the CNS compartment supports a local activation CD8 T cells with polarized cytolytic granules are seen in close proximity to oligodendrocytes and demyelinated axons in MS tissues The presence of B cells in inflammatory lesions and antibodies in the CSF have long been recognized as features of MS and Rituximab a B cell depleting therapy has been shown to be highly effective to treat MS Intriguingly the putative MS therapeutic reagent Daclizumab may function in part through the expansion of a subset of immunoregulatory NK cells NKT and T cells may also play a role in CNS autoimmunity given that they respond to lipid antigens and that myelin is lipid rich While different animal models recapitulate some of these aspects of human disease identifying appropriate models and measures to investigate the role of these less well understood lymphocytes in MS remains a challenge for the field This Frontiers research topic aims to create a platform for both animal and human focused researchers to share their original data hypotheses future perspectives and commentaries regarding the role of these less well understood lymphocyte subsets CD8 T cells B cells NK cells NK T cells T cells in the pathogenesis of CNS autoimmunity [Climatological Data](#) United States. Weather Bureau, 1956 **Spatial Modeling of Environmental Pollution and Ecological Risk** Pravat Kumar Shit, Dilip Kumar Datta, Biswajit Bera, Aznarul Islam, Partha

Pratim Adhikary,2023-12-01 Spatial Modeling of Environmental Pollution and Ecological Risk provides valuable information and insights for researchers students and professionals in geography hydrology sedimentology soil science agriculture engineering and GIS as they face increasingly complex challenges around development strategies for a sustainable society Written by the world s leading researchers in their field each article will begin with a short introductory essay that includes an overview of the sections papers Individual chapters focus on the core themes of research and knowledge and some topics that have received lesser attention Each chapter will review the current understanding of knowledge regarding the present study and scope and consider where future efforts should be directed Discusses issues at the forefront of present research in environmental science bioscience ecology pedogeomorphology landscape geoscience forestry hydrology and GIS Explores state of art techniques based on methodological and modeling in modern Deep learning and Machine learning geospatial techniques through case studies Describes novel control strategies remediation and eco restoration and conservation techniques for sustainable development Microbial Diversity and Resources in Tidal Flats Xue-Wei Xu,Feng-Yan Bai ,Gaëtan Burgaud,2024-06-06 Tidal flats are widely distributed worldwide occupying at least 127 921 km² of which 70% are located in coastal areas of Asia and North and South America As a confluence of terrestrial and marine ecosystems tidal flat is dually influenced by these two ecosystems and becomes one of the most productive ecosystems Rhythmic changes of environmental factors e g salinity temperature dissolved oxygen illumination intensity ocean current etc and frequent disturbances of human behaviour enhance organic matter as well as nitrogen phosphorus and sulfur compounds in tidal flats Furthermore tidal flats have various important ecosystem functions including climate regulation shoreline stabilization carbon fixation pollutant degradation etc **Climatological Data for the United States by Sections** United States. Weather Bureau,1950-06 Collection of the monthly climatological reports of the United States by state or region with monthly and annual National summaries *Climatological Data, Florida* United States. Environmental Data Service,1949 *Climatological Data for the United States by Sections* , Collection of the monthly climatological reports of the United States by state or region with monthly and annual national summaries **Climatological Data** ,1971 *Outsmarting the Host: How Bacterial Pathogens Modulate Immune Responses in The Lung* Gee W. Lau,Charles S. Dela Cruz,Michael Borchers,2021-03-22 *Translational Research in Thyroid Cancer* Vasyl Vasko,Electron Kebebew,Sheue-Yann Cheng,Kirk Ernest Jensen,2020-06-05

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