

ANGIOGENESIS: **Induced**

VEGF and
Hif-1 induced
eNOS and eNO
dysfunction

PROANGIOGENIC (Vascular Paradox)

ARTERIOGENESIS: **Impaired**

Increased PAI-1
Impaired monocyte migration
Dysfunction of eNOS and eNO

PROINFLAMMATORY

Monocyte → Macrophage
MCP-1 (RS) NFkappaB

PRO OX-REDOX STRESS

ROS: a driving force

ATHEROSCLEROPATHY

MS, PD, T2DM
ADIPOCYTE: OBESITY
IL-1, IL-6, TNF alpha,
hs CRP, PAI-1

PROFIBROTIC

Remodeling:
Redox sensitive (RS): MMPs
vSMC

PROTHROMBOTIC

Hyperactive platelet
^ Tissue Factor
^ PAI-1