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Author: Sailesh C. Harwani

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Title: Macrophages Under Pressure: The Role of Macrophage Polarization in Hypertension

Author: Sailesh C. Harwani, MD, PhD^{1,2,3}

Affiliations: ¹ Department of Internal Medicine, 200 Hawkins Dr., Iowa City, IA, US, 52242.

² Center for Immunology and Immune Based Diseases, 2193 MERF, Iowa City, IA, US, 52242.

and ³ Abboud Cardiovascular Research Center, 2269 CBRB, Iowa City, IA, US 52242

sailesh-harwani@uiowa.edu

Corresponding Author: Sailesh C. Harwani, MD, PhD

University of Iowa, Carver College of Medicine, Department of Internal Medicine, Division of Cardiovascular Diseases

501 Newton Rd., 616B MRC, Iowa City, IA, 52242

Phone: 319-335-6982

Fax: 319-335-6969

Email: sailesh-harwani@uiowa.edu

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Abbreviations:

IFN- γ = interferon-gamma; IL-1b = interleukin-1 beta; IL-2 = interleukin-2; IL-4 = interleukin-4; IL-6 = interleukin-6; IL-8 = interleukin-8; IL-10 = interleukin-10; IL-12 = interleukin-12; IL-13 = interleukin-13; IL-17 = interleukin-17; IL-18 = interleukin-18; IL-23 = interleukin-23; TNF- α = tumor necrosis alpha; Ang II = angiotensin II; AT1R = angiotensin type 1 receptor; AT2R = angiotensin type 2 receptor; nAChR = nicotinic acetylcholine receptor; AR = adrenergic receptor; TLR = toll-like receptor; iNOS = inducible nitric oxide synthase; eNOS = endothelial nitric oxide synthase; nNOS = neuronal nitric oxide synthase; RAG=Recombination activating gene; DTR = Diphtheria toxin receptor; NO = nitric oxide; ROS = reactive oxygen species; TAM = tumor associated macrophages; MHC-II = major histocompatibility complex II; VEGF = vascular endothelial growth factor; TGF- β = tumor growth factor-beta; SHR = Spontaneously Hypertensive Rats; WKY = Wistar Kyoto; NK = Natural Killer Cell; LLT1 = lectin like transcript 1; PPAR- γ = peroxisome proliferator-activated receptor-gamma; m-CSF = monocyte colony stimulating factor; PRR = pathogen-recognition receptor; PAMPs = pathogen-associated molecular patterns; DAMPs = danger associated molecular patterns; CNS = Central Nervous System; PNS = parasympathetic nervous system; SNS = sympathetic nervous system; α 7-nAChR = alpha7-nicotinic acetylcholine receptor; klf4 = kruppel-like factor 4; BBB = Blood-Brain Barrier; CP = Choroid Plexus; DC = dendritic cells; CVO = circumventricular organs; OVLT = organum vasculosum lamina terminalis; SFO = subfornical organs; AP = area postrema; PVN = paraventricular nucleus; RVLM = rostroventrolateral medulla; AV3V = anteroventral third ventricle; SCO = subcommissural organ; NTS = nucleus tractus solitarius; RAAS = renin-angiotensin-aldosterone system; MCP-1 = monocyte chemoattractant protein-1; TONEBP = tonicity-enhancer binding protein; CRP = C-reactive protein; ICAM-1 = intercellular adhesion molecule – 1; PBMC = peripheral blood monocytes; LPS = lipopolysaccharide; ACE = angiotensin converting enzyme;

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