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|  | **Effect of obesity/T2DM on cell recruitment**  | **Potential mechanisms** | **Reference** |
| **Monocyte/****macrophage** | recruitment of macrophages in retinas of STZ-induced diabetic ratsrecruitment of macrophages in kidney of STZ-induced diabetic miceadhesion of monocyte to adipocytes in the subcutaneous adipose tissue of patients with T2DM and obesity **(Human study)**recruitment of macrophages in white adipose tissue of HFD-induced obese mice levels of F4/80 and CD11c mRNA expression in adipose tissue of HFD fed miceexpression of F4/80 in adipose tissue of HFD fed miceRPMs in db/db mice Increased M2 polarization*In vitro*  adhesion and phagocytosis capacity of RPMs from in db/db micemonocyte/macrophages in lung tissue of diabetic DPP4H/M mice following infection by *MERS-CoV*  | CCL2-CCR2 axisCCL2-CCR2 axisCX3CL1 expression in adipose tissueCCR5 expression in white adipose tissueAdipose tissue expression of ICAM-1, VCAM-1, CCL2, CXCL14Adipose tissue expression of mRNA for ICAM-1Ongoing chronic inflammation in the peritoneal cavity in db/db miceabnormal microenvironment in db/db mouse lung tissue expression of Ccl2 and Cxcl10 | (Rangasamy et al., 2014)(Tarabra et al., 2009)(Shah et al., 2011)(Kitade et al., 2012)(Kawanishi et al., 2010)(Brake et al., 2006)(Liu et al., 2012)(Liu et al., 2012)(Kulcsar et al., 2019) |
| **DCs** | CD11chighF4/80low DCs in mice visceral adipose tissue in HFD-induced obese miceCD11c+CD1c+ cDCs in obese human subcutaneous adipose tissue**(Human study)**CD11c+ cDCs numbers in the adipose tissue of HFD-fed mice | Not describedNot describedNot described | (Bertola et al., 2012).(Bertola et al., 2012).(Chen et al., 2014) |
| **Neutrophils** |  trafficking of neutrophil into mice visceral adipose tissue after 3 days on HFDrecruitment of neutrophils into the adipose tissue of HFD-fed mice after 3 days on HFD (sustained infiltration for up to 90 days on HFD) | CD11b surface expression on neutrophilsexpression and activity of neutrophil-secreted elastase in the adipose tissue of HFD‐fed mice | (Elgazar-Carmon et al., 2008)(Talukdar et al., 2012) |
| **CD8+ T-cells** | infiltrated CD8+ effector T-cells in visceral adipose tissue in HFD-fed micelower numbers of CD8+ T-cells in their brains in *db/db* mice following infection with *West Nile virus* | Activation of CD8+T cells by endogenous stimuli localized in the adipose tissue expression of E-selectin and ICAM-1 in *db/db* brains | (Nishimura et al., 2009).(Kumar et al., 2014) |
| **CD4+ T-cells** |  CD4+ T-cells in lung tissue of diabetic DPP4H/M mice following infection by *MERS-CoV*  |  lung tissue expression of Ccl2 and Cxcl10  | (Kulcsar et al., 2019) |
| **Tregs** |  regulatory T-cells in visceral adipose tissue of HFD-fed miceCD4+ Tregs HFD-fed mice  | Not describedlevels of adiponectin in obese fat | (Nishimura et al., 2009).(Feuerer et al., 2009; Ilan et al., 2010). |
| **B-cells** | number of B-cells in the bone marrow of HFD-fed micenumber of B-cells in the bone marrow of HFD-fed mice | Not describedlower expression of Pax5 in the bone marrow of HFD-fed mice | (Trottier et al., 2012)(Chan et al., 2012) |
| **Granulocytes** | granulocytes in the alveolar airspace of stz-induced diabetic mice following infection by *Klebsiella pneumoniae*  |  levels of (CXCL1, CXCL2) and (IL-1β, TNFα) in lung tissue | (Martinez et al., 2016) |