Role of mastcells in chronic inflammation, depression and pain

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MCs are the real conductor of the inflammatory process. In CPP, MCs are the maintaining contributor of chronic inflammation, leading to the shift between nociceptive and neuropathic pain.

The significant increase of inflammatory molecules flooding the brain during different illnesses associated with pain may contribute to the associated depressive state through a biological pathway (re-enforcing the psychological depressive status usually associated with organic diseases).

New therapeutic strategies should consider reduction of agonists and/or using drugs ("antagonists") that can down-regulated the release of pro-inflammatory, angiogenic and neurotrophic factors from the mastcells.