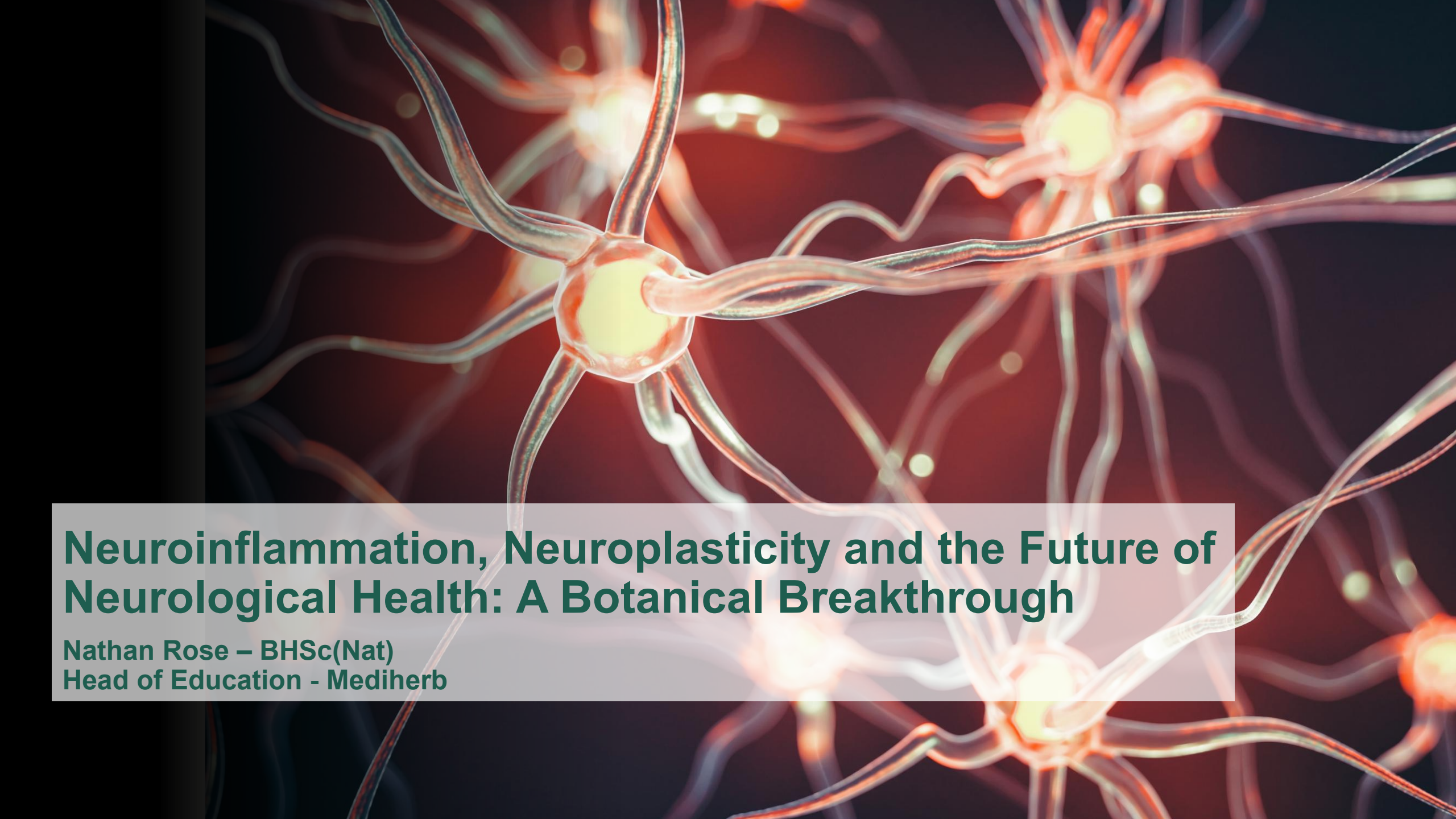




Neuroinflammation, Neuroplasticity and the Future of Neurological Health: A Botanical Breakthrough

**Nathan Rose – BHSc(Nat)
Head of Education - Mediherb**



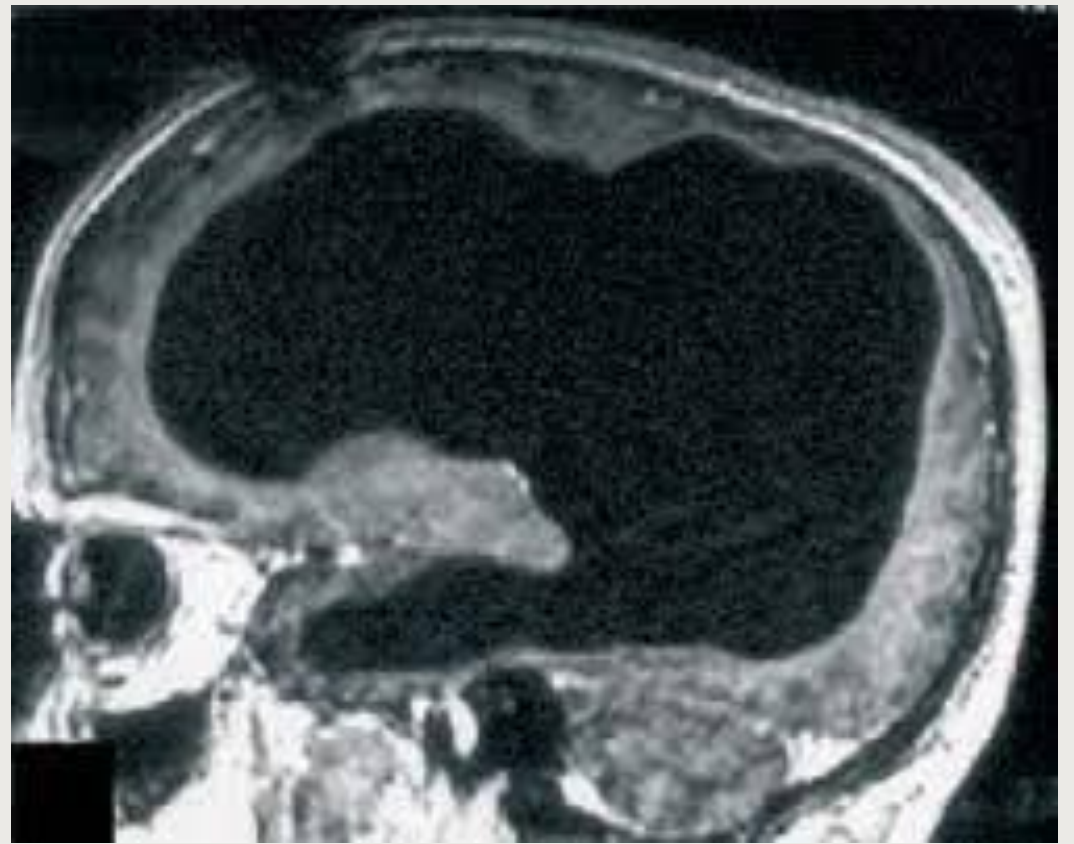
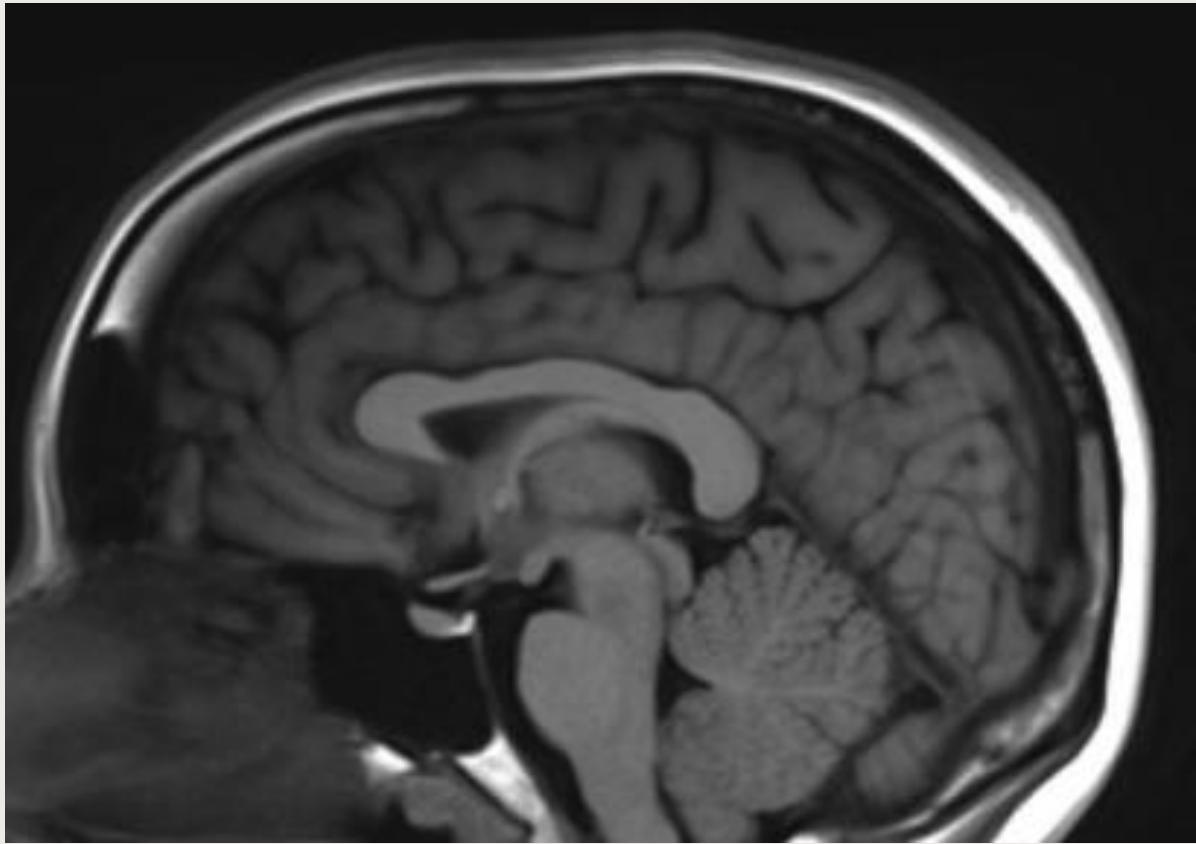
Clinical Picture

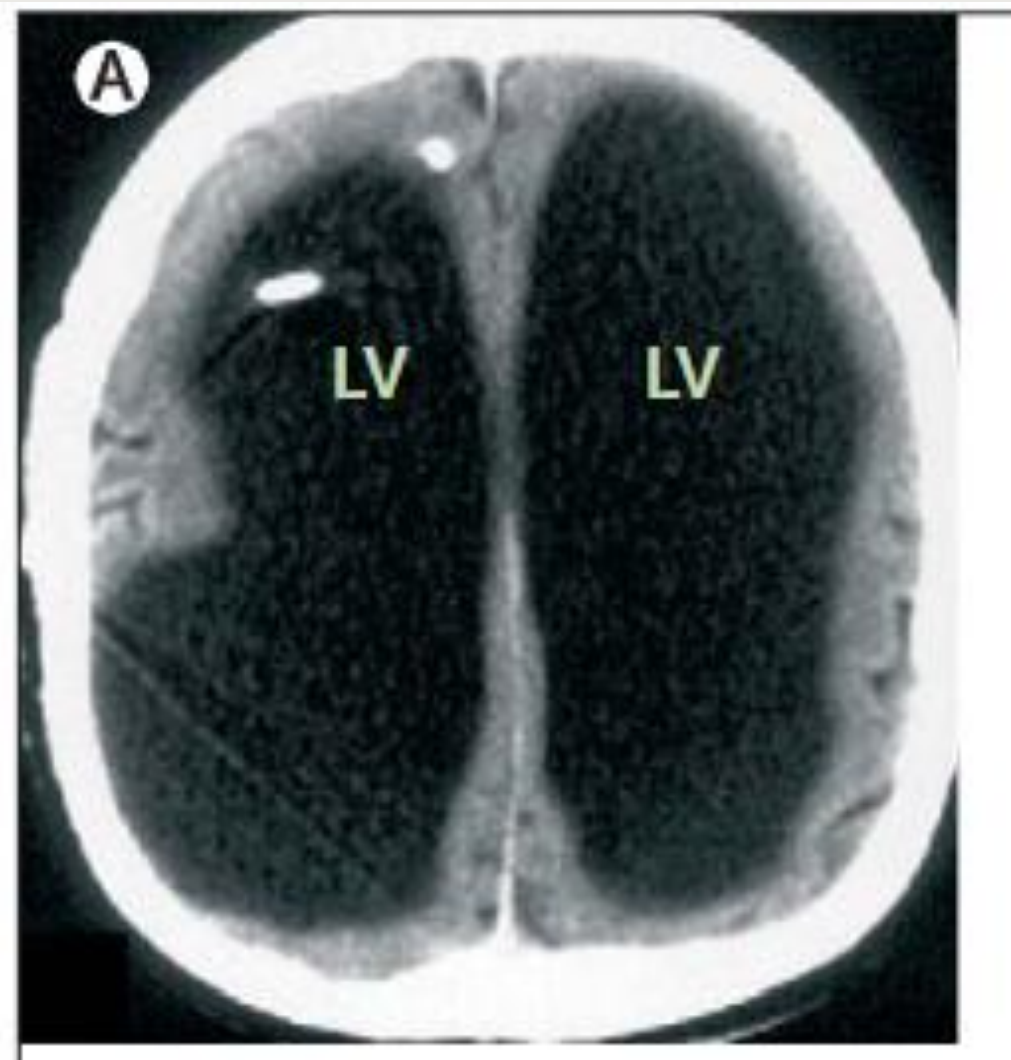
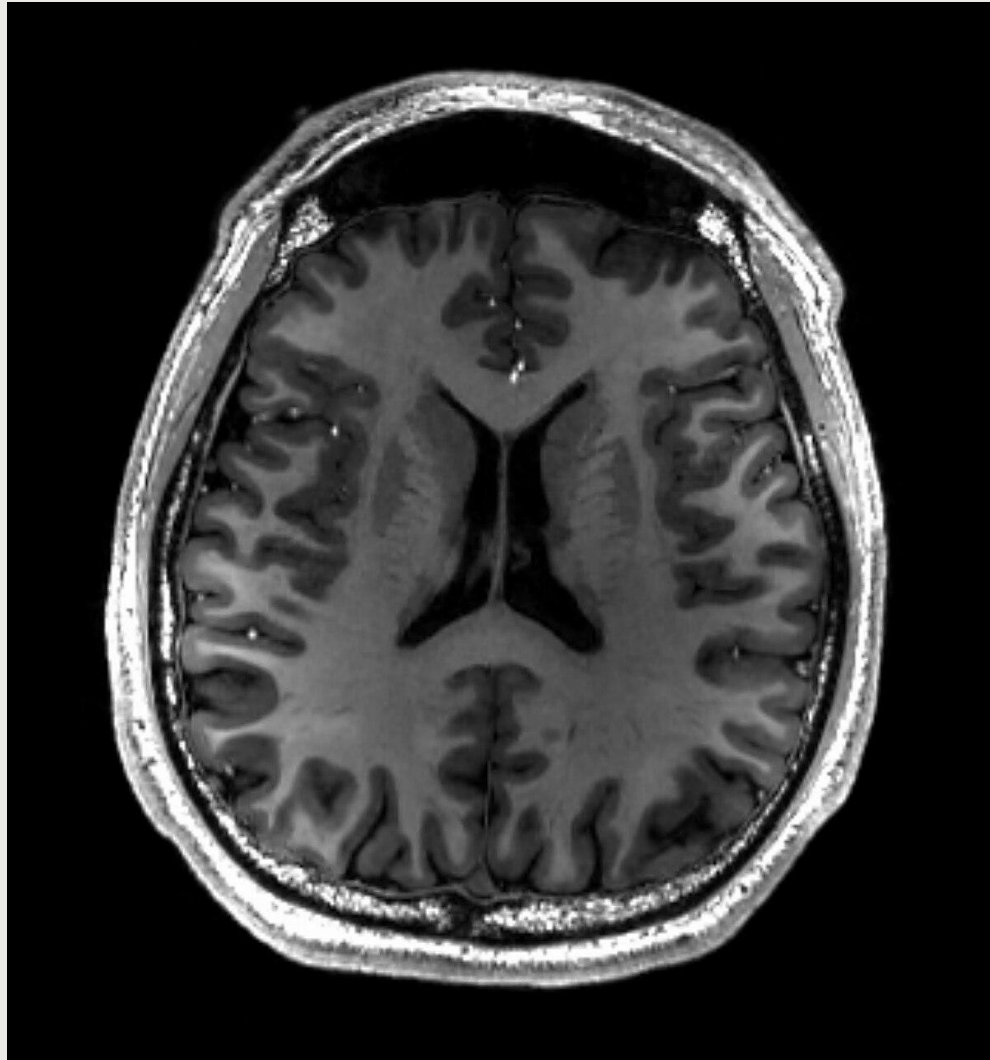
Brain of a white-collar worker

Lionel Feuillet, Henry Dufour, Jean Pelletier

Lancet 2007; 370: 262 A 44-year-old man presented with a 2-week history of

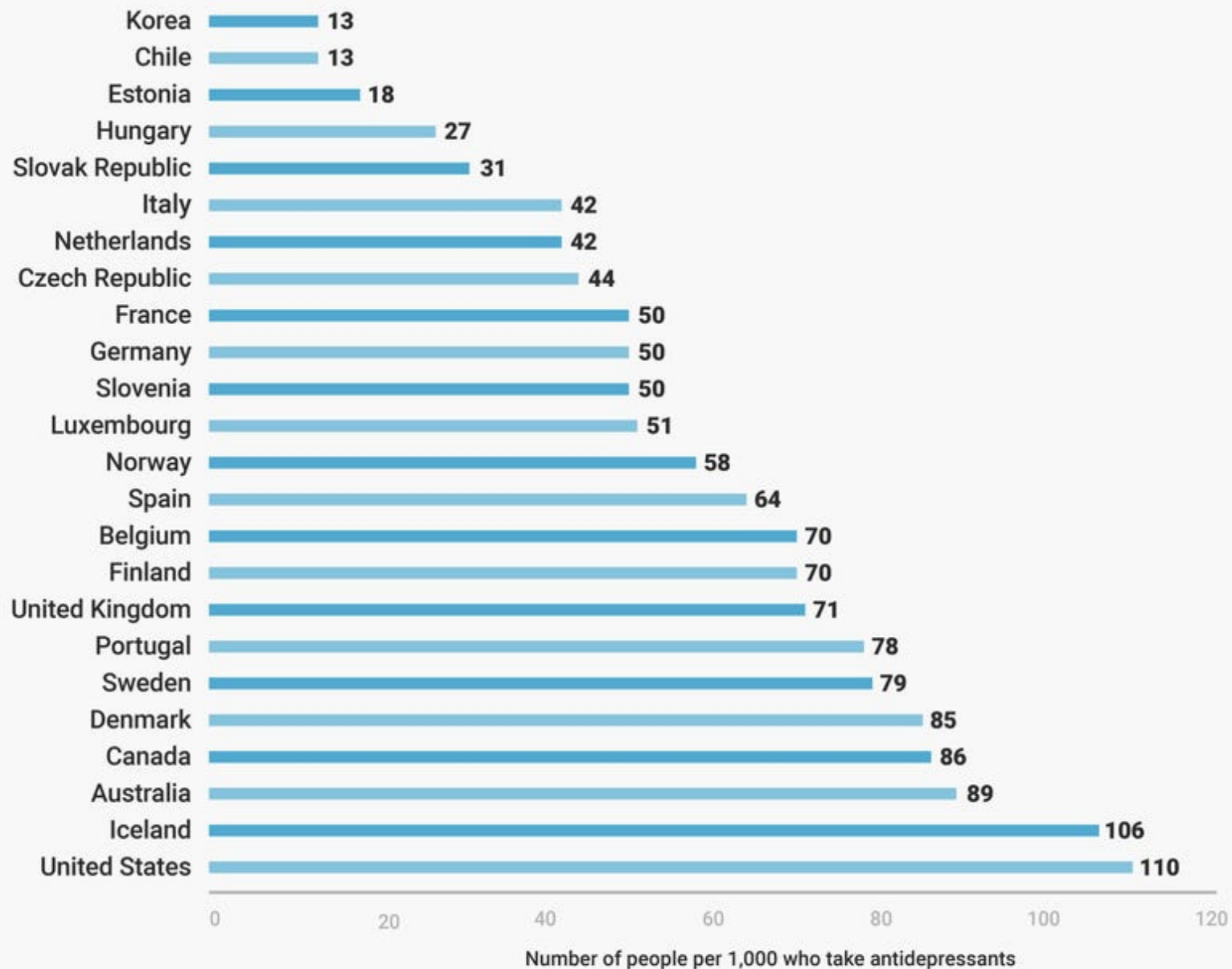
A



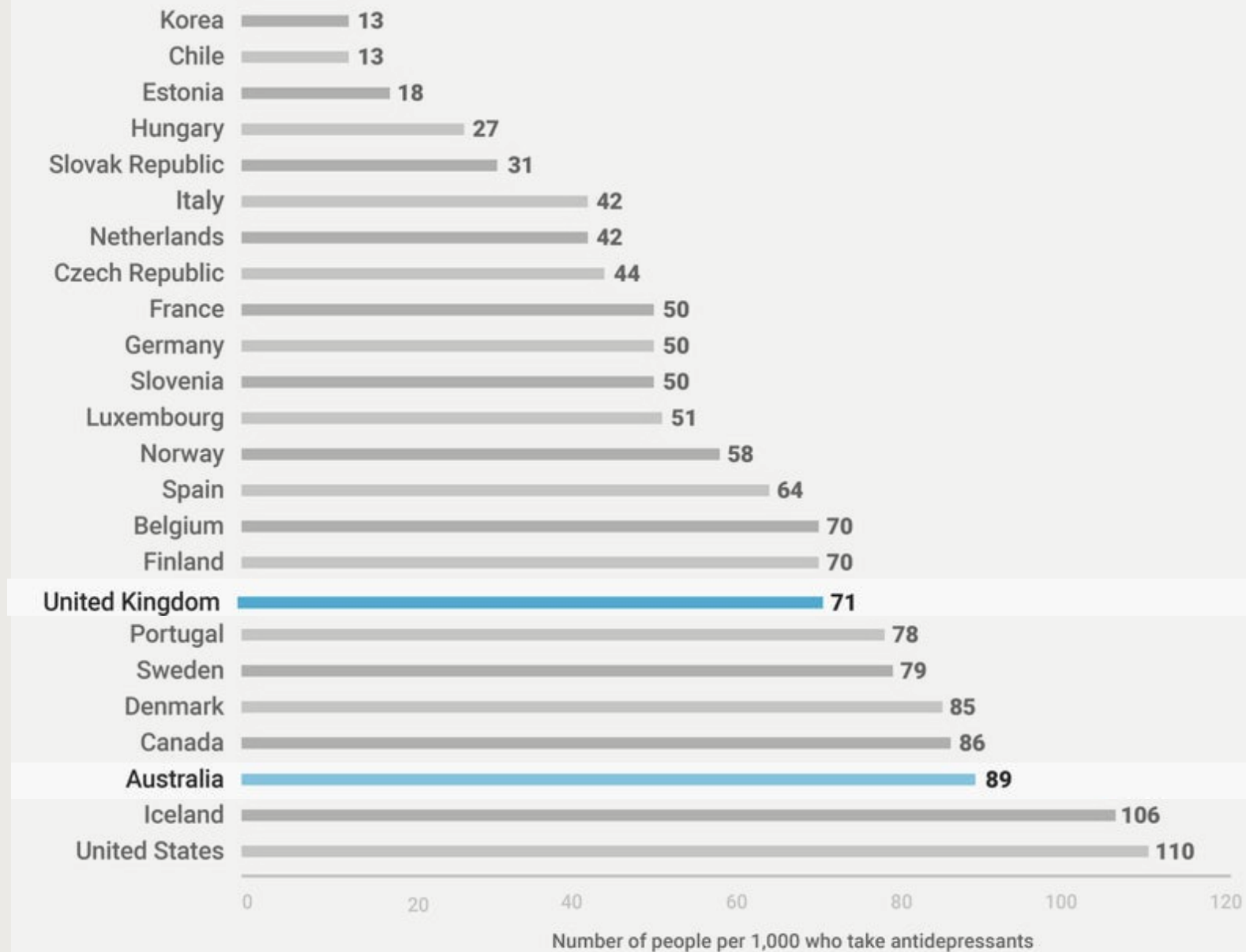


Feuillet L, Dufour H, Pelletier J. Brain of a white-collar worker. The Lancet. 2007 Jul 21;370(9583):262.

GLOBAL ANTIDEPRESSANT USERS PER 1,000 PEOPLE



GLOBAL ANTIDEPRESSANT USERS PER 1,000 PEOPLE



[illegible]

[illegible]

Inflammation induces depression

This Issue

Article

September 1987

Psychiatric Complications of Long-term Interferon Alfa Therapy

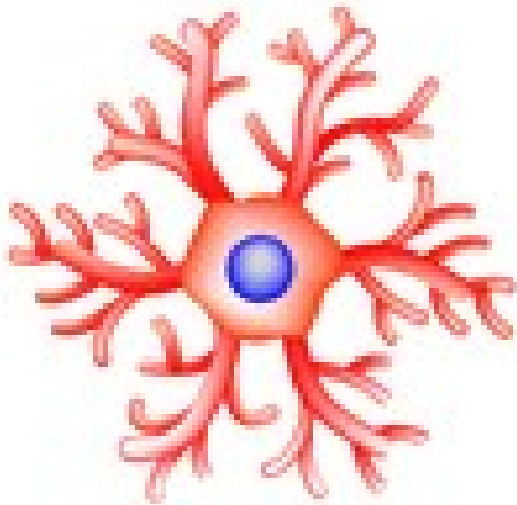
Pierre F. Renault, MD; Jay H. Hoofnagle, MD; Yoon Park, RN; [et al](#)

» [Author Affiliations](#)

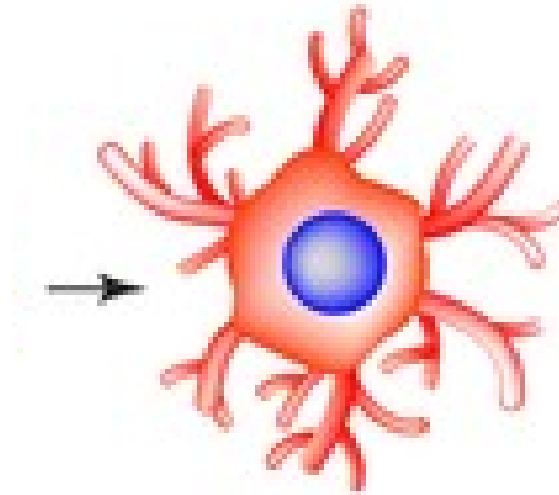
Arch Intern Med. 1987;147(9):1577-1580. doi:10.1001/archinte.1987.00370090055011

Abstract

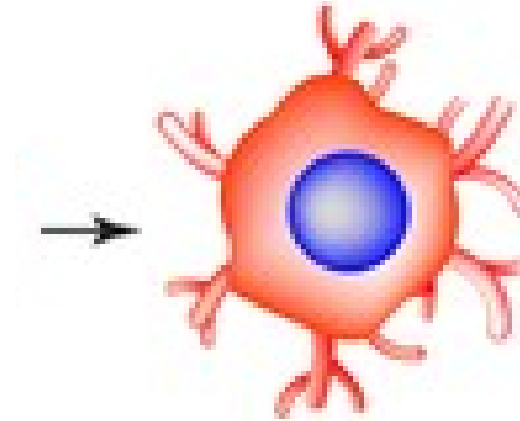
Microglial activation



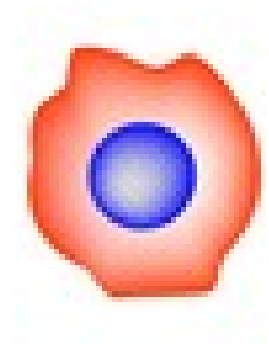
Microglial activation



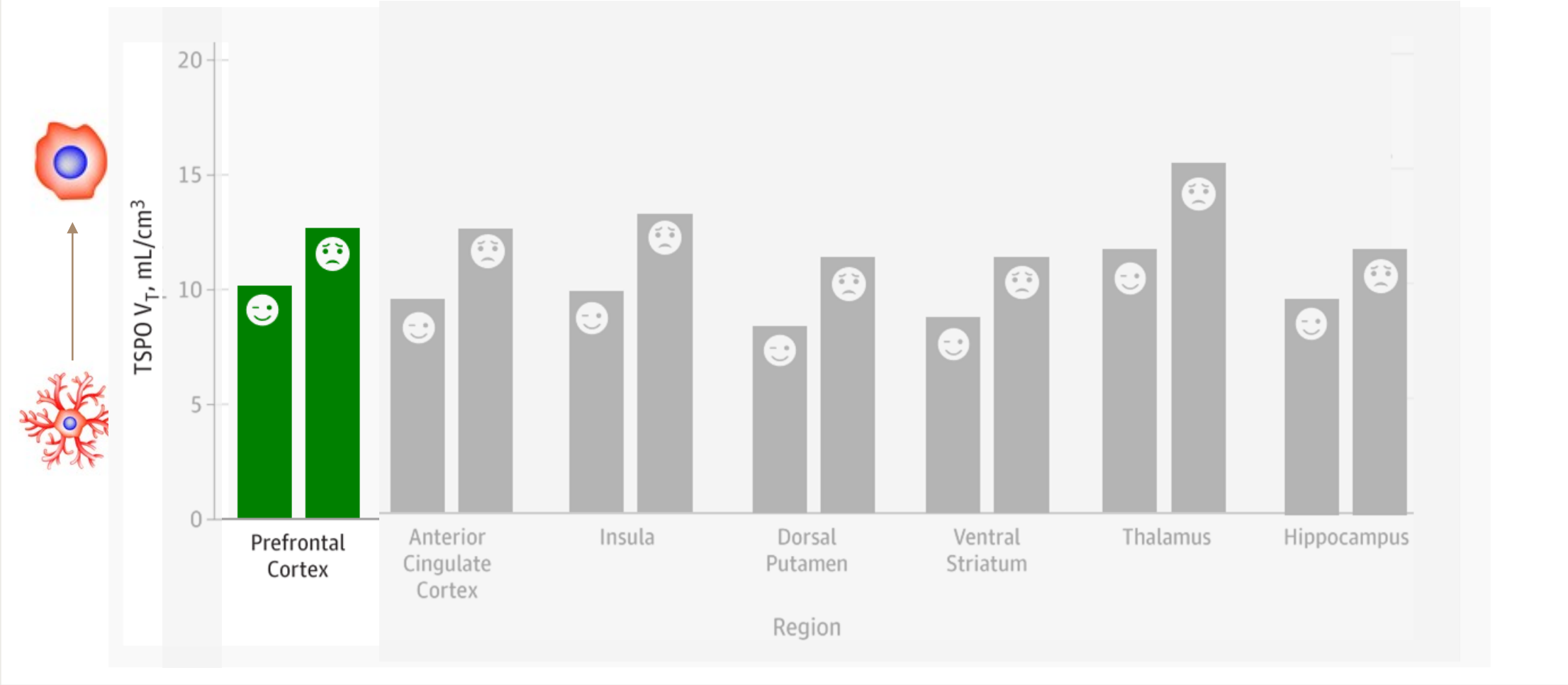
Microglial activation



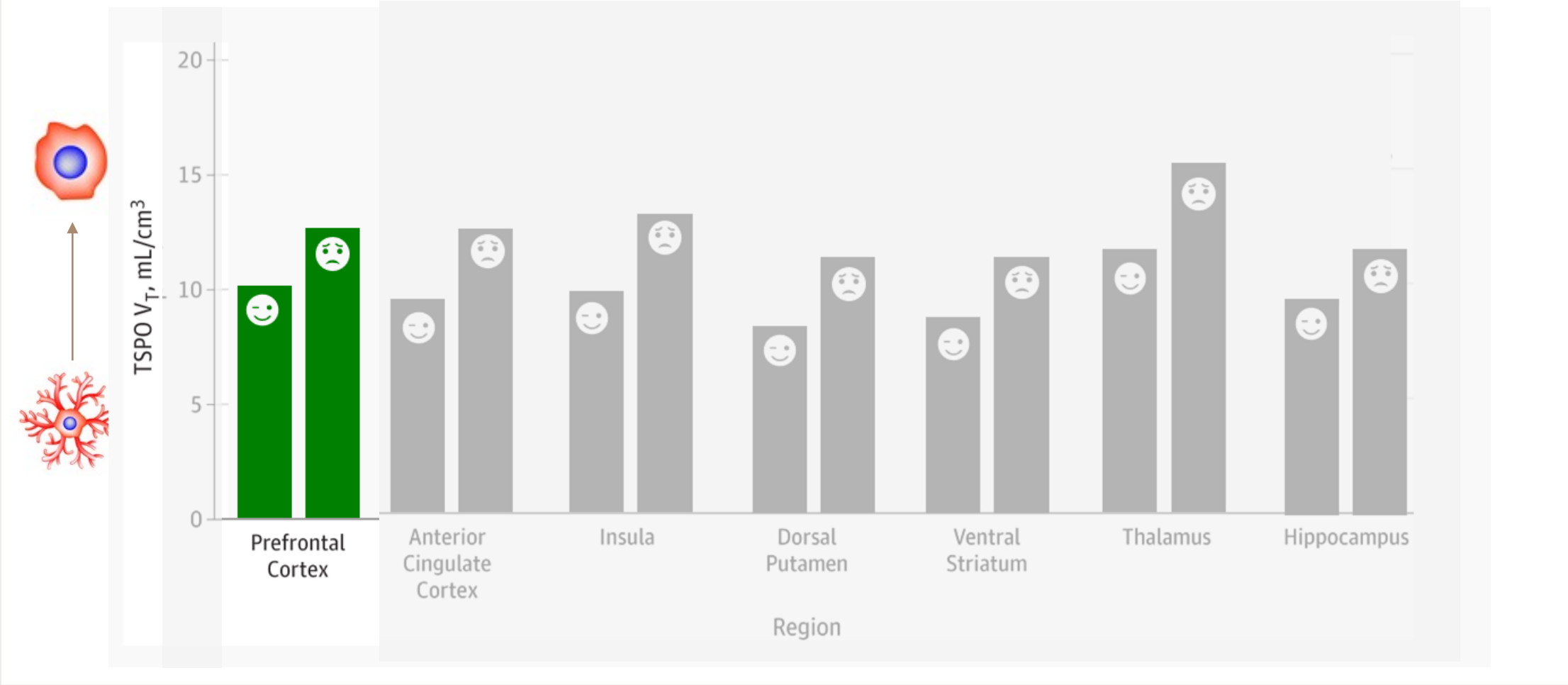
Microglial activation



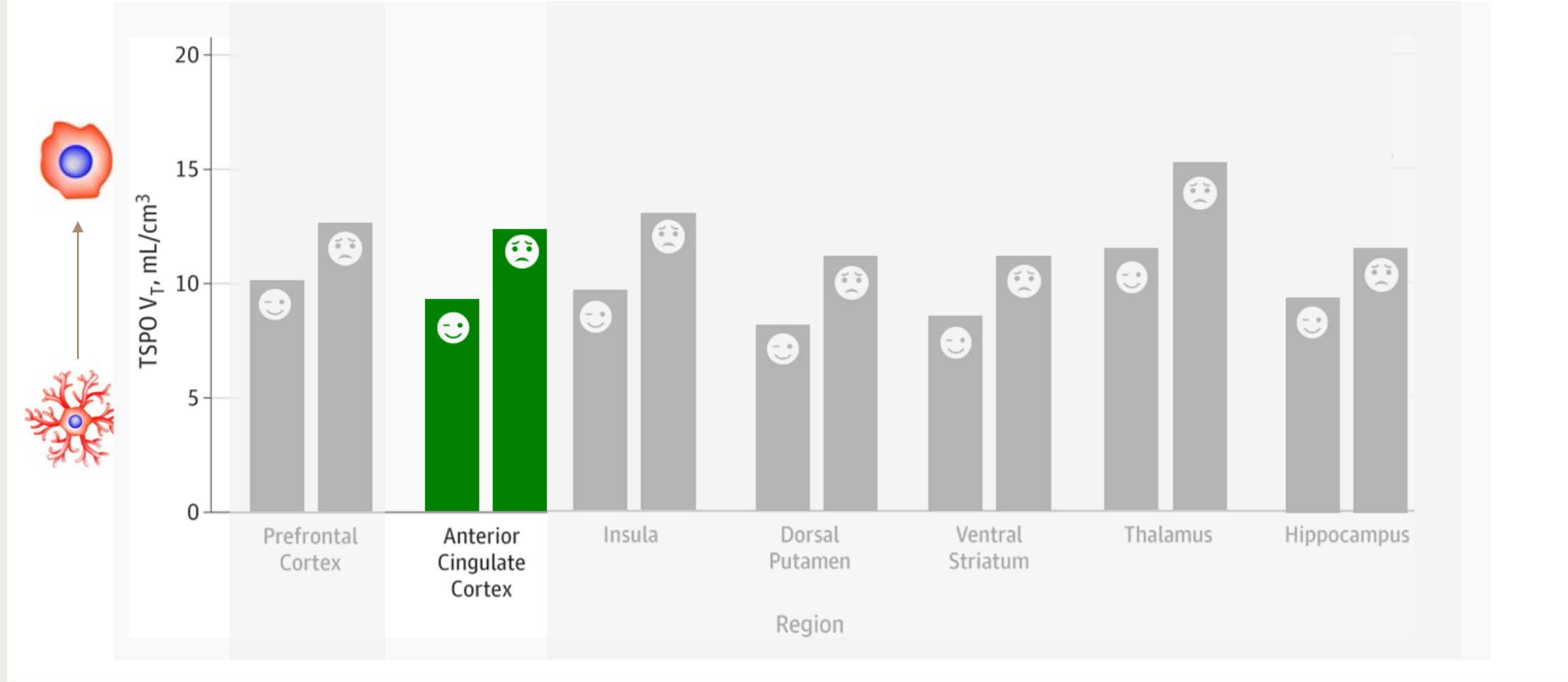
Microglial activation in depression



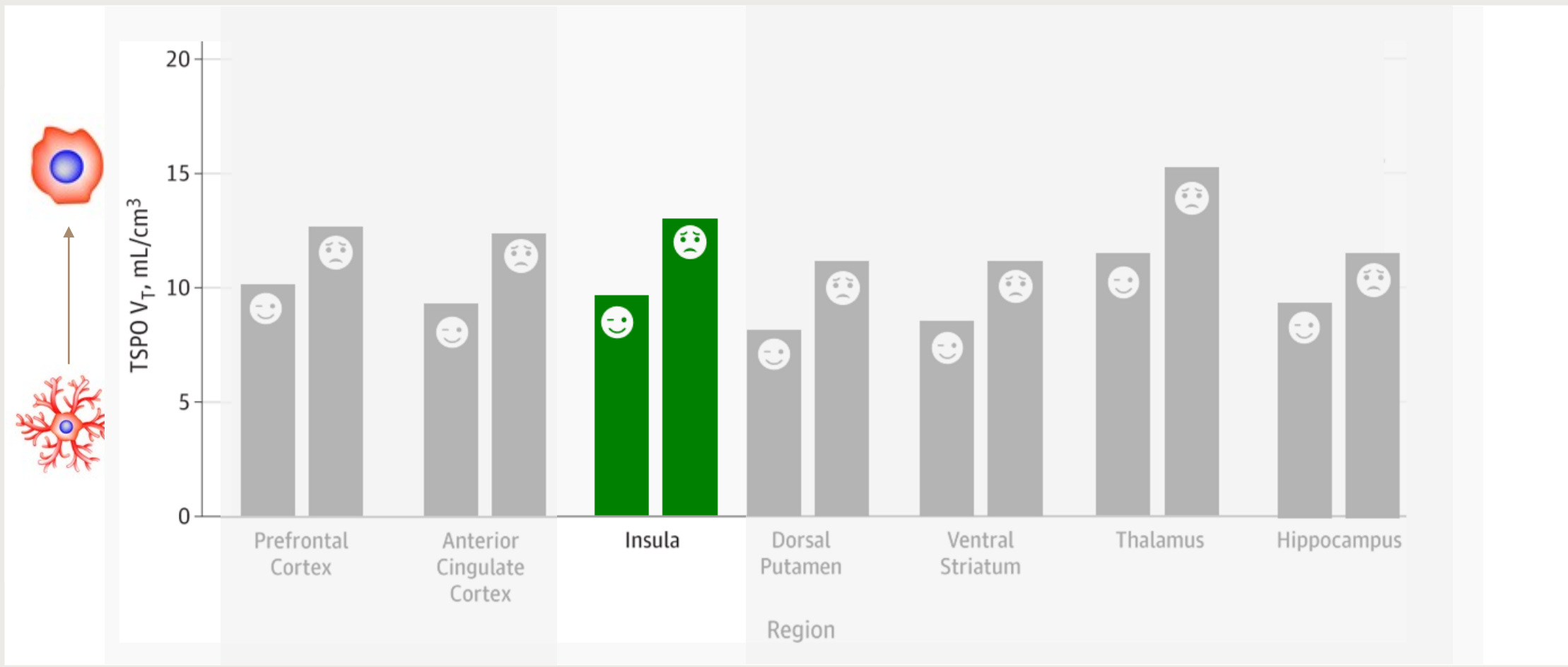
Microglial activation in depression



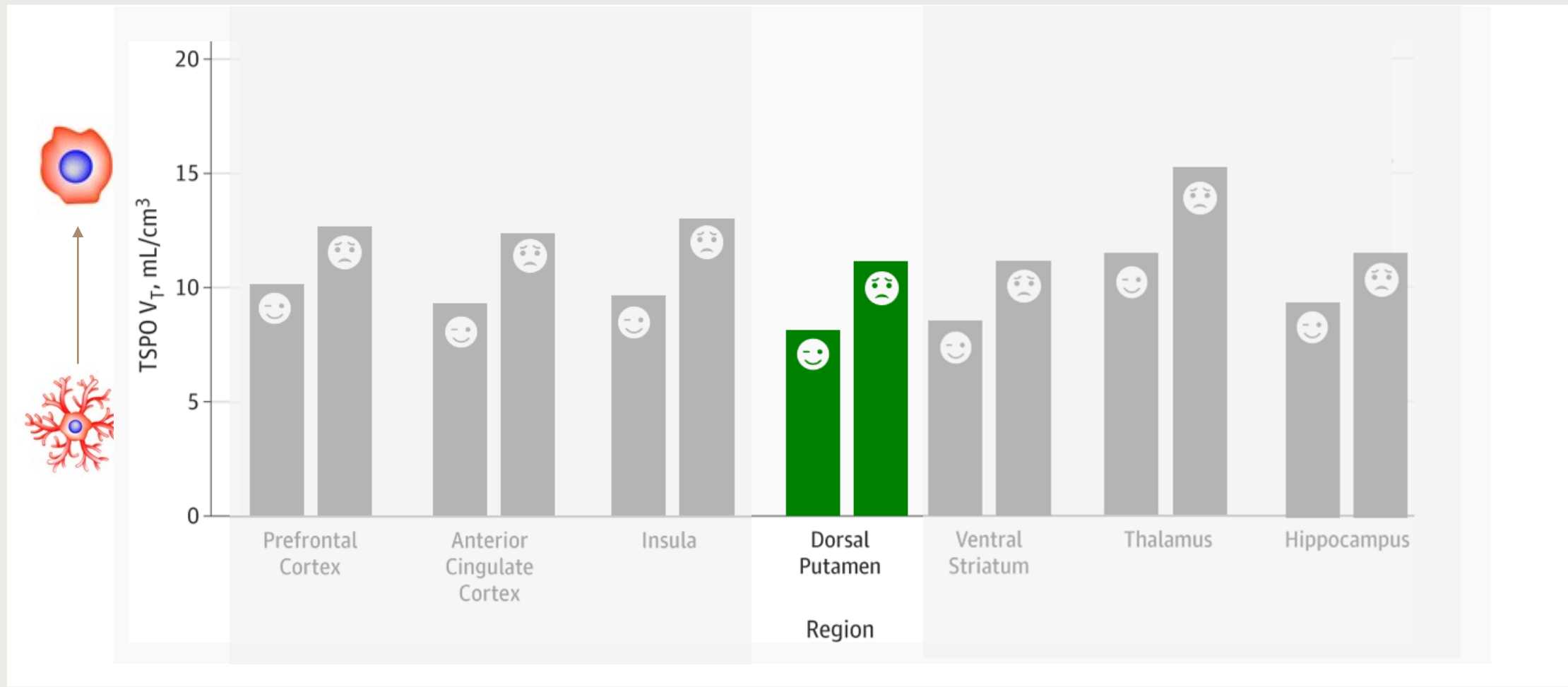
Microglial activation in depression



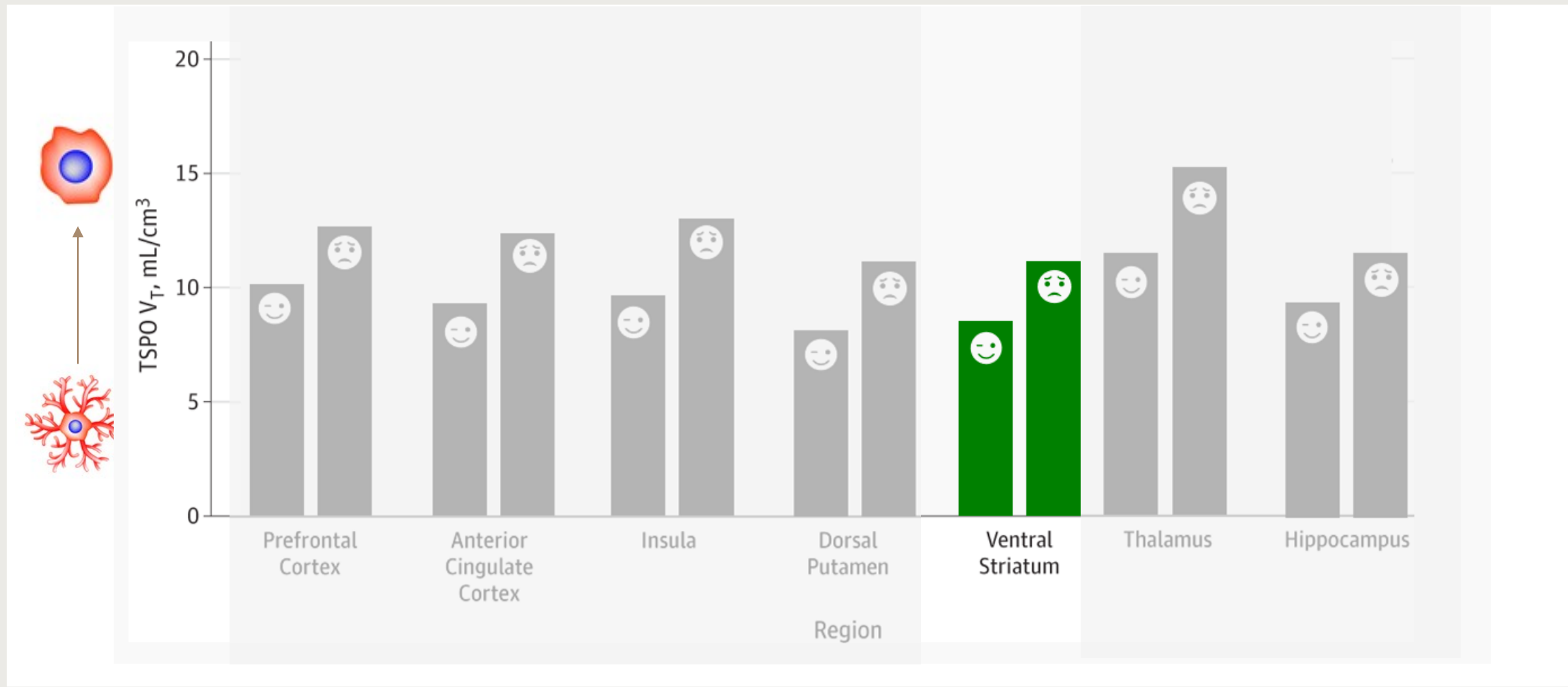
Microglial activation in depression



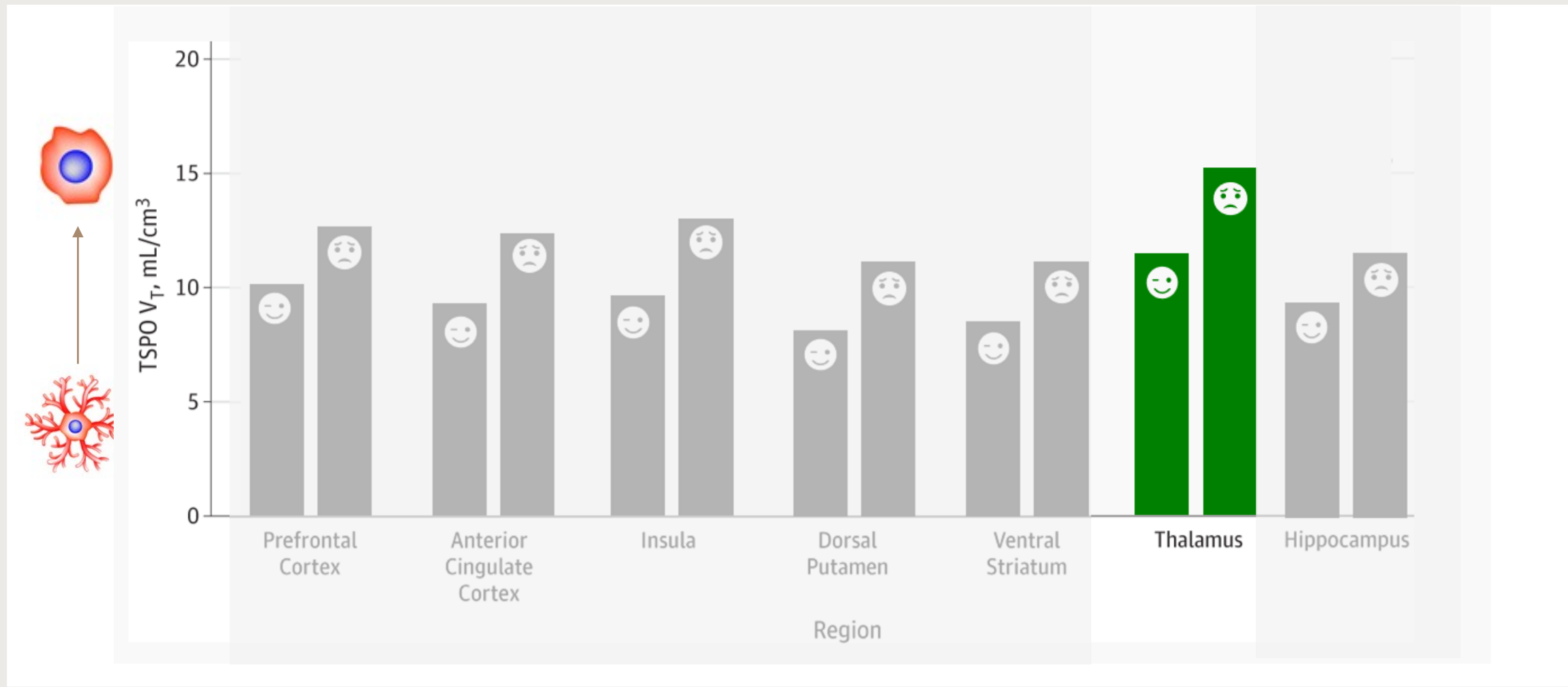
Microglial activation in depression



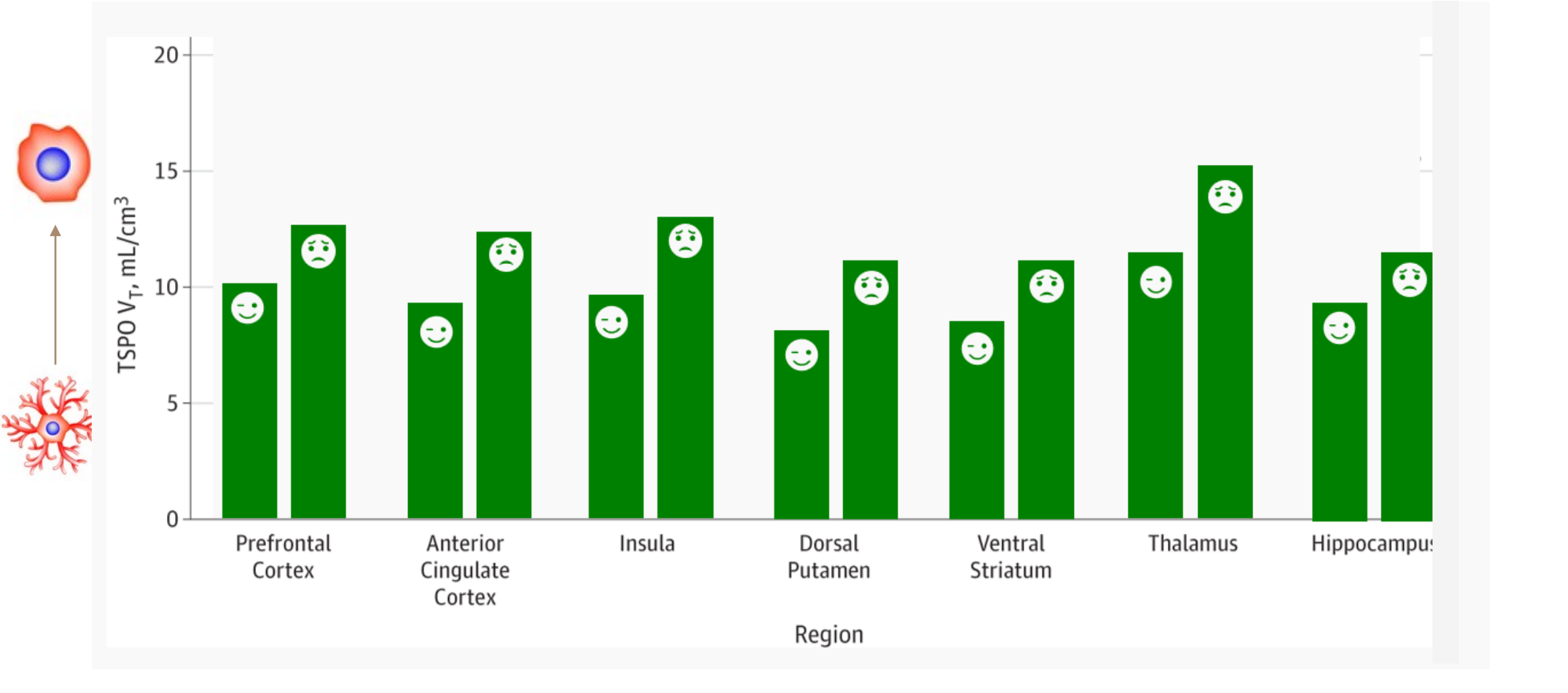
Microglial activation in depression



Microglial activation in depression



Microglial activation in depression

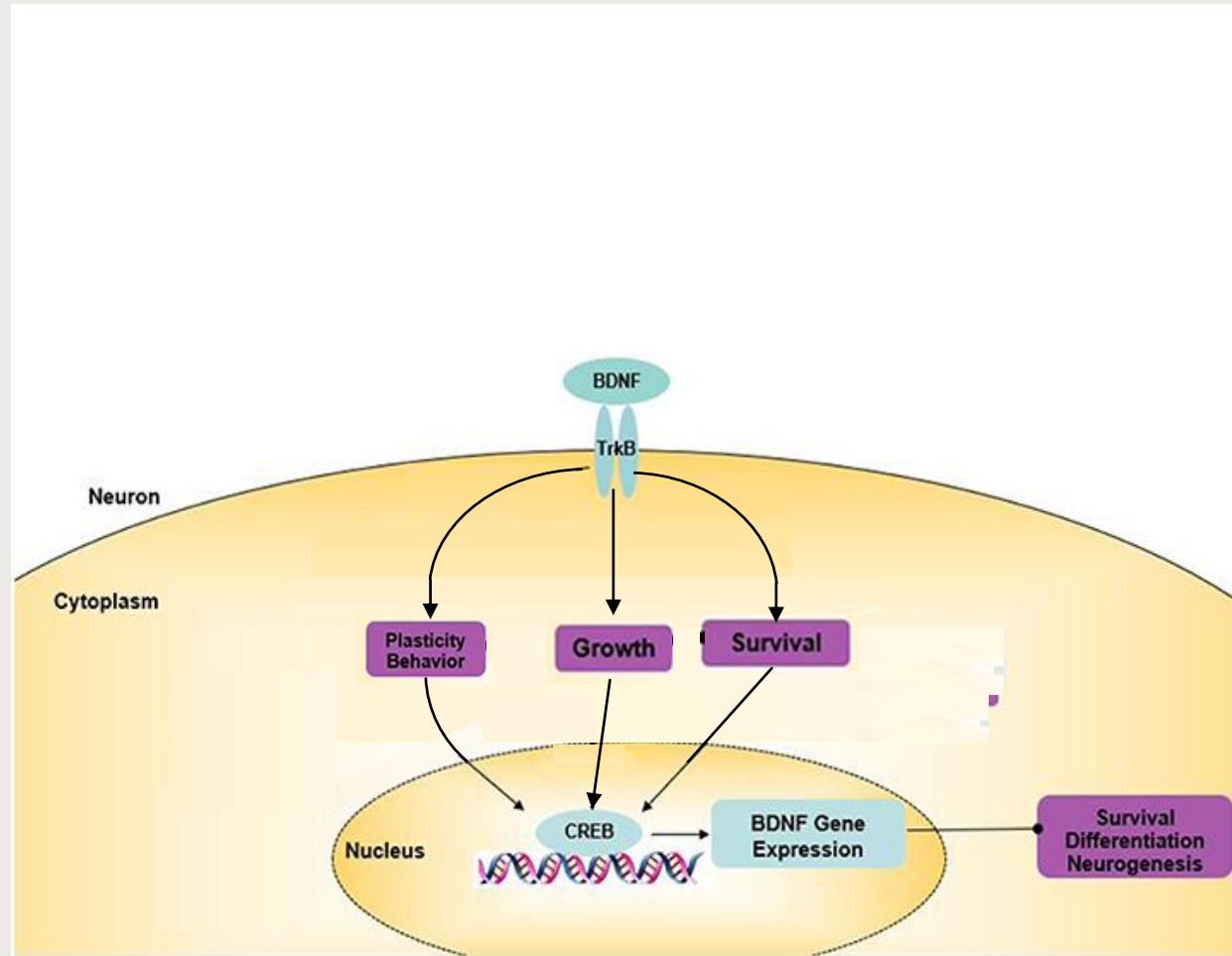


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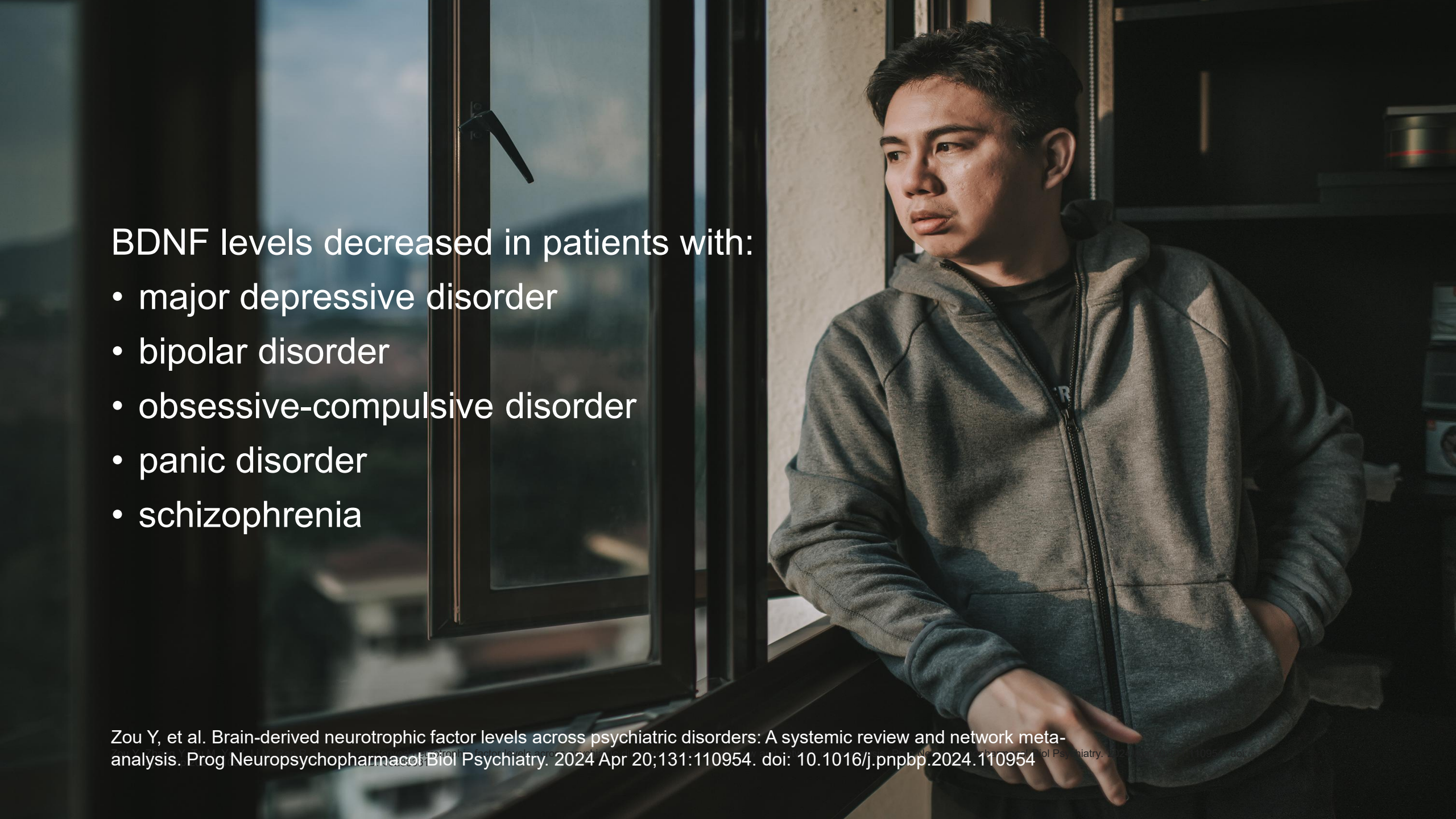
The word cloud features the following terms:

- HPA dysfunction
- Inflammation
- Neuroplasticity
- Chronic stress
- Dysbiosis
- Toxins
- Evolutionary adaptation
- Neurotransmitter imbalance
- Sleep issues
- Vagabond
- Pyrroles
- Biotoxins
- Trauma
- Nutrient deficiencies
- Abnormal connectivity
- Predictive coding
- Volumetric changes
- Infection
- Mast cells
- Blotoxins
- Chronic stress
- Evolutionary adaptation
- Neuroplasticity
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The neurotrophic hypothesis



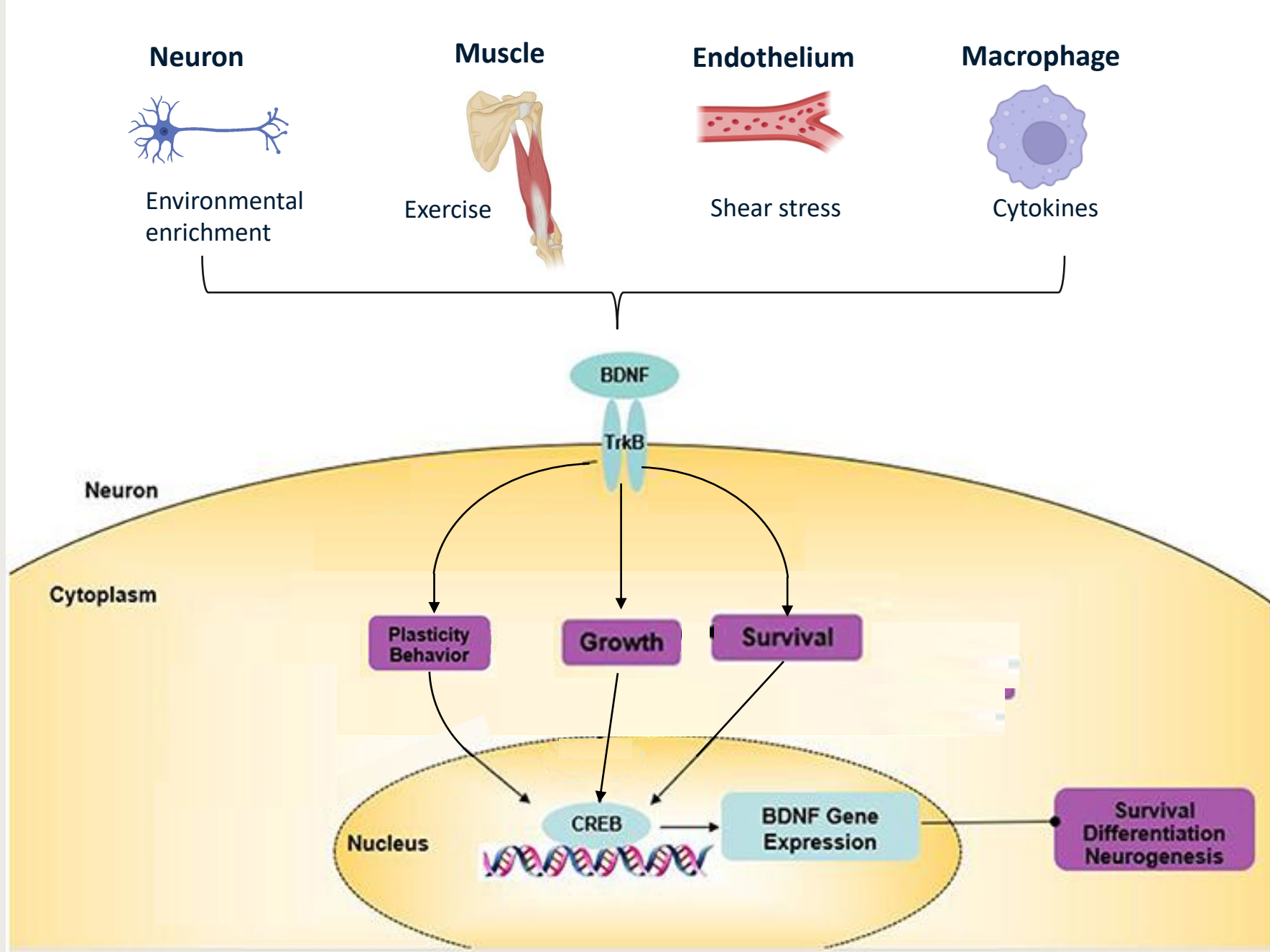
Jin Y, Sun LH, Yang W, Cui RJ, Xu SB. The role of BDNF in the neuroimmune axis regulation of mood disorders. *Front Neurol* 10: 515 [Internet]. 2019

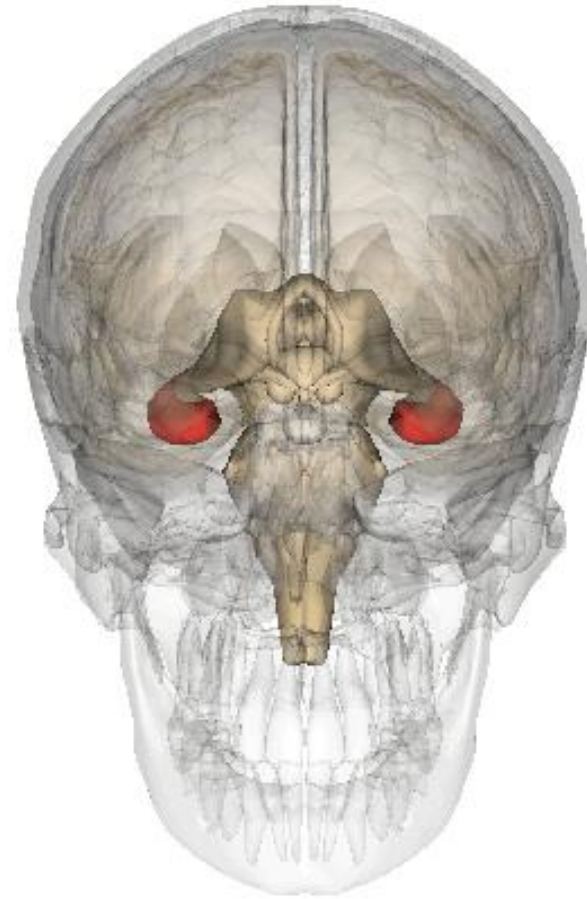
A man with dark hair, wearing a grey zip-up hoodie, is standing by a large window. He is looking out the window with a thoughtful or somber expression. The window has a black frame and a handle. The background outside the window is slightly blurred, showing what appears to be a cityscape or buildings. The lighting is soft, coming from the window, casting a gentle shadow on his face and the wall behind him.

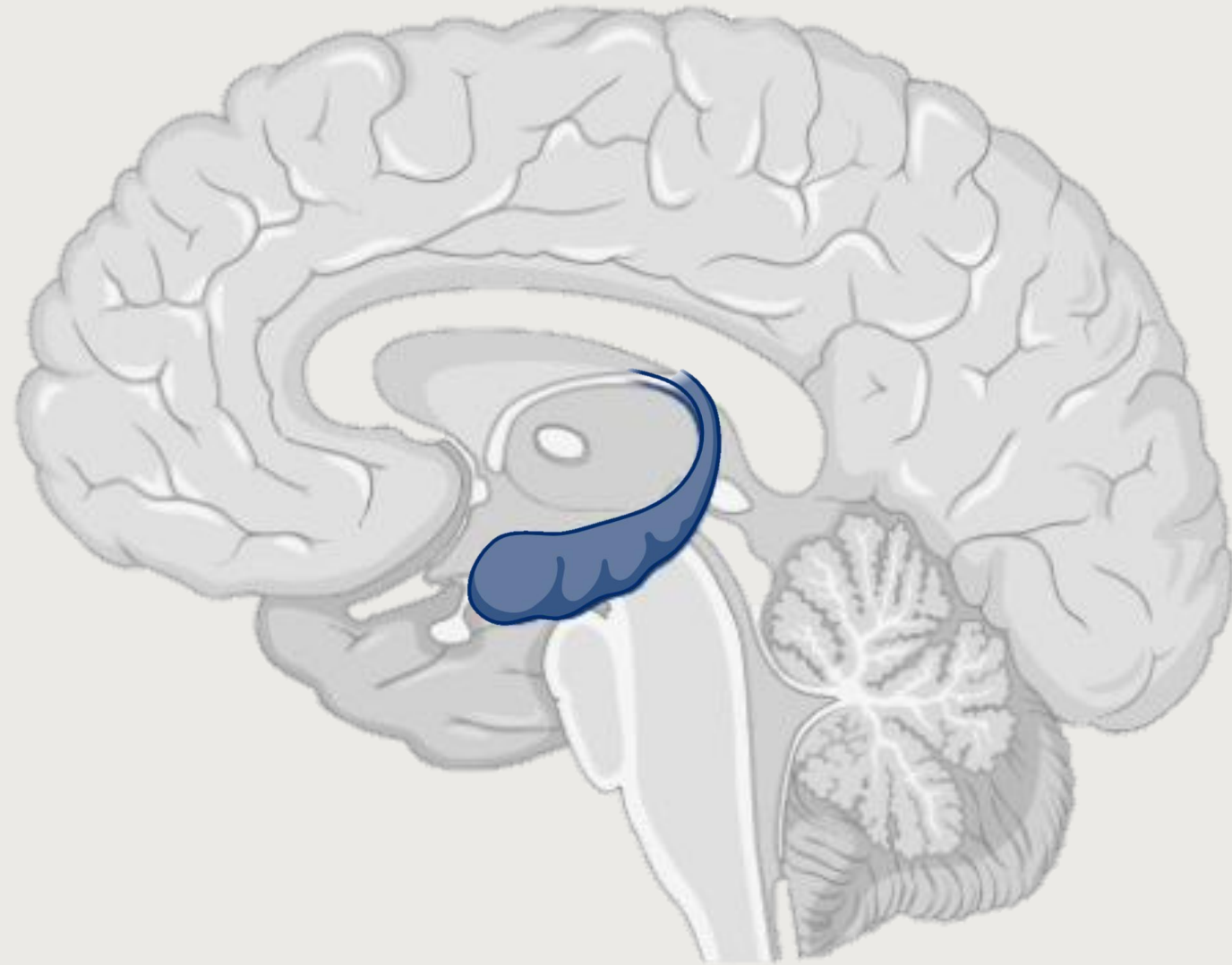
BDNF levels decreased in patients with:

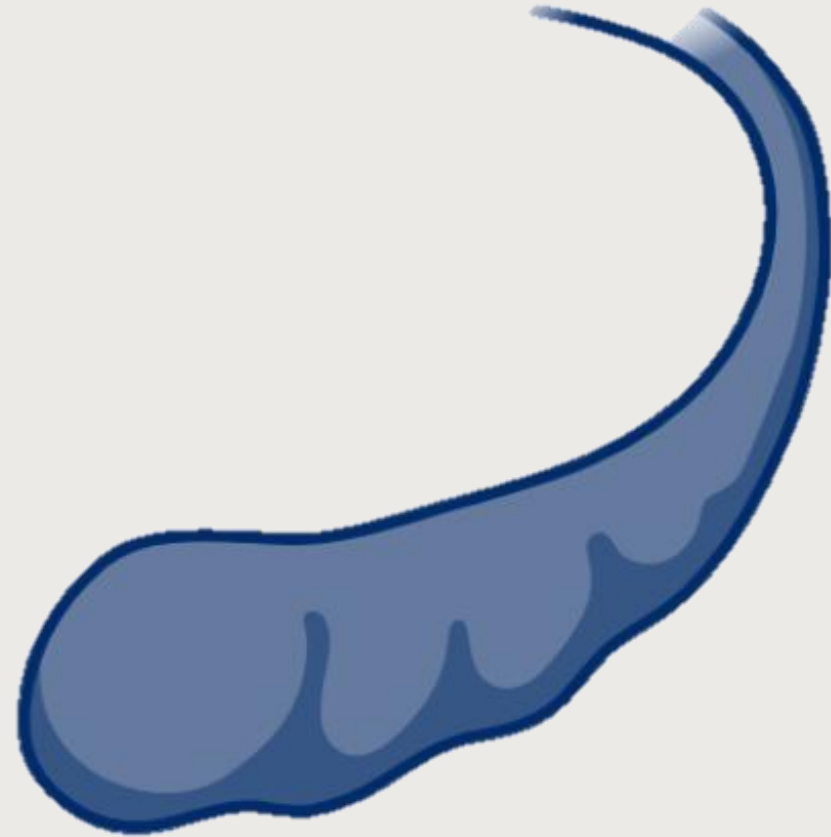
- major depressive disorder
- bipolar disorder
- obsessive-compulsive disorder
- panic disorder
- schizophrenia

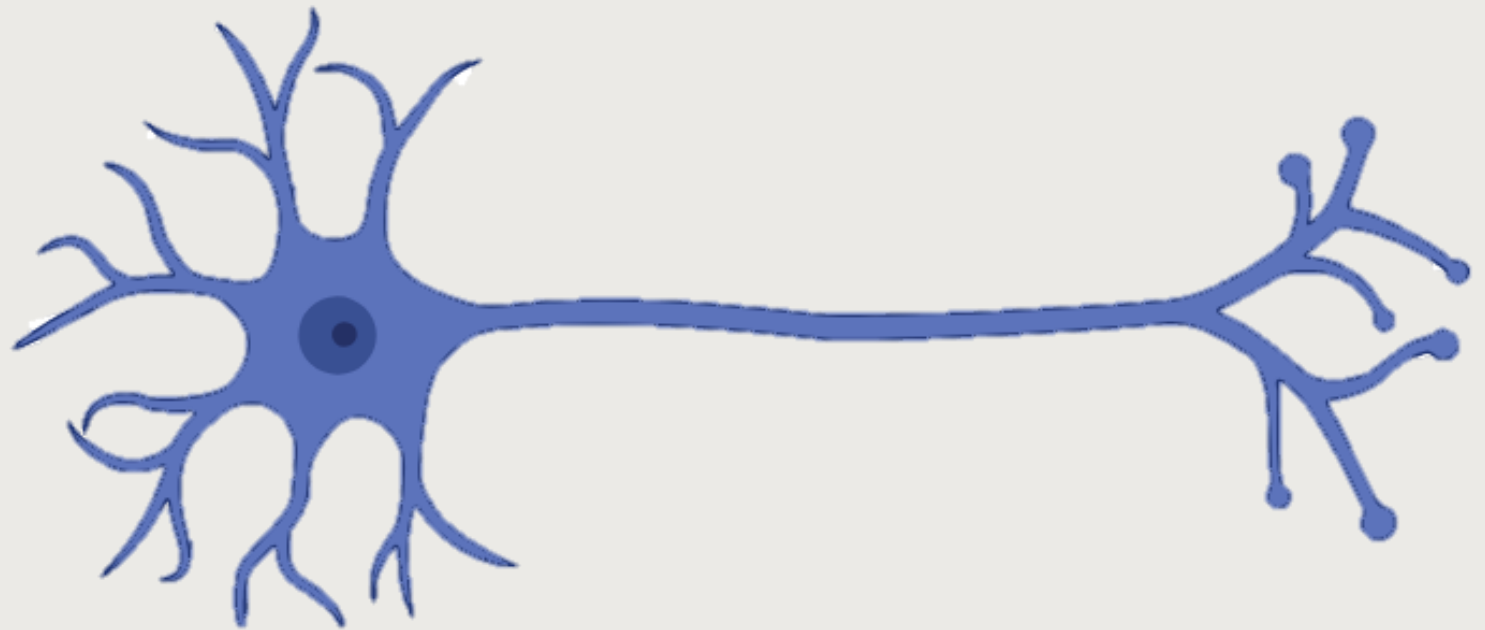
Zou Y, et al. Brain-derived neurotrophic factor levels across psychiatric disorders: A systemic review and network meta-analysis. Prog Neuropsychopharmacol Biol Psychiatry. 2024 Apr 20;131:110954. doi: 10.1016/j.pnpbp.2024.110954

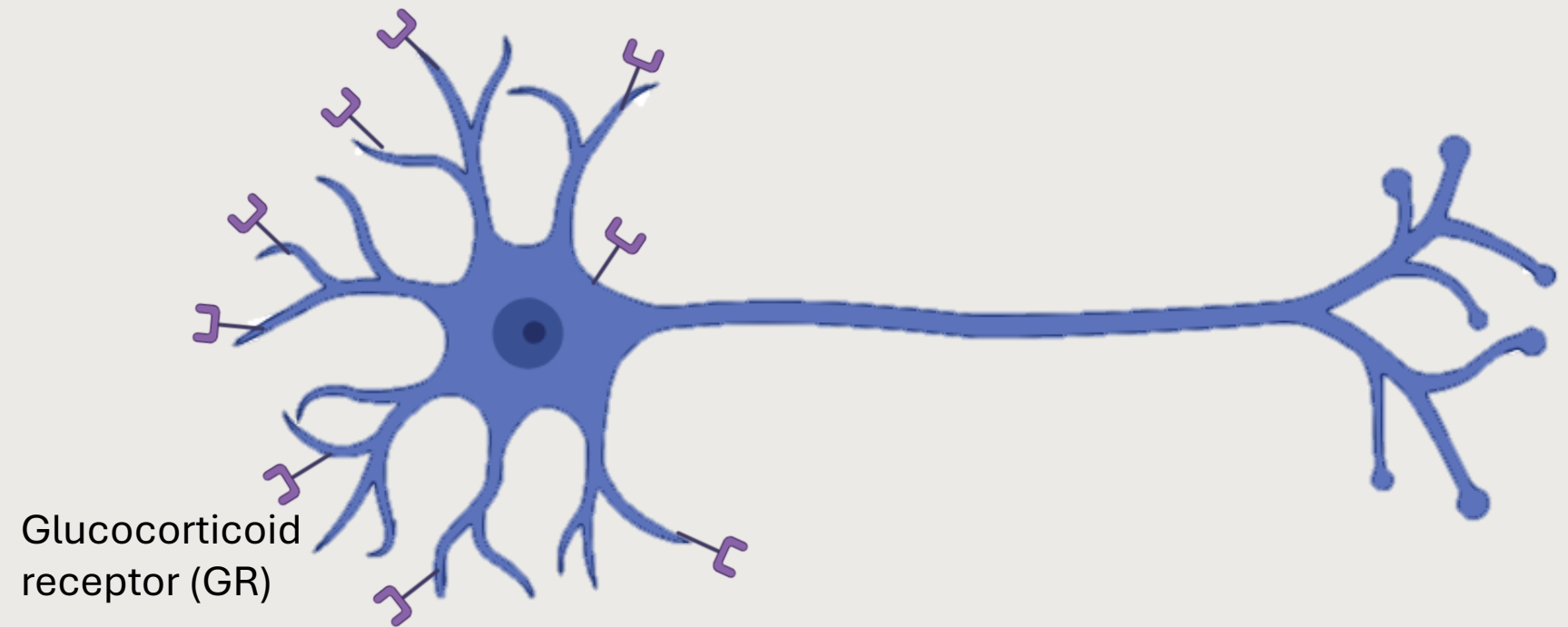


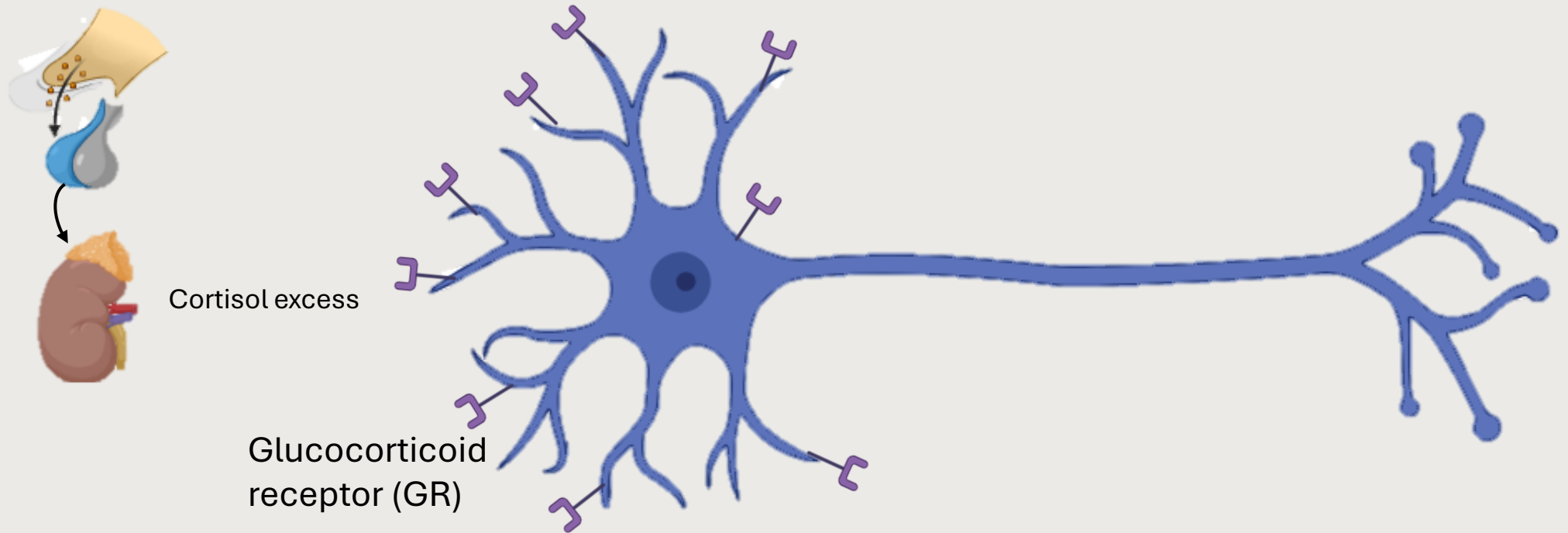


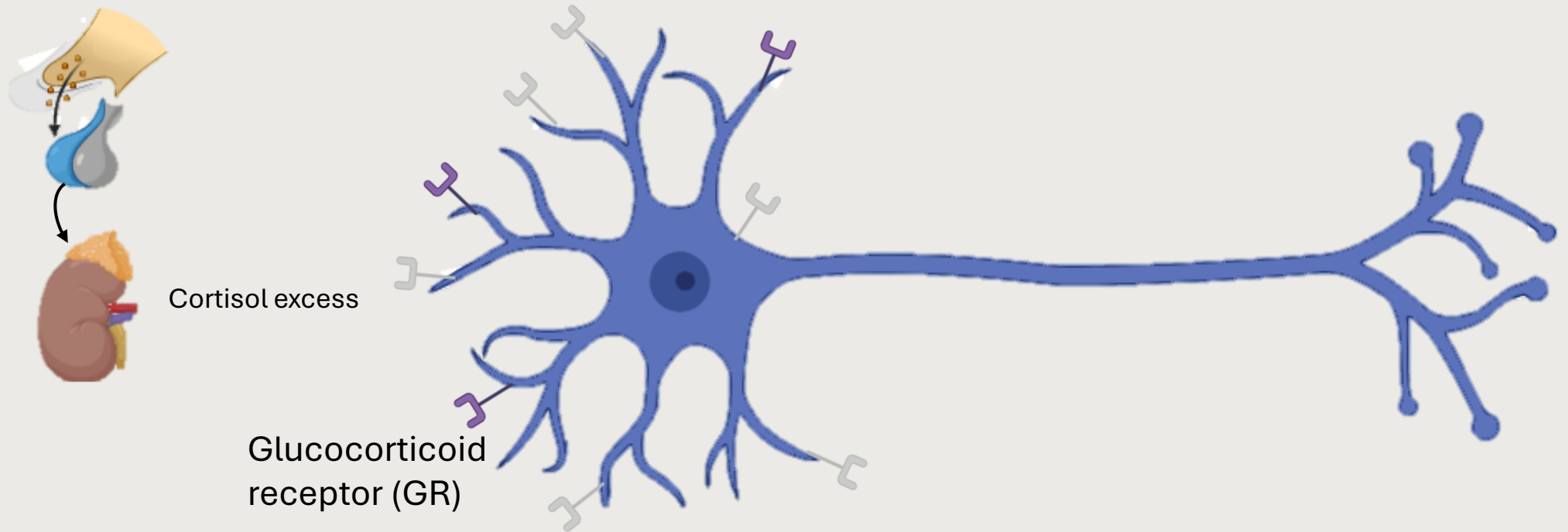


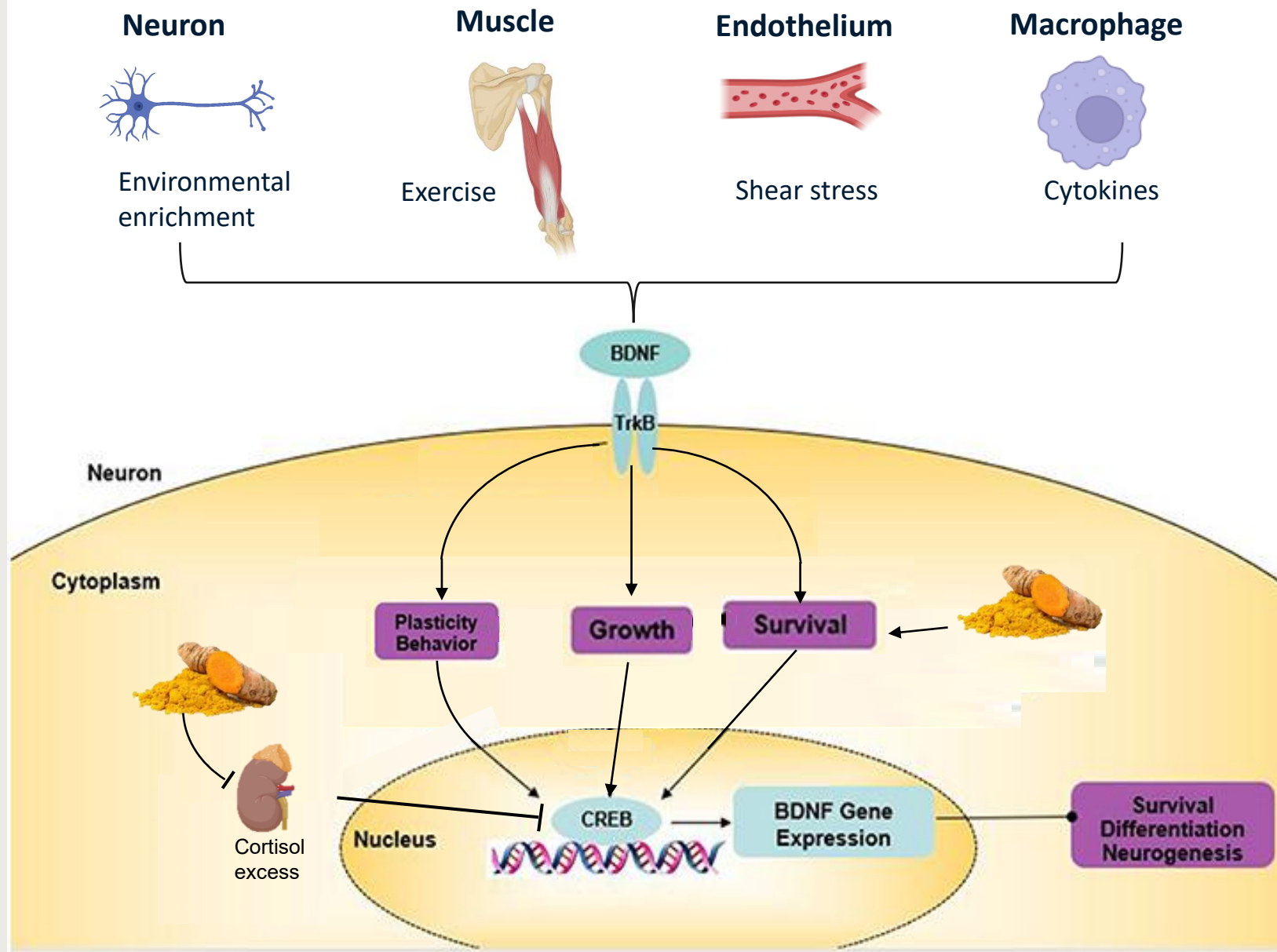






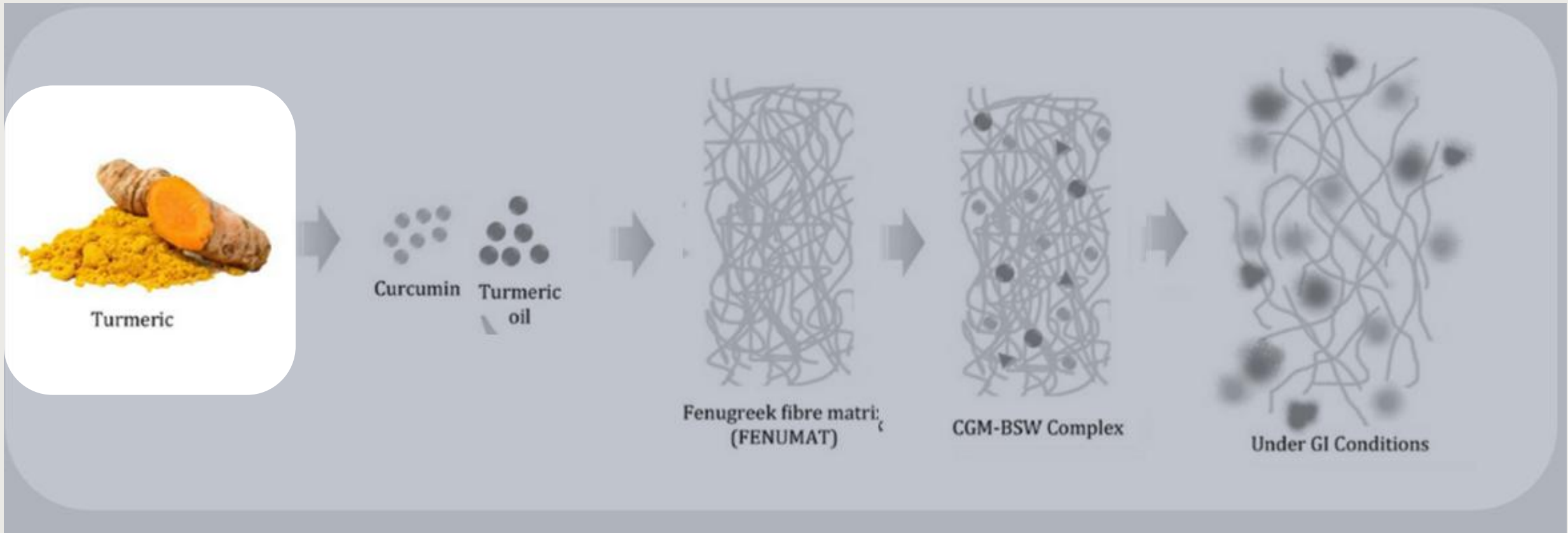






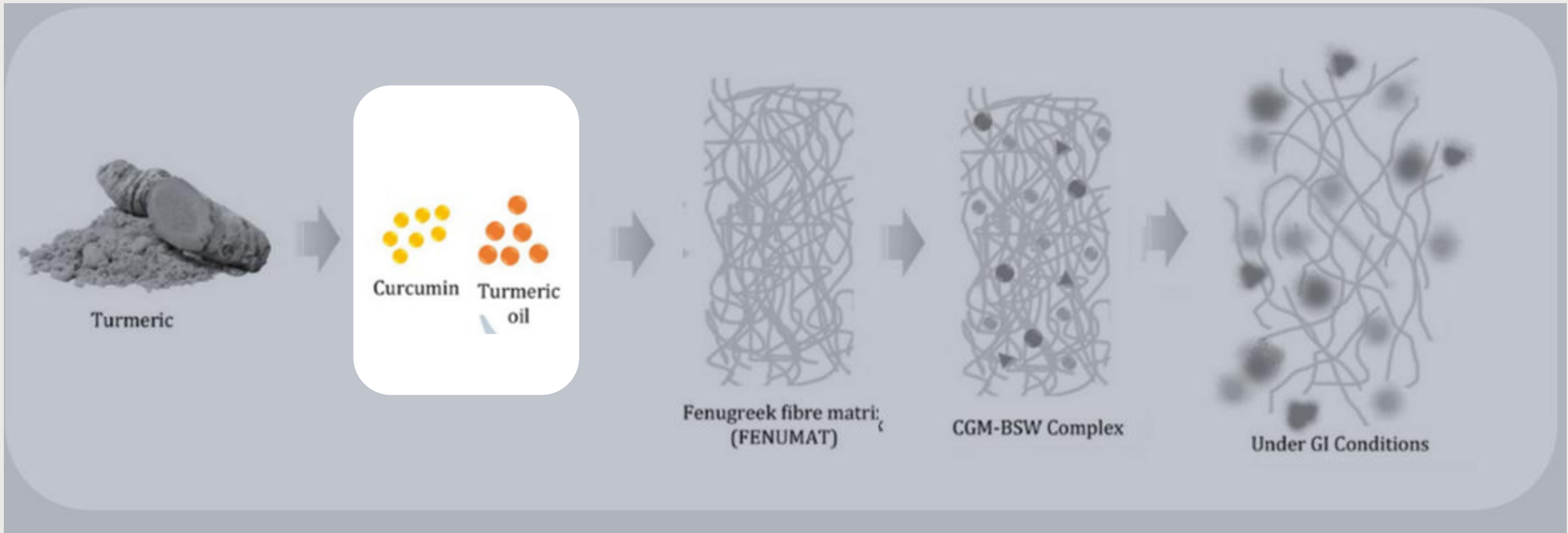
Xu Y, Ku B, Tie L, Yao H, Jiang W, Ma X, Li X. Curcumin reverses the effects of chronic stress on behavior, the HPA axis, BDNF expression and phosphorylation of CREB. Brain Res. 2006 Nov 29;1122(1):56-64. doi: 10.1016/j.brainres.2006.09.009. Epub 2006 Oct 3. PMID: 17022948.

CGM Turmeric



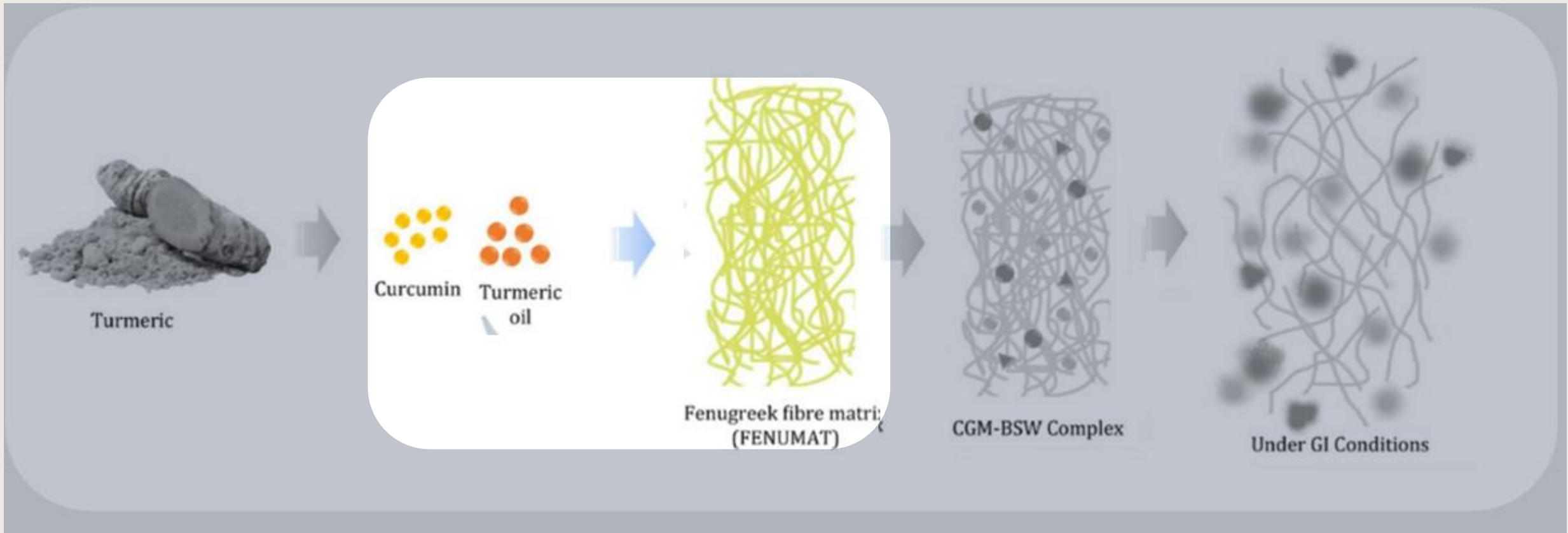
Krishnakumar IM, Ravi A, Kumar D, Kuttan R, Maliakel B. An enhanced bioavailable formulation of curcumin using fenugreek-derived soluble dietary fibre. *Journal of Functional Foods*. 2012 Jan 1;4(1):348-57.

CGM Turmeric



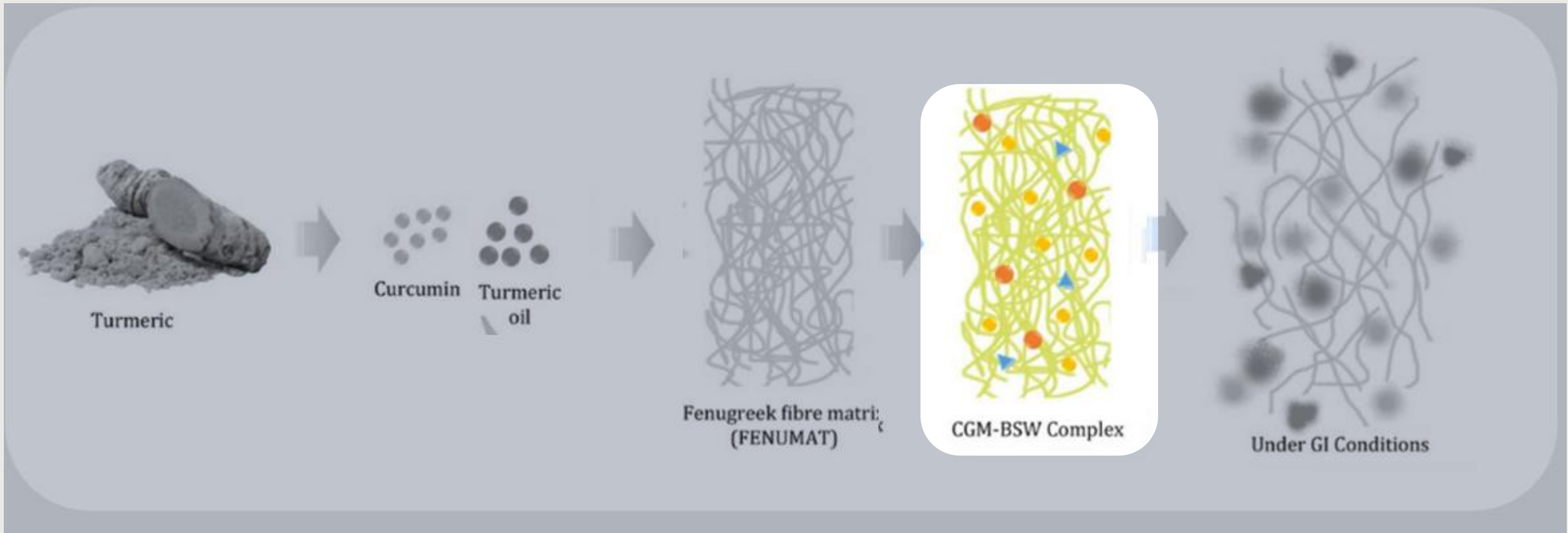
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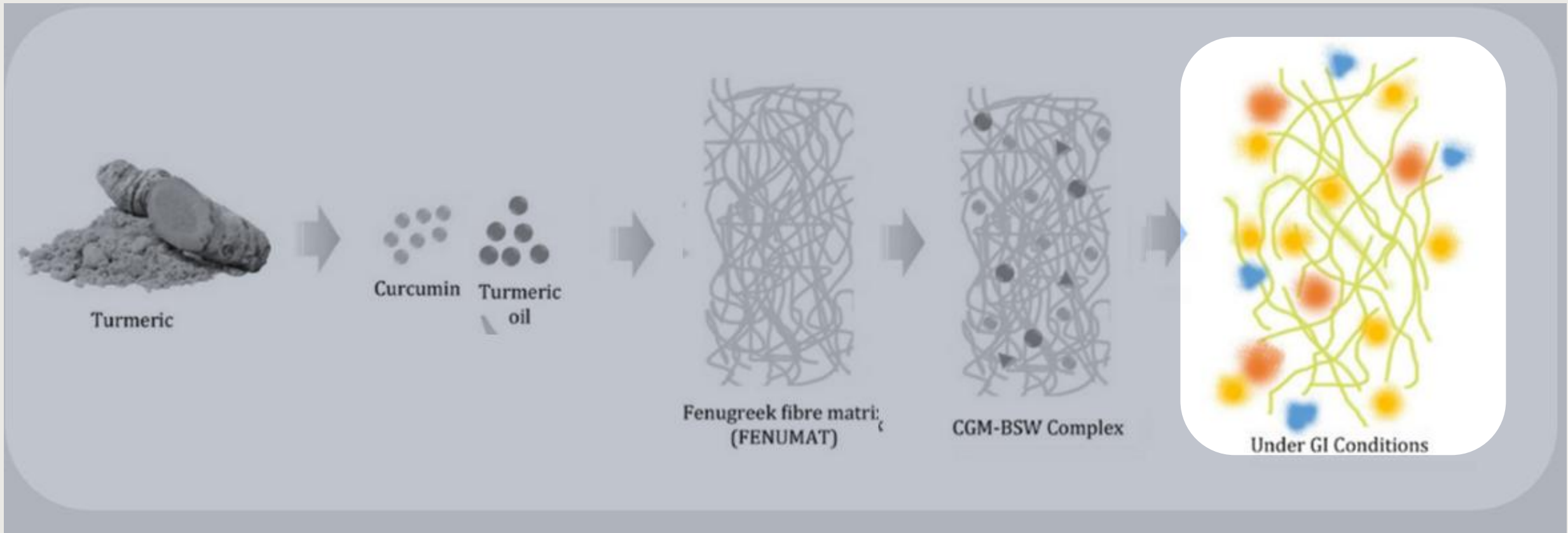
Krishnakumar IM, Ravi A, Kumar D, Kuttan R, Maliakel B. An enhanced bioavailable formulation of curcumin using fenugreek-derived soluble dietary fibre. *Journal of Functional Foods*. 2012 Jan 1;4(1):348-57.

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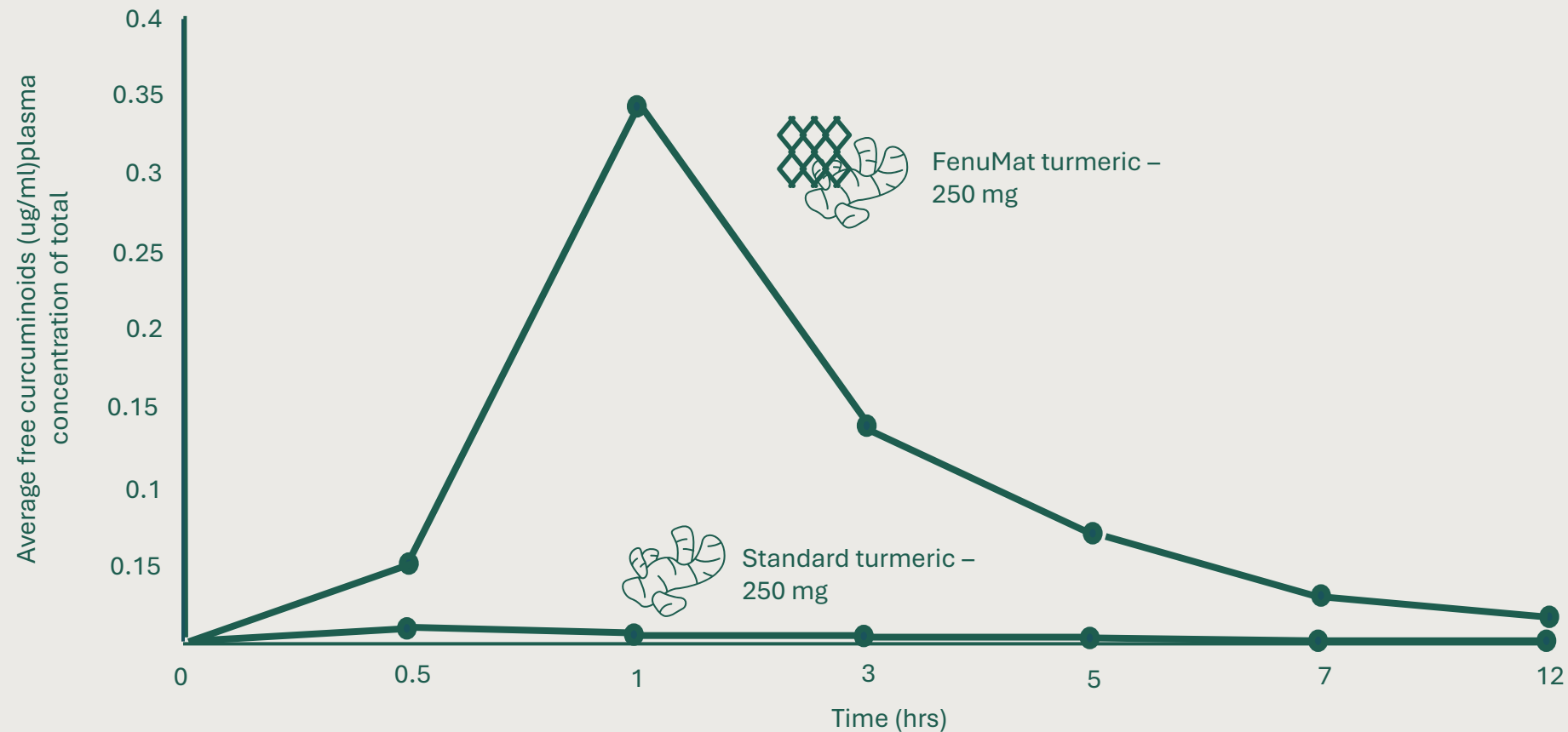
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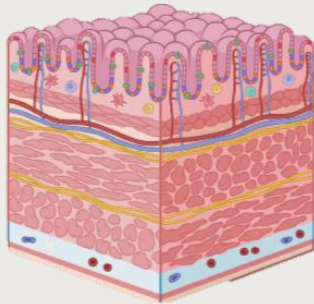
Krishnakumar IM, Ravi A, Kumar D, Kuttan R, Maliakel B. An enhanced bioavailable formulation of curcumin using fenugreek-derived soluble dietary fibre. *Journal of Functional Foods*. 2012 Jan 1;4(1):348-57.

FenuMAT turmeric has superior bioavailability

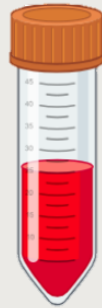


Krishnakumar IM, Ravi A, Kumar D, Kuttan R, Maliakel B. An enhanced bioavailable formulation of curcumin using fenugreek-derived soluble dietary fibre. *Journal of Functional Foods*. 2012 Jan 1;4(1):348-57.

High tissue concentration of FenuMAT Tumeric



12x



25x



25x



54x



55x

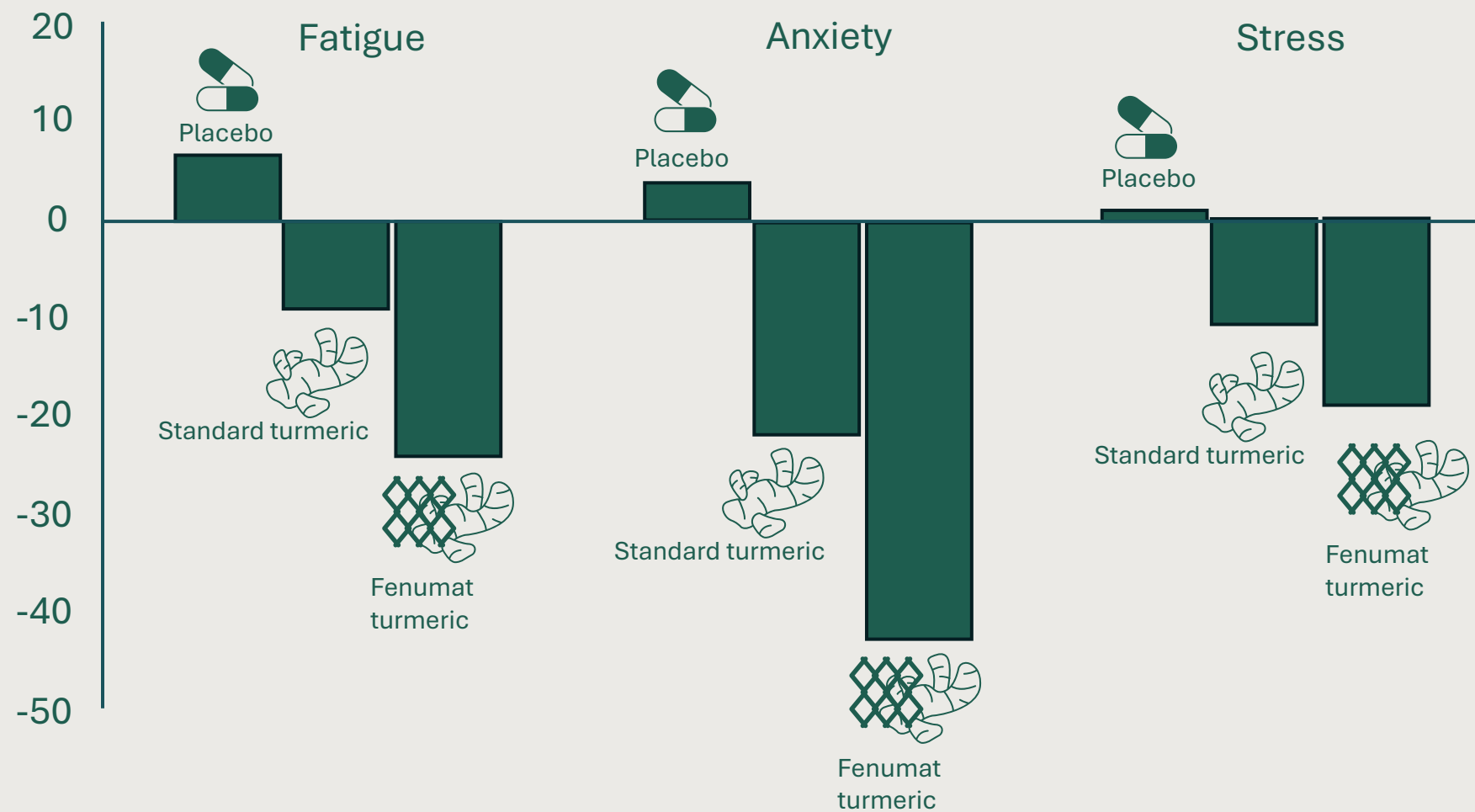


111x



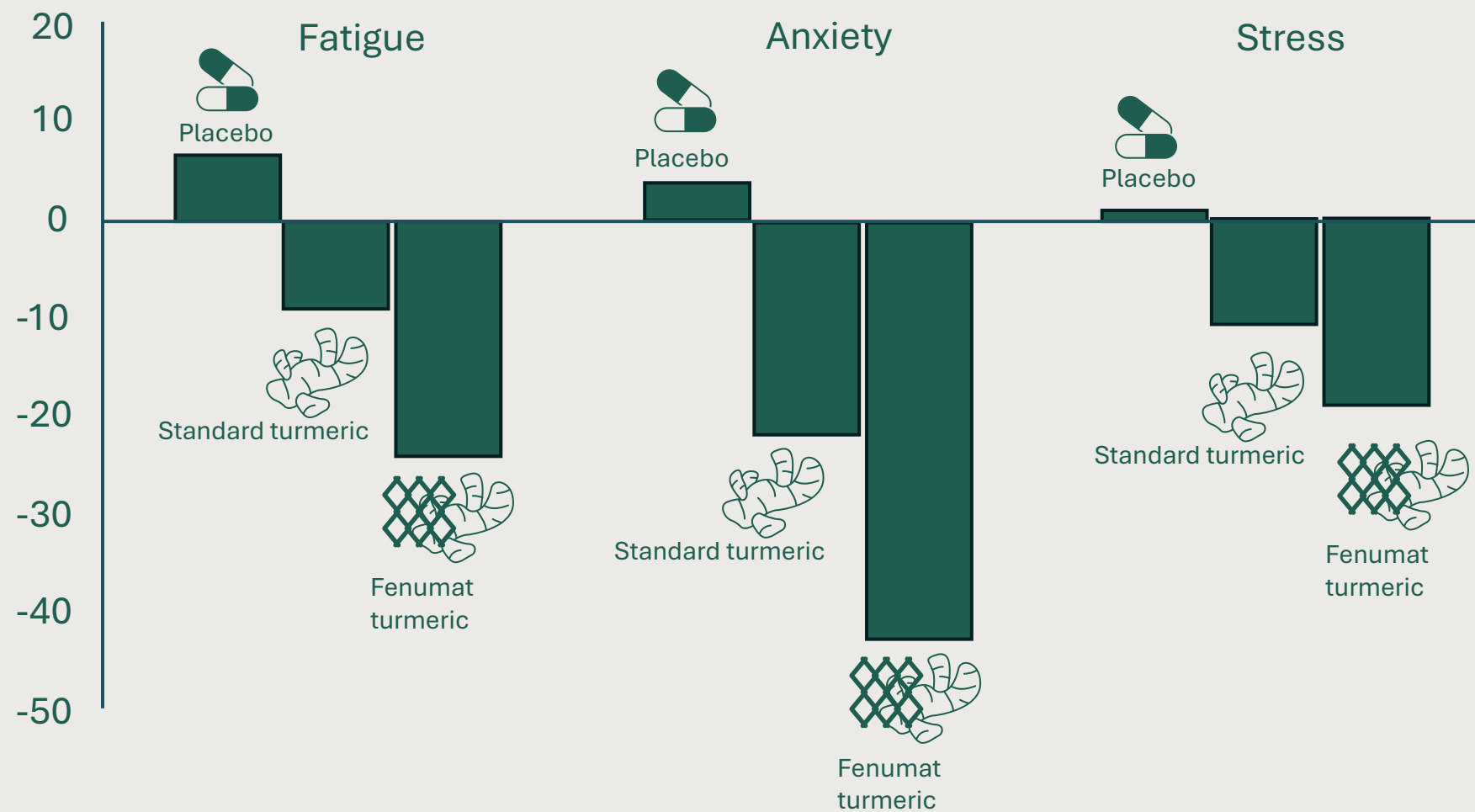
347x

FenuMAT Turmeric improves energy and mood



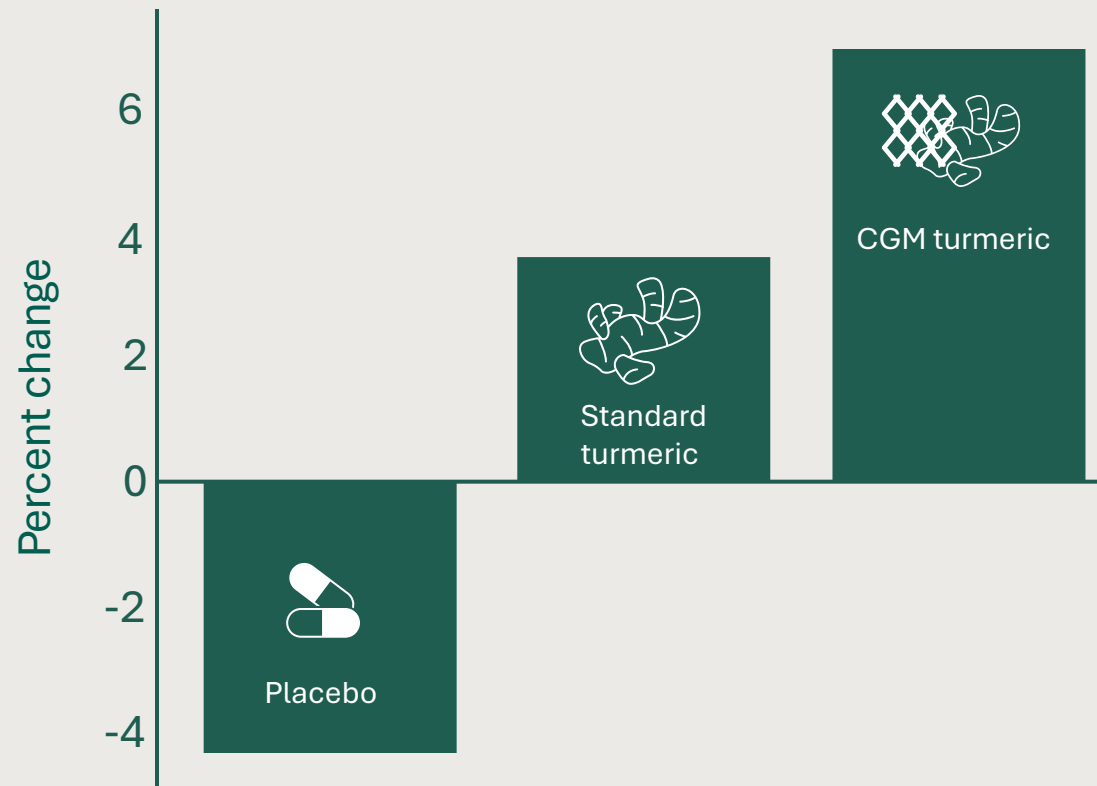
Sudheeran SP, et al. Safety, tolerance, and enhanced efficacy of a bioavailable formulation of curcumin with fenugreek dietary fiber on occupational stress: A randomized, double-blind, placebo-controlled pilot study. Journal of clinical psychopharmacology. 2016 Jun 1;36(3):236-43

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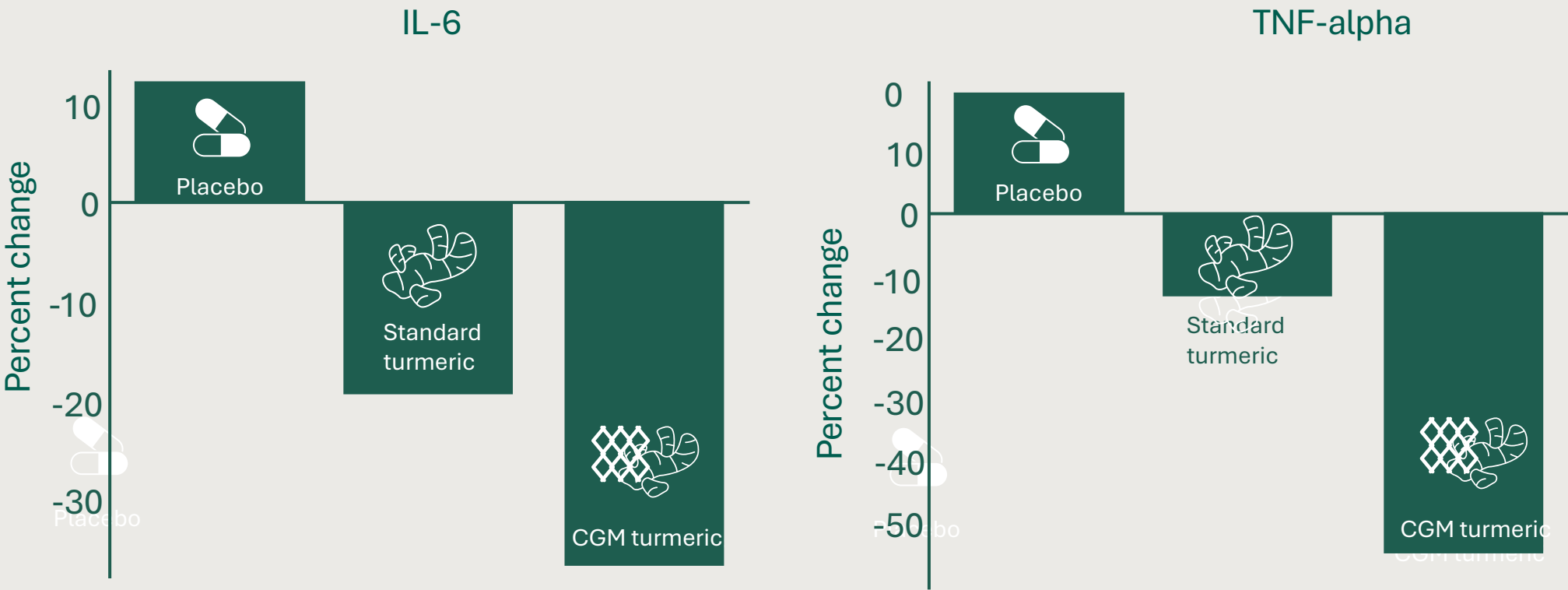
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Turmeric with FenuMAT™ Improved Alzheimer's Disease Biomarkers



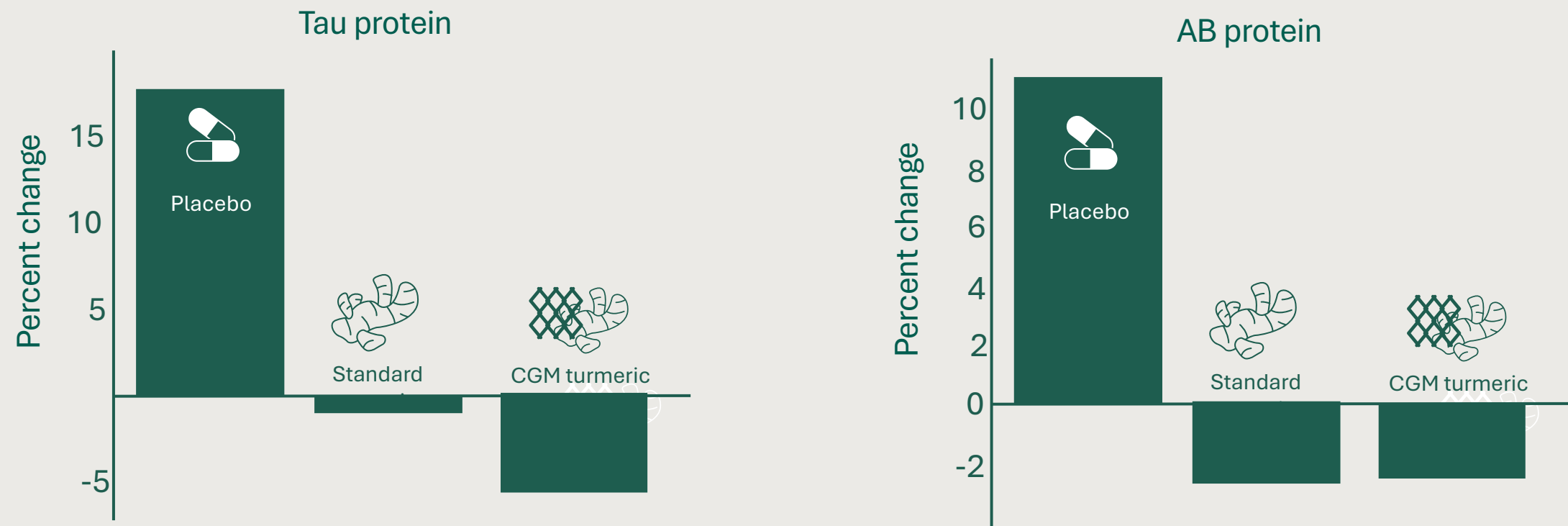
Das SS, et al. Influence of CurQfen®-curcumin on cognitive impairment: a randomized, double-blinded, placebo-controlled, 3-arm, 3-sequence comparative study. *Front Dement.* 2023;2:1222708. Published 2023 Sep 13. doi:10.3389/frdem.2023.1222708

Turmeric with FenuMAT™ Improved Alzheimer's Disease Biomarkers



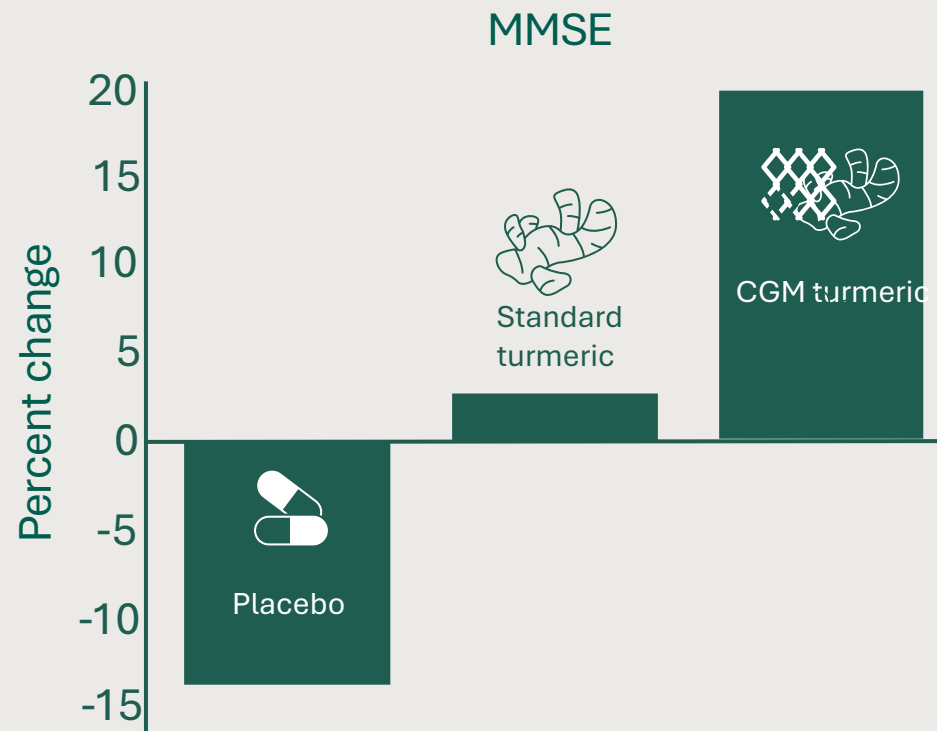
Das SS, et al. Influence of CurQfen®-curcumin on cognitive impairment: a randomized, double-blinded, placebo-controlled, 3-arm, 3-sequence comparative study. *Front Dement.* 2023;2:1222708. Published 2023 Sep 13. doi:10.3389/frdem.2023.1222708

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Key Botanicals



Turmeric



Boswellia

Bupleurum



Gotu Kola

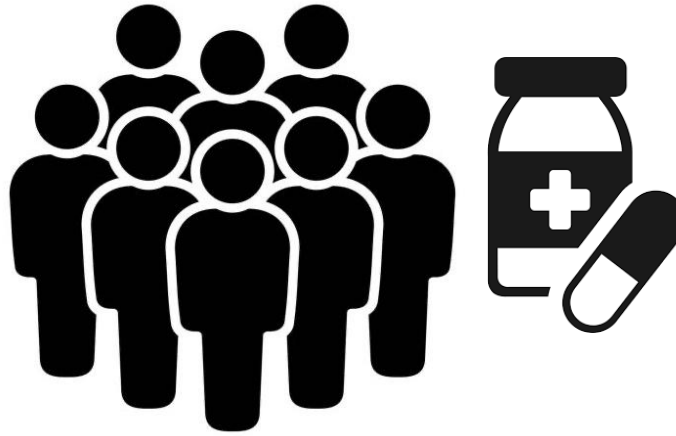


- Clinical Trial: Design Overview



Trial

8-week, parallel-arm,
randomised, double-blind,
placebo-controlled trial



Participants

91 adults with depression
on anti-depressant therapy



Intervention

Turmeric and Boswellia with FenuMAT™
Bupleurum and Gotu Kola
or placebo tablets.

2 tablets BD, alongside
antidepressant medication

- Clinical Trial: Herbal Medicine Intervention



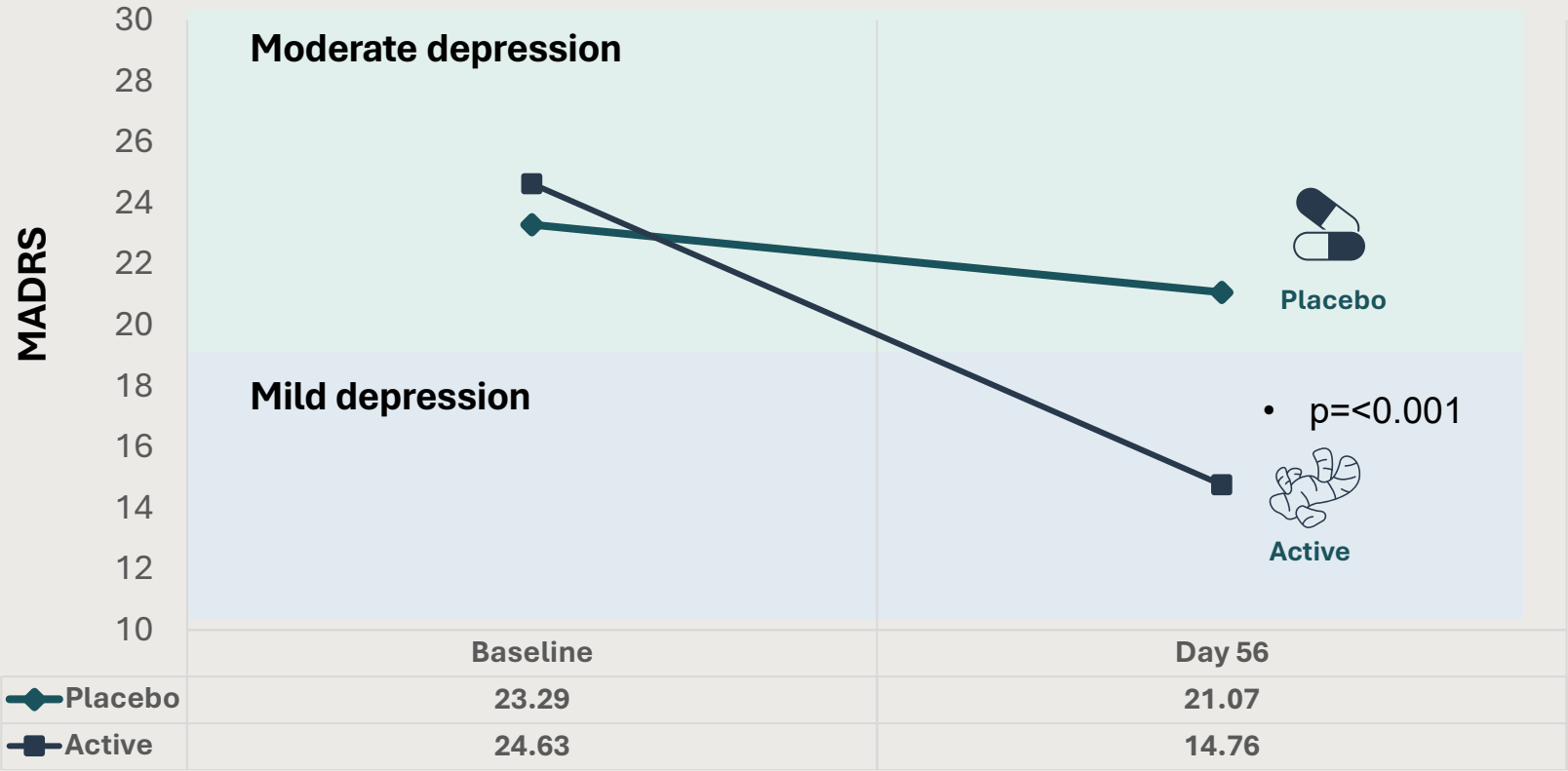
Trial Product

EACH TABLET CONTAINS	
<i>Curcuma longa</i> ext. (CurQfenE4o™)	117 mg
derived from min. rhizome dry	6.4 g
standardised to contain curcuminoids	101 mg
<i>Boswellia serrata</i> ext.	66.25 mg
derived from gum oleoresin dry	1.5 g
<i>Bupleurum falcatum</i> ext.	1.5 mL
derived from root dry	750 mg
<i>Centella asiatica</i> ext.	150 mg
derived from min. leaf dry	1.5 g
standardised to contain triterpenes	30 mg

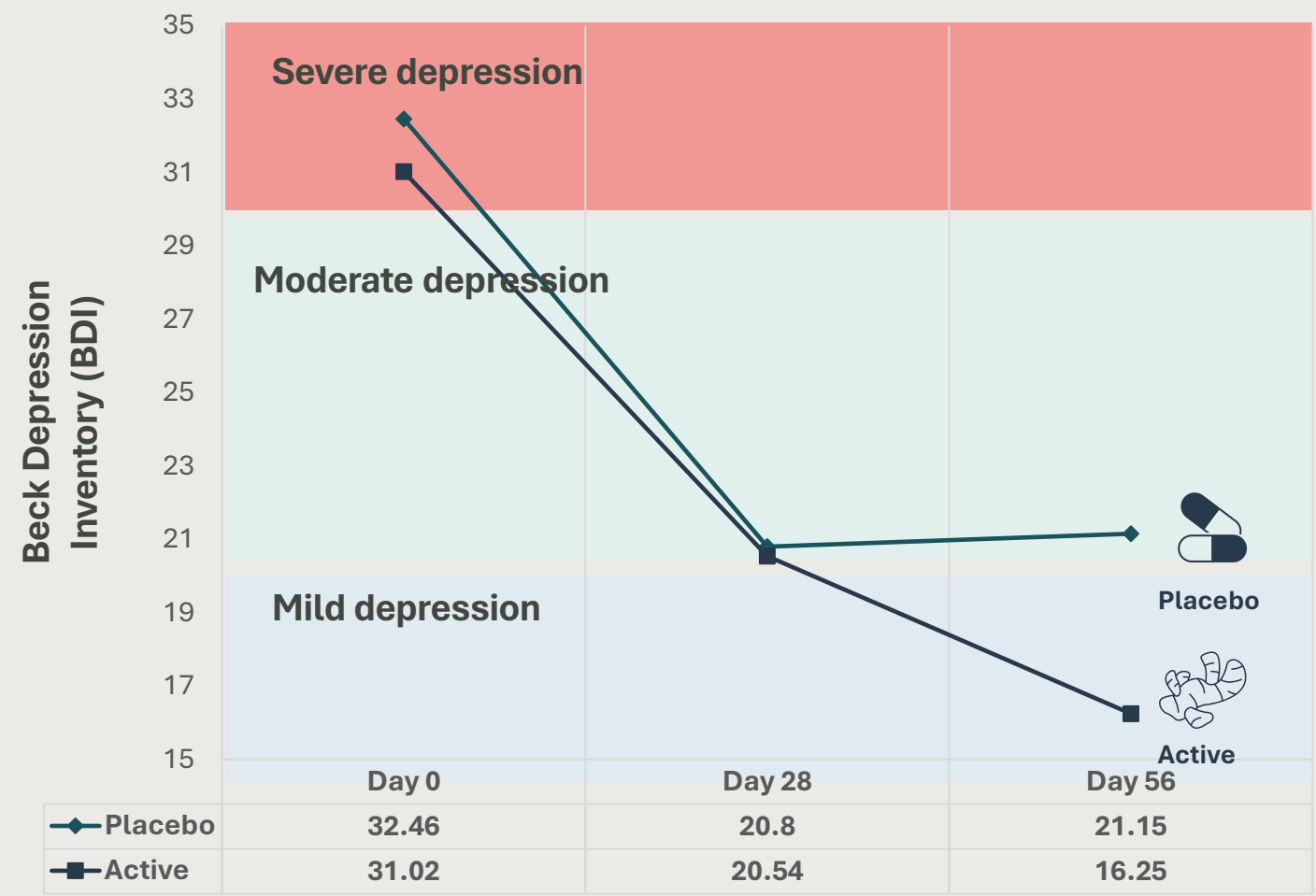
Dose = **3** tablets twice daily.

Two in the morning and two in the evening with meals.

Clinician rated depression



Self-rated depression



P=0.048

Reduced pain and neurological symptoms

- Improved stability & less balancing issues
- Reduced zapping pains behind the ear/head
- Reduced tingling
- Less physical discomfort aches/pains
- Improved blurry vision



Dr Idris La Terra ND
Melbourne

Reduced pain and neurological symptoms

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Dr Idris La Terra ND
Melbourne

Parkinson's disease



- 67-year-old man very sensitive patient -1 tablet day. Within 4 weeks his shakes were reduced by 50%
- 2 months later results weren't as noticeable - increased 2 tablet a day
- 4 months later same results his shaking reduced by 50%.
- The practitioner is so happy with the results.

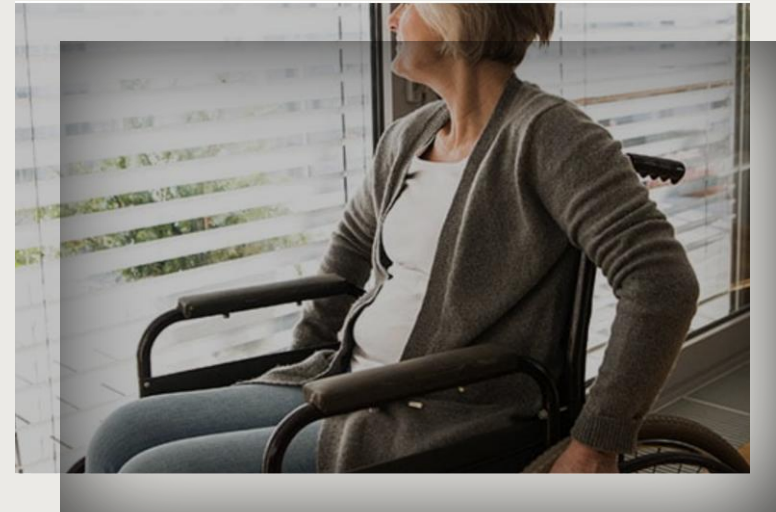
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- The practitioner is so happy with the results.

Multiple sclerosis

- Added Neuroregenex into her protocol at 2 tabs twice a day for 4 weeks and the patient noticed improvements.
- She now has the patient on just 2 tabs a day.
- The patient's symptoms have improved dramatically e.g. motor control balance and cognition.



Alzheimer's disease

- Forgets what he is saying mid-sentence, would lose his train of thought, and get very frustrated.
- Rx: Neuroregenx along with Bacopa Complex, Ginko 2:1 and EPA/DHA



Dr. Jeff Crippen, DC
Saint Jo, Texas

Alzheimer's disease

- 1 year: “Dennis seems like a new man”
 - Fluid conversation
 - Remembering places and locations
 - Reminds his wife he needs his supplements
 - More energy
 - Depression reduced and feeling more optimistic than ever



Dr. Jeff Crippen, DC
Saint Jo, Texas

Thank you

