Employment
Senior Scientist & Head of Department
Microbiology and Immunology
Dasman Diabetes Institute
Kuwait
24 Sep 2009 → present

Research outputs

**Increased Adipose Tissue Expression of Interferon Regulatory Factor (IRF)-5 in Obesity: Association with Metabolic Inflammation**

**Acsl1 regulates tnfα-induced gm-csf production by breast cancer mda-mb-231 cells**

**TNF-α in Combination with Palmitate Enhances IL-8 Production via The MyD88- Independent TLR4 Signaling Pathway: Potential Relevance to Metabolic Inflammation.**

**Association between Adipose Tissue Interleukin-33 and Immunometabolic Markers in Individuals with Varying Degrees of Glycemia**

**TNF-α Drives the CCL4 Expression in Human Monocytic Cells: Involvement of the SAPK/JNK and NF-κB Signaling Pathways.**

**Adipose tissue expression of CCL19 chemokine is positively associated with insulin resistance**

**MIP-1α Induction by Palmitate in the Human Monocytic Cells Implicates TLR4 Signaling Mechanism**

**Oxidative stress induces expression of the toll-like receptors (TLRs) 2 and 4 in the human peripheral blood mononuclear cells: Implications for metabolic inflammation**
TNF-α Induces a Pro-Inflammatory Phenotypic Shift in Monocytes through ACSL1: Relevance to Metabolic Inflammation

NFAT5 is directly correlated with IL-33 and ST2 in the adipose tissue of individuals with normal glycemia but not prediabetes

TLR4/MyD88-mediated CCL2 production by lipopolysaccharide (endotoxin): Implications for metabolic inflammation

The synergy between palmitate and TNF-α for ccl2 production is dependent on the trlf/irf3 pathway: implications for metabolic inflammation

Palmitate Activates CCL4 Expression in Human Monocytic Cells via TLR4/MyD88 Dependent Activation of NF-κB/MAPK/PI3K Signaling Systems

Increased expression of the innate immune receptor TLR10 in obesity and type-2 Diabetes: Association with ROS-mediated oxidative stress

Identification of an acid sphingomyelinase ceramide kinase pathway in the regulation of the chemokine CCL5

Adipose tissue IL-33 is differentially associated with HbA1c in overweight / obese individuals with different degrees of glucose homeostasis

Pam3CSK4 induces MMP-9 expression in human monocytic THP-1 cells

Increased circulatory levels of fractalkine (CX3CL1) are associated with inflammatory chemokines and cytokines in individuals with type-2 diabetes

Increased adipose tissue expression of IL-18R and its Ligand IL-18 associates with inflammation and insulin resistance in obesity

Increased adipose tissue expression of TLR8 in obese individuals with or without type-2 diabetes: Significance in metabolic inflammation
Ahmad, R., Kchumon, S., Thomas, R., Atizado, V. & Sindhu, S., 8 Dec 2016, In : Journal of Inflammation (United Kingdom). 13, 1, 38.
Erratum to: ‘Differential association of plasma monocyte chemoattractant protein-1 with systemic inflammatory and airway remodeling biomarkers in type-2 diabetic patients with and without asthma’ [J Diabetes Metab Disord., 15, (2016) (40)]

Differential association of plasma monocyte chemoattractant protein-1 with systemic inflammatory and airway remodeling biomarkers in type-2 diabetic patients with and without asthma

Plasma fetuin-A/α2-HS-glycoprotein correlates negatively with inflammatory cytokines, chemokines and activation biomarkers in individuals with type-2 diabetes
Sindhu, S., Akhter, N., Shenouda, S., Wilson, A. & Ahmad, R., 26 Sep 2016, In : BMC Immunology. 17, 1, 33.

Palmitate-Induced MMP-9 Expression in the Human Monocytic Cells is Mediated through the TLR4-MyD88 Dependent Mechanism

IRF3 promotes adipose inflammation and insulin resistance and represses browning

Increased expression of the interleukin-1 receptor-associated kinase (IRAK)-1 is associated with adipose tissue inflammatory state in obesity

Obesity is a positive modulator of IL-6R and IL-6 expression in the subcutaneous adipose tissue: Significance for metabolic inflammation

TLR2 and AP-1/NF-kappaB are involved in the regulation of MMP-9 elicited by heat killed Listeria monocytogenes in human monocyctic THP-1 cells

Changes in the Adipose Tissue Expression of CD86 Costimulatory Ligand and CD163 Scavenger Receptor in Obesity and Type-2 Diabetes: Implication for Metabolic Disease.

Insight into the impact of diabetes mellitus on the increased risk of hepatocellular carcinoma: Mini-review

IL-33 is negatively associated with the BMI and confers a protective lipid/metabolic profile in non-diabetic but not diabetic subjects

FSL-1 induces MMP-9 production through TLR-2 and NF-kB/AP-1 signaling pathways in monocyctic THP-1 cells
Interaction of Osteopontin with IL-18 in Obese Individuals: Implications for Insulin Resistance

Role of Sp1 transcription factor in Interleukin-1-induced ADAMTS-4 (aggrecanase-1) gene expression in human articular chondrocytes

IL-33 is reduced in obesity: Its association with inflammation and metabolic abnormalities.

Elevated expression of the toll like receptors 2 and 4 in obese individuals: Its significance for obesity-induced inflammation

Interleukin-1 induction of aggrecanase gene expression in human articular chondrocytes is mediated by mitogen-activated protein kinases

Up-regulation of toll like receptors expression in obese individuals and their relation to insulin resistance.

Therapeutic targeting of B7-H1 in breast cancer

Involvement of H-Ras and reactive oxygen species in proinflammatory cytokine-induced matrix metalloproteinase-13 expression in human articular chondrocytes

Increased expression of TLR-2 and 4 in monocytes of obese individuals: Association with the induction and progression of insulin resistance.

Inflammatory and stress response patterns in human obese subjected to an exercise protocol.

Investigation of the cellular and molecular anti-inflammatory response in obese individuals subjected to a defined exercise protocol.

Peripheral blood mononuclear cells (PBMCs) and adipose tissue from overweight and obese individuals express significant high levels of matrix metalloproteinase.

The immunological significance of the interleukin-1 receptor-related protein ST2L and its interleukin-33 ligand in obesity and diabetes.


Ahmad, R., Sylvester, J., Ahmad, M. & Zafarullah, M., 1 Jul 2010, In : Journal of Immunology. 185, 1, 1 p. Human osteoarthritic chondrocytes are impaired in matrix metalloproteinase-13 inhibition by IFN-γ due to reduced IFN-γ receptor levels


Interaction of monocytic cells with respiratory syncytial virus results in activation of NF-κB and PKC-α/β leading to up-regulation of IL-15 gene expression

Monocyte differentiation up-regulates the expression of the lysosomal sialidase, Neu1, and triggers its targeting to the plasma membrane via major histocompatibility complex class II-positive compartments

Contribution of platelet activation to plasma IL-18 concentrations in HIV-infected AIDS patients [4]

Relationship of in vivo and ex vivo levels of T H1 and T H2 cytokines with viremia in HAART patients with and without opportunistic infections

IL-15 and HIV infection: Lessons for immunotherapy and vaccination

Host's innate immune response to fungal and bacterial agents in vitro: Up-regulation of interleukin-15 gene expression resulting in enhanced natural killer cell activity

Virus load correlates inversely with the expression of cytotoxic T lymphocyte activation markers in HIV-1-infected/AIDS patients showing MHC-unrestricted CTL-mediated lysis
Sindhu, S., Ahmad, R., Blagdon, M., Ahmad, A., Toma, E., Morisset, R. & Menezes, J., 1 Apr 2003, In : Clinical and Experimental Immunology. 132, 1, p. 120-127 8 p.

Studies on the production of IL-15 in HIV-infected/AIDS patients

Peripheral blood cytotoxic γδ T lymphocytes from patients with human immunodeficiency virus type 1 infection and AIDS lyse uninfected CD4 + T cells, and their cytotoxic potential correlates with viral load

HIV's evasion of host's NK cell response and novel ways of its countering and boosting anti-HIV immunity.

Elevated levels of circulating interleukin-18 in human immunodeficiency virus-infected individuals: Role of peripheral blood mononuclear cells and implications for AIDS pathogenesis

Modulation of expression of the MHC class I-binding natural killer cell receptors, and NK activity in relation to viral load in HIV-infected/AIDS patients
Activated human platelets express Fas-L and induce apoptosis in Fas-positive tumor cells

Evidence for a correlation between antibody-dependent cellular cytotoxicity-mediating anti-HIV-1 antibodies and prognostic predictors of HIV infection

Signaling mechanism in the induction of apoptosis by thrombin in human tumor cells [2]
Ahmad, R., Menezes, J. & Ahmad, A., 1 Dec 2000, In : Blood. 96, 12, 1 p.

Thrombin induces apoptosis in human tumor cells

Impaired induction of IL-15 in response to herpes simplex virus type 1 infection in peripheral blood mononuclear cells of HIV-infected patients

Projects

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