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Functional Medicine

**QUOTE GM #01**

**30/01/17**

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## **AGE-RELATED MACULAR DEGENERATION LINKED TO GUT DYSBIOSIS**

EMBO Mol Med. 2016 Dec 1;8(12):1366-1379. doi: 10.15252/emmm.201606531.

**Gut microbiota influences pathological angiogenesis in obesity-driven choroidal neovascularization.**

Andriessen EM<sup>1</sup>, Wilson AM<sup>2</sup>, Mawambo G<sup>3</sup>, Deida A<sup>3,4</sup>, Miloudi K<sup>5</sup>, Sennlaub F<sup>6</sup>, Sapieha P<sup>7,3,4,5</sup>.

“Age-related macular degeneration in its neo-vascular form (NV AMD) is the leading cause of vision loss among adults above the age of 60. Epidemiological data suggest that in men, overall abdominal obesity is the second most important environmental risk factor after smoking for progression to late-stage NV AMD. (...) Gut dysbiosis leads to heightened intestinal permeability and chronic low-grade inflammation characteristic of inflammaging with elevated production of IL-6, IL-1 $\beta$ , TNF- $\alpha$ , and VEGF-A that ultimately aggravate pathological angiogenesis.”