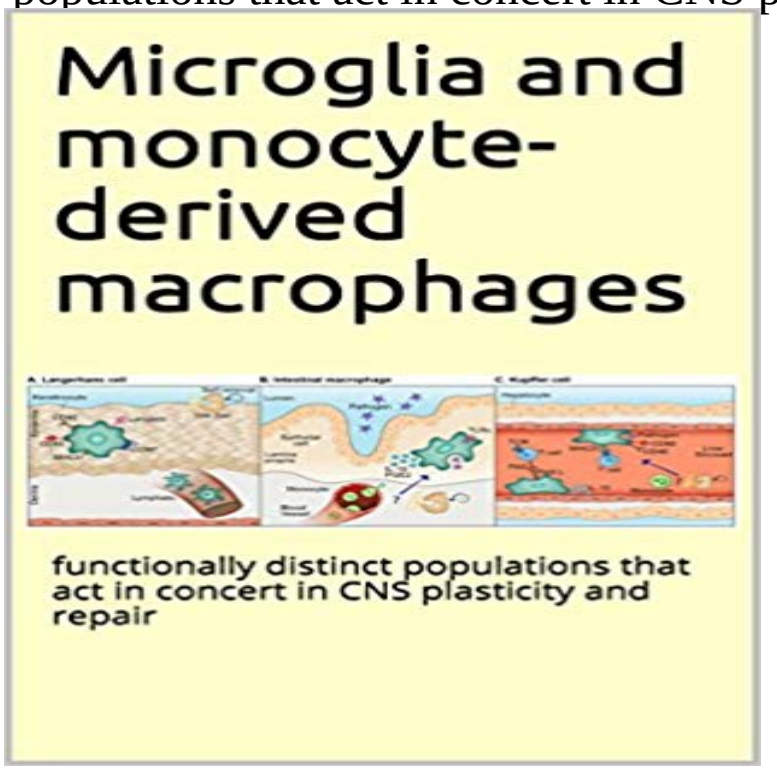
Microglia and monocyte-derived macrophages: functionally distinct populations that act in concert in CNS plasticity and repair



Functional macrophage heterogeneity is recognized outside the central nervous system (CNS), where alternatively activated macrophages can perform immune-resolving functions. Such functional heterogeneity was largely ignored in the CNS, with respect to the resident microglia and the myeloid-derived cells recruited from the blood following injury or disease, previously defined as blood-derived microglia; both were indistinguishably perceived detrimental. Our studies have led us to view the myeloid-derived infiltrating cells as functionally distinct from the resident microglia, and accordingly, to name them monocyte-derived macrophages (mo-M?). Although microglia perform various maintenance and protective roles, under certain conditions when they can no longer provide protection, mo-M? are recruited to the damaged CNS; there, they act not as microglial replacements but rather assistant cells, providing activities that cannot be timely performed by the resident cells. Here, we focus on the functional heterogeneity of microglia/mo-M?, emphasizing that, as opposed to the mo-M?, microglia often fail to timely acquire the phenotype essential for CNS repair.

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Microglia are the phagocytic glial cells of the mammalian CNS (Doherty et al., 2009). distinct populations that act in concert in CNS plasticity and repair. **The resolution of neuroinflammation in neurodegeneration** Tissue-resident macrophages are a heterogeneous population of immune Microglia are primarily derived from cells in the yolk sac, while the origin of how functionally distinct the latter populations are from monocytes is unclear. distinct populations that act in concert in CNS plasticity and repair. **Microglia and monocyte-derived macrophages: functionally distinct Neuroprotective Therapy for Stroke and Ischemic Disease - Google Books Result** Finally, we propose that functional dysregulation of the CP reflects a common underlying . The microglia, which originate from the yolk sac (Ginhoux et al, 2010), Evidence for a role of monocyte-derived macrophages in response to distinct populations that act in concert in CNS plasticity and repair. **????:??????????? ???????? : Nature** Tissue-resident macrophages are a heterogeneous population of immune cells that fulfill . 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