

S E M A N A

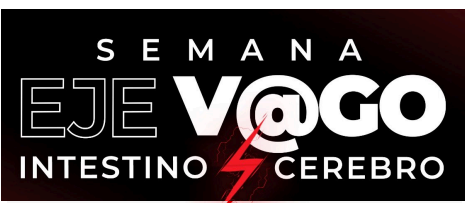
EJE V@GO

INTESTINO



CEREBRO





SEMANA
EJE V@GO
INTESTINO CEREbro

CLASE 1 **Diagnóstico oculto:**
desvelando los problemas del sistema
nervioso autónomo de su paciente crónico.

7, 8 Y 9/11
21H DE MADRID

ACTIVA EL
"NOTIFICARME"

SEMANA
EJE V@GO
INTESTINO CEREbro

CLASE 2 **Eficiencia terapéutica:**
optimizar los resultados sostenibles
en pacientes crónicos.

7, 8 Y 9/11
21H DE MADRID

ACTIVA EL
"NOTIFICARME"

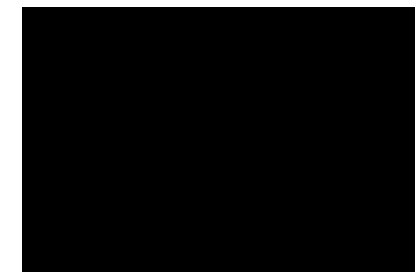


SEMANA
EJE V@GO
INTESTINO CEREbro

CLASE 3 **De la teoría a la acción:**
integrando el eje v@go intestino-cerebro
a la práctica clínica.

7, 8 Y 9/11
21H DE MADRID

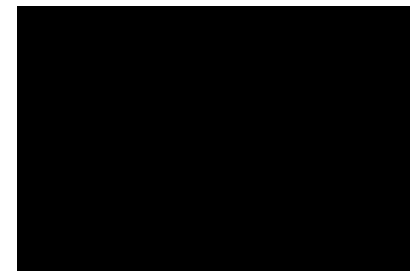
ACTIVA EL
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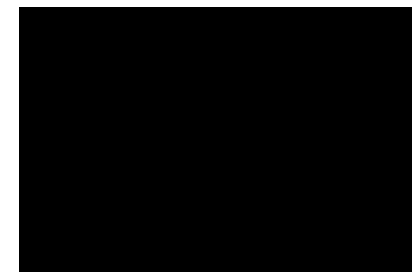
Diagnóstico oculto: Desvendando los Problemas del Sistema Nervioso Autónomo del Paciente Crónico.



Prof. MsC. Luis Gonzaga de Moura Junior



- **Relaciones del Eje Vago - Gut-Brain con la salud funcional**
- **Diagnóstico de trastornos de ejes**
- **El estrés como elemento modulador de la respuesta clínica**
- **El razonamiento clínico diferencial**



Estrés

Nutrición Funcional

Fisioterapia Moderna

Medicina Funcional

Osteopatía Moderna

Razonamiento diferencial

Salud funcional

Eje Vago - Gut Brain

Odontología Funcional

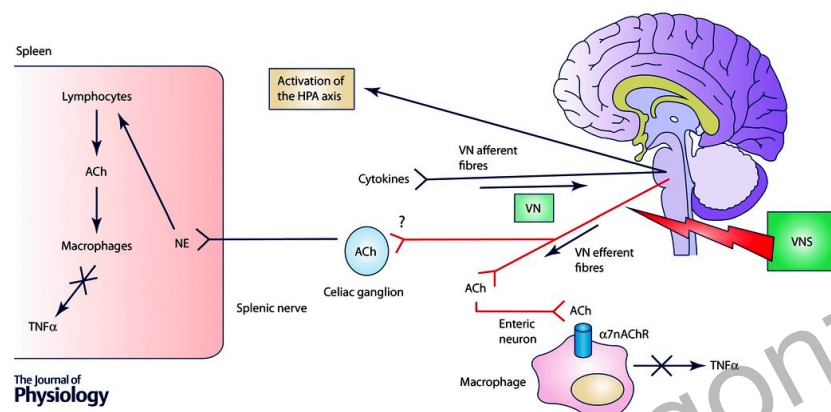
Entrenamiento

Quiropraxia Moderna

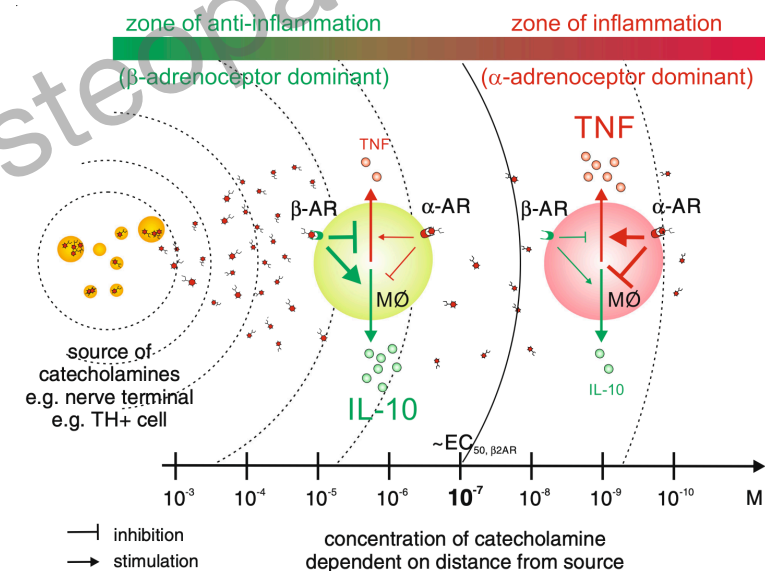
Psicología

-Diagnóstico de trastornos de ejes

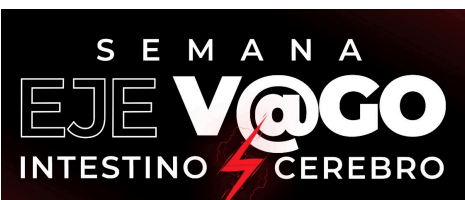
Inflamación Hipotalámica



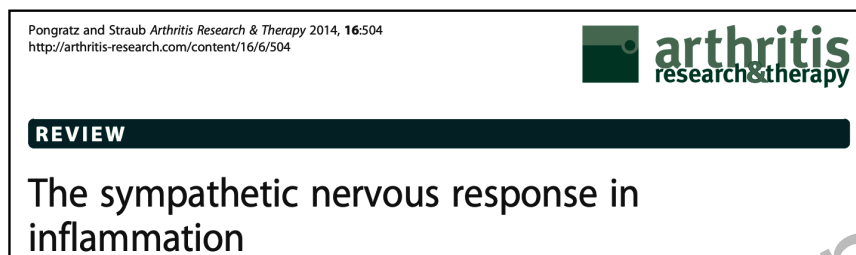
Inflamación de Bajo Grado



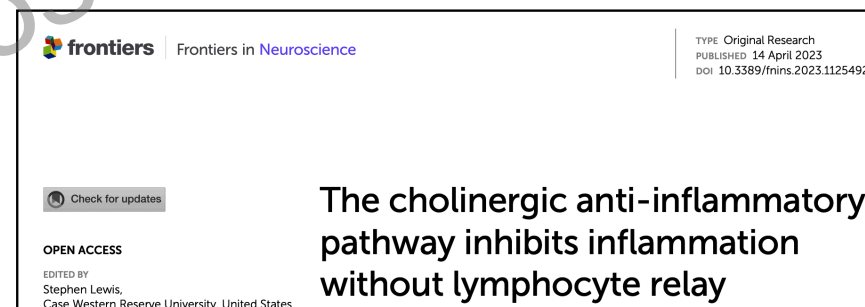
Salud funcional



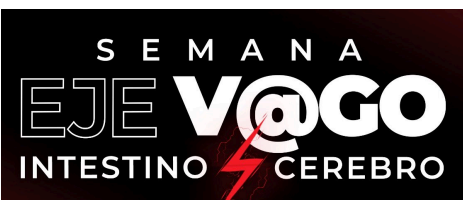
Sistema de Soporte a la Respuesta Antiinflamatoria



SNA



Salud funcional



Sistema de Soporte a la Respuesta Antiinflamatoria



frontiers
in Physiology

REVIEW
published: 27 October 2021
doi: 10.3389/fphys.2021.709438



Systematic Review

Periodontal Inflammation and Systemic Diseases: An Overview

Clinical Oral Investigations
<https://doi.org/10.1007/s00784-023-05261-2>

RESEARCH



Short-term heart rate variability at rest in individuals with temporomandibular disorder: a comparative analysis

SNA

frontiers
in Neuroscience

ORIGINAL RESEARCH
published: 23 January 2020
doi: 10.3389/fnins.2019.01447



Salud funcional

OPEN ACCESS

Edited by:
Nick Spencer,
Flinders University, Australia

Associations Between Colonic Motor Patterns and Autonomic Nervous System Activity Assessed by High-Resolution Manometry and Concurrent Heart Rate Variability

1336

Diabetes Care Volume 43, June 2020



Decreased Vagal Activity and Deviation in Sympathetic Activity Precedes Development of Diabetes

Diabetes Care 2020;43:1336–1343 | <https://doi.org/10.2337/dc19-1384>

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Eun-Jung Rhee,¹ Cheol-Young Park,¹
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Sung-Woo Park,¹ Seunggho Ryu,^{4,5,6} and
Se Eun Park¹

CLINICAL RESEARCH STUDY

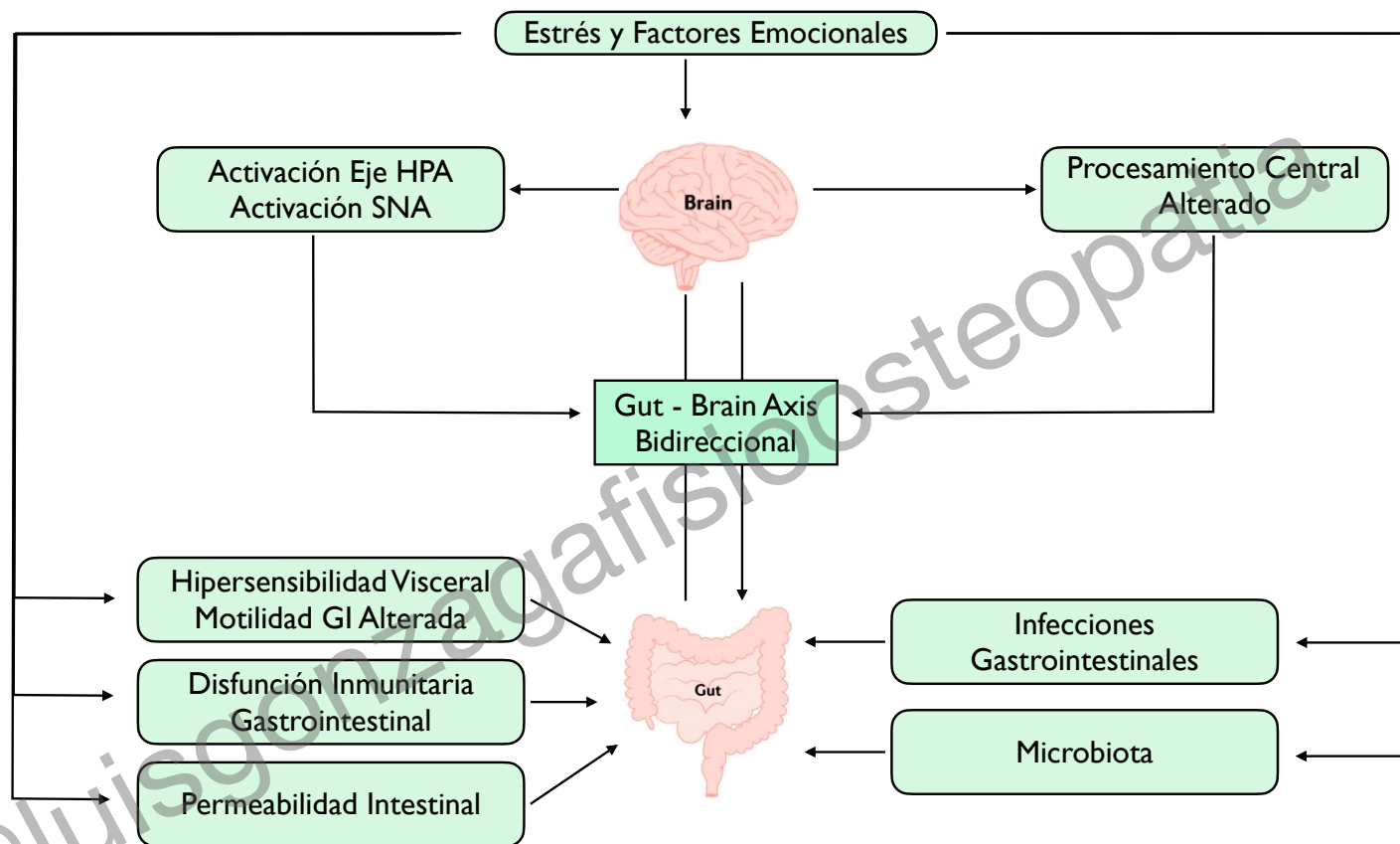
THE AMERICAN
JOURNAL of
MEDICINE

Altered Cardiac Autonomic Function May Precede Insulin Resistance in Metabolic Syndrome

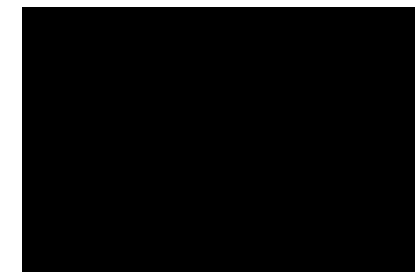
Diabetes and Back Pain: Markers of Diabetes Disease Progression Are Associated With Chronic Back Pain

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Top - Down

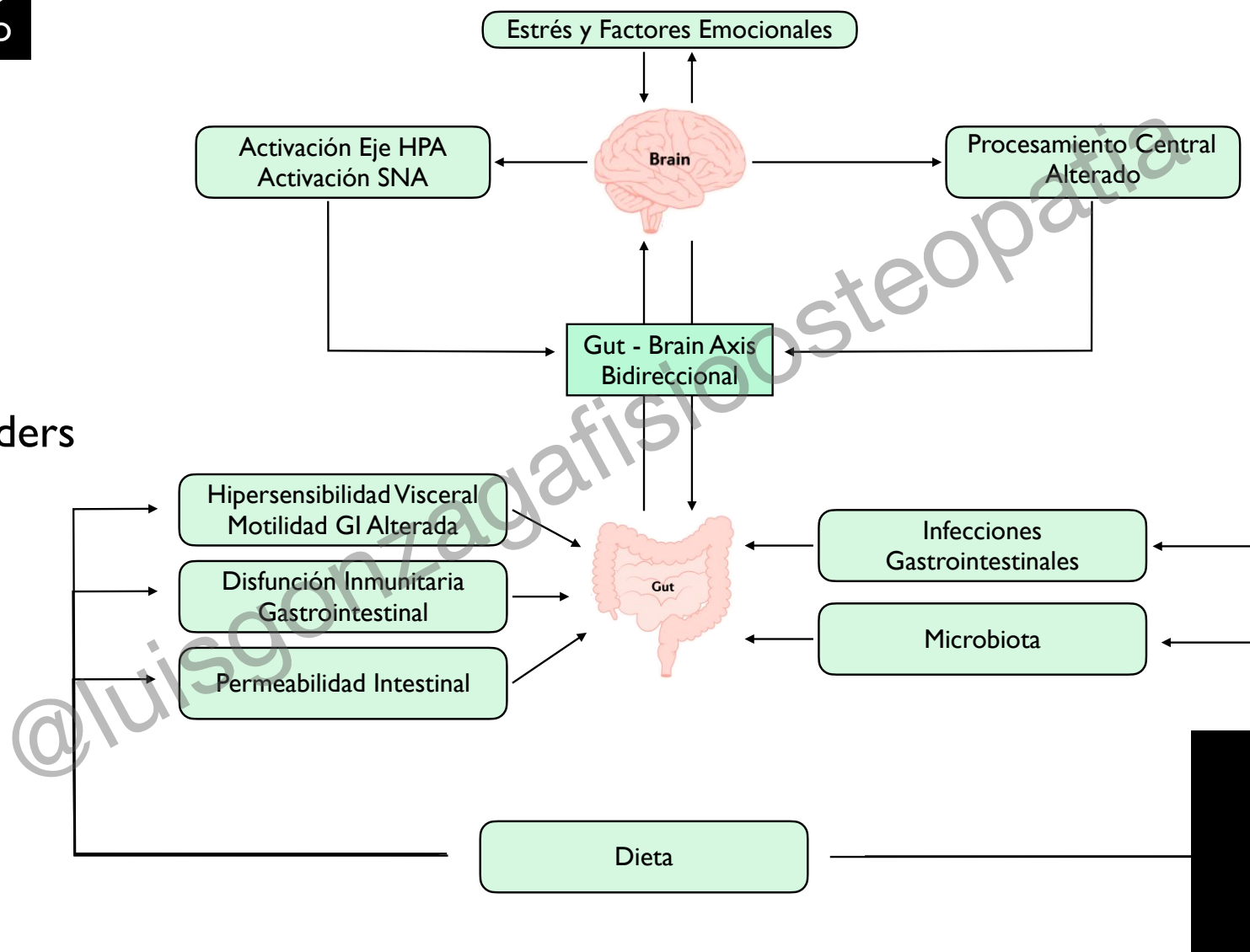


Gut - Brain Disorders



Bottom - Up

Gut - Brain Disorders



Top - Down

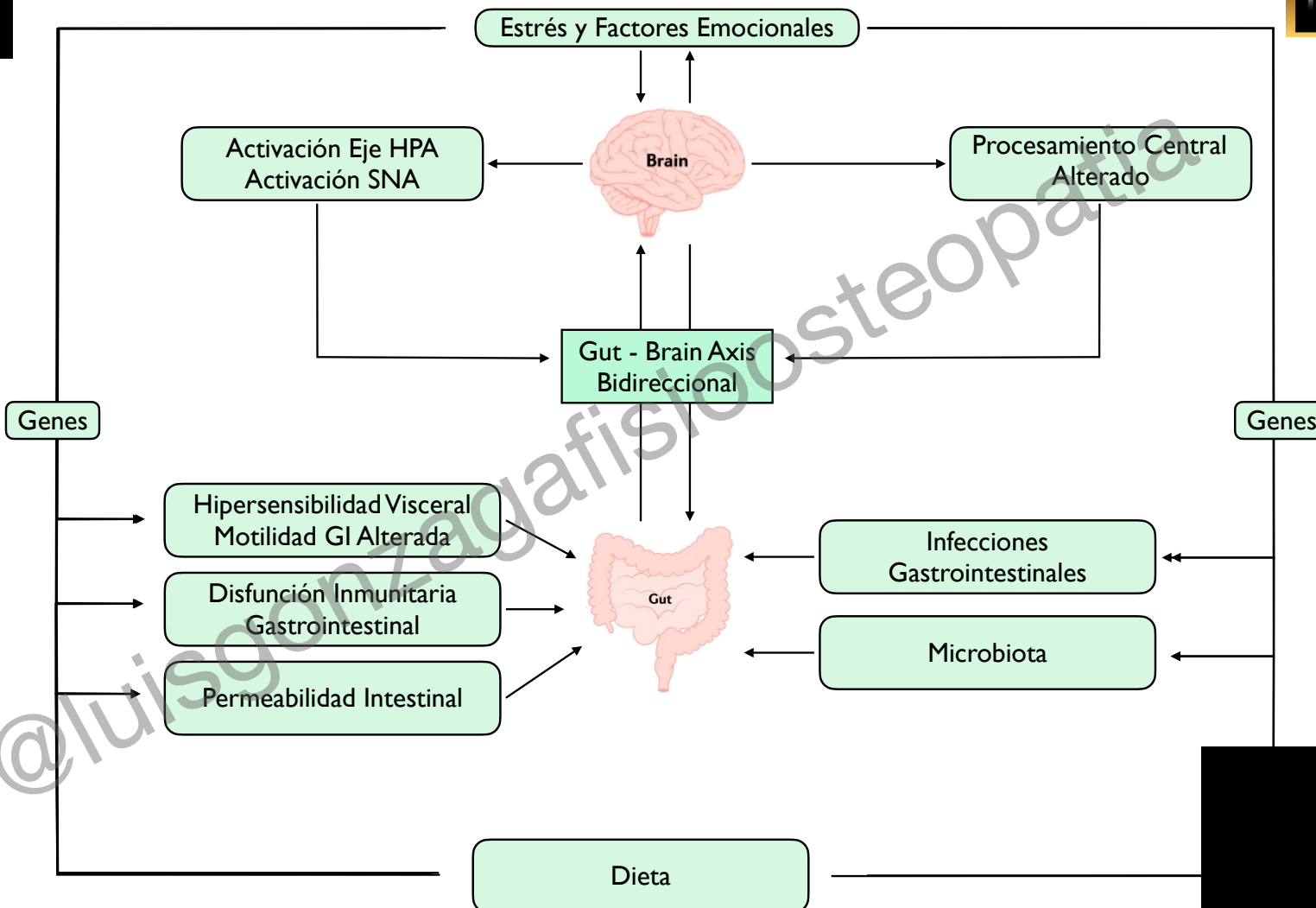
Modulación del Dolor Crónico

Manutención y retroalimentación de comorbilidades

Bottom - Up

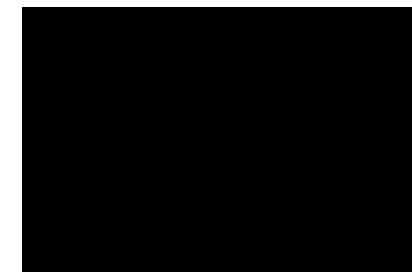
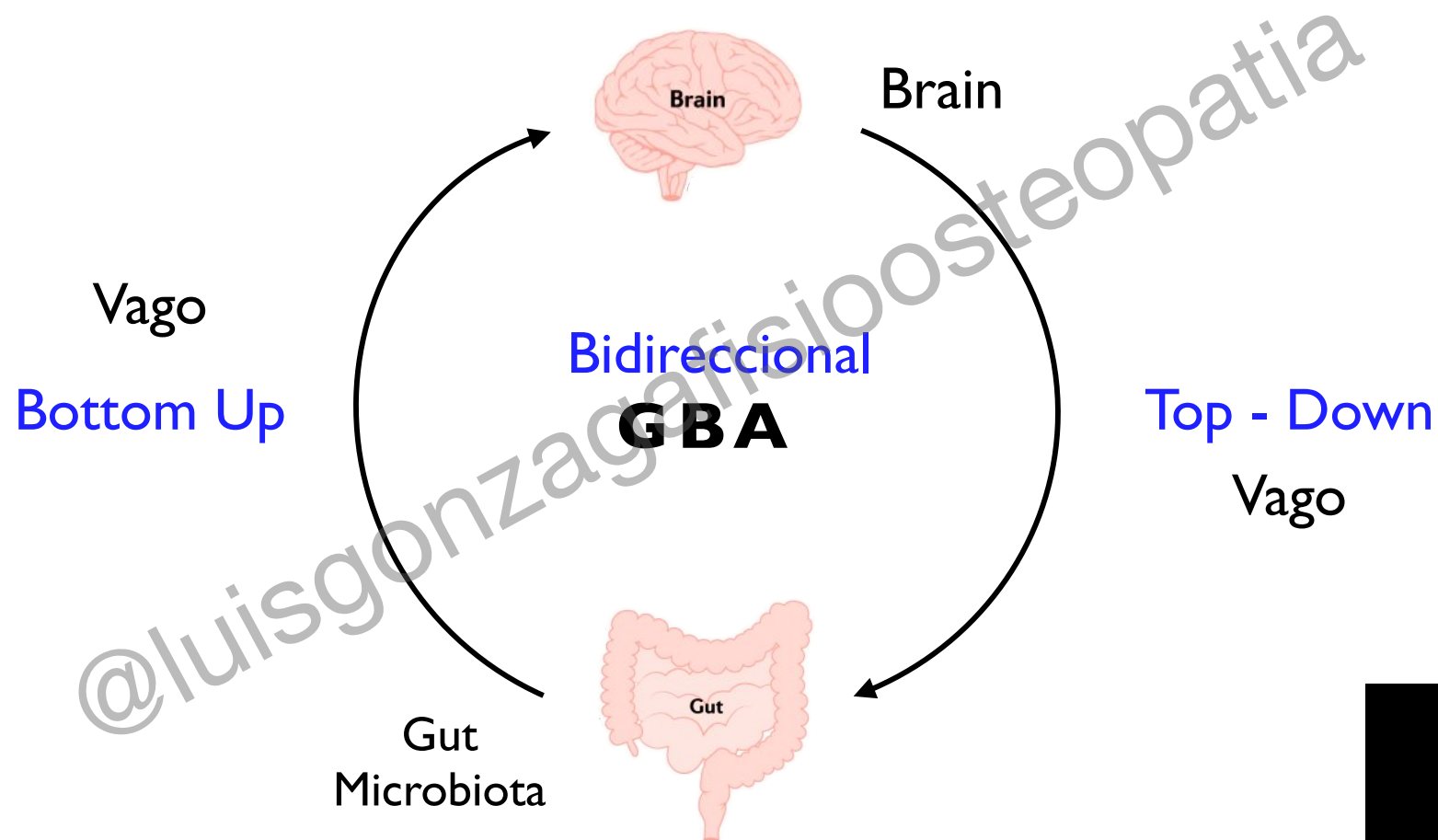
Tipo de Parto

Ambiente Familiar en la Infancia



Gut - Brain Disorders

Gut Brain Axis



Vago Gut Brain Axis

**Condiciones
Disfuncionales**

Bidireccional

Modulación del Dolor Crónico

Manutención y
retroalimentación de
comorbilidades

Inflamación

Bloating

Gases

Dolor Visceral

Estreñimiento

Diarrea

Digestiones

Náusea / Vomito

Reflujo GE

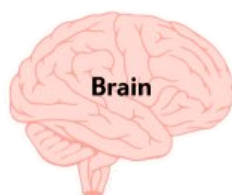
Ansiedad

Depresión

Estado de ánimo

Humor

Estrés crónico



Top - Down

Salud Mental

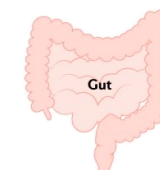
SNA

HRV

Salud

Gastrointestinal

Bottom-Up



Vago Gut Brain Axis

Condiciones Disfuncionales



Review

Heart Rate Variability and Pain: A Systematic Review



World Journal of
Gastroenterology

Submit a Manuscript: <http://www.wjgnet.com/esps/>
Help Desk: <http://www.wjgnet.com/esps/helpdesk.aspx>
DOI: 10.3748/wjg.v23.i1.103

World J Gastroenterol 2017 January 7; 23(1): 103-109
ISSN 1007-9327 (print) ISSN 2219-2840 (online)
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ORIGINAL ARTICLE

Case Control Study

High risk of temporomandibular disorder in irritable bowel syndrome: Is there a correlation with greater illness severity?

Gut

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BMJ

[Gut](#). 2000 Dec; 47(6): 861–869.

doi: [10.1136/gut.47.6.861](https://doi.org/10.1136/gut.47.6.861)

The neurobiology of stress and gastrointestinal disease

DIALOGUES IN CLINICAL NEUROSCIENCE
2022, VOL. 24, NO. 1, 1–9
<https://doi.org/10.1080/19585969.2022.2128697>



Taylor & Francis
Taylor & Francis Group

RESEARCH ARTICLE

OPEN ACCESS

Check for updates

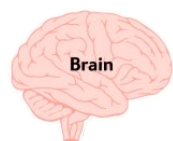
Cardiac vagal activity is associated with gut-microbiome patterns in women—An exploratory pilot study

SCIENTIFIC
REPORTS
nature research

OPEN

Visualizing the trigeminovagal complex in the human medulla by combining ex-vivo ultra-high resolution structural MRI and polarized light imaging microscopy

Received: 18 February 2019
Accepted: 22 July 2019
Published online: 05 August 2019



Brain

Top - Down

Bottom-Up



Gut

Vago Gut Brain Axis

Trastornos de Regulación

Top - Down
Bottom-Up

Salud Mental

Ansiedad
Depresión
Estado de ánimo
Humor
Estrés crónico

Dolor Crónico

TDAH

Parkinson

Migrañas

Insomnio

Diabetes

Metabólicas



Obesidad

Esclerosis
Múltiple

Estrés Crónico

IBS

GERD

Musculoesqueléticas

Endocrinas

Salud Gastrointestinal

Inflamación

Bloating

Gases

Dolor Visceral

Estreñimiento

Diarrea

Vago Gut Brain Axis

Trastornos de Regulación

Top - Down
Bottom-Up

Salud Mental

Ansiedad
Depresión
Estado de ánimo
Humor
Estrés crónico

Dolor Crónico

TDAH

Parkinson

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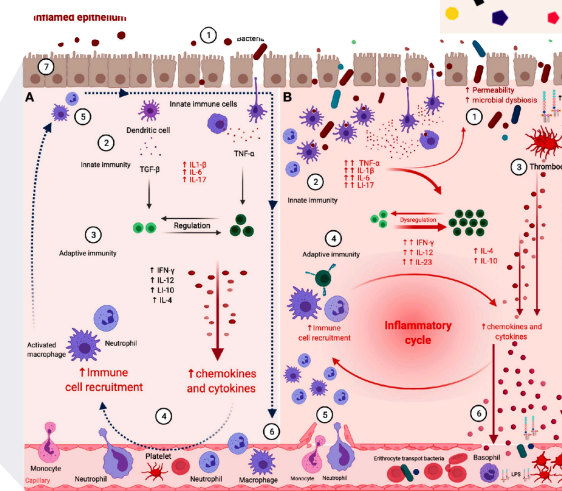
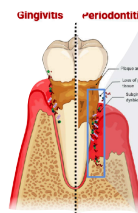
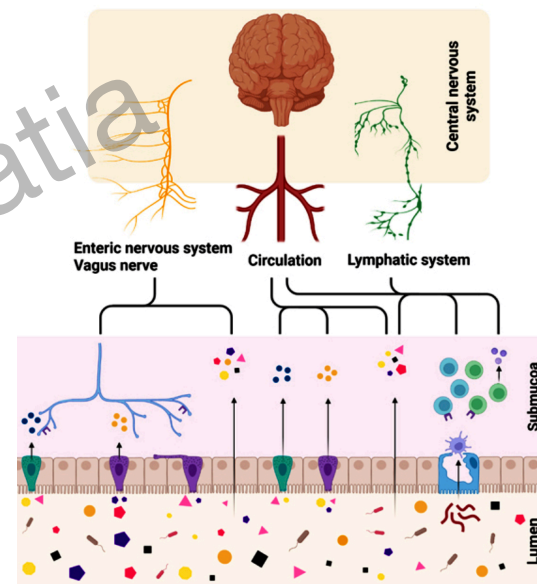
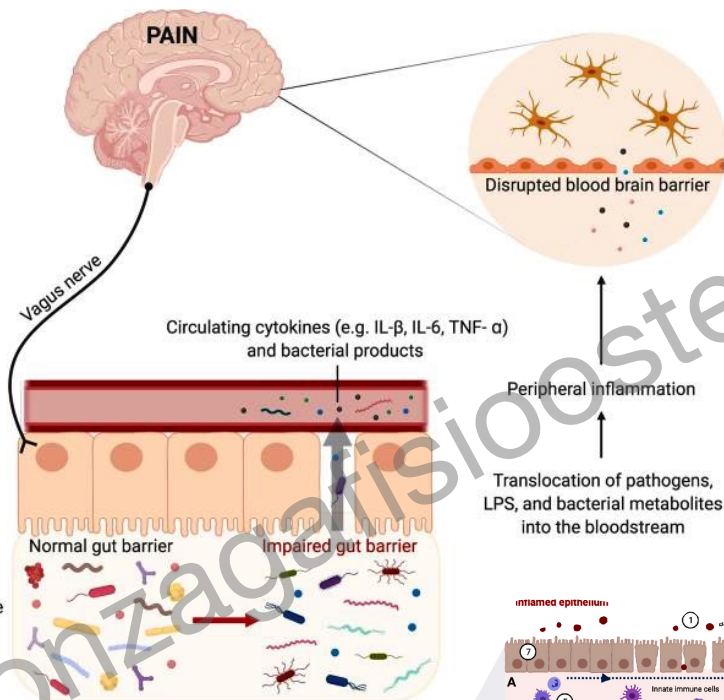
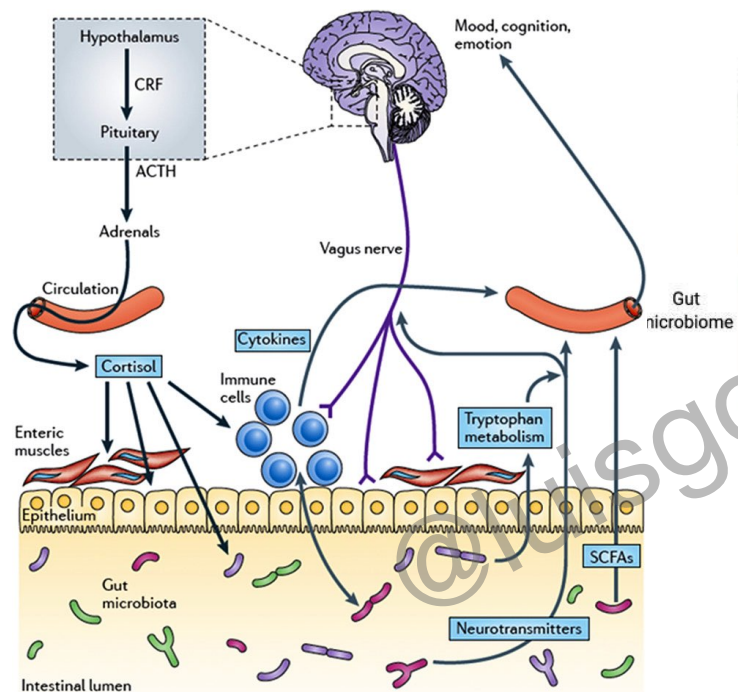
Estreñimiento

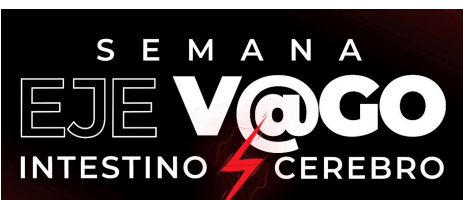
Diarrea



Vago Gut Brain Axis

Relaciones de Sistemas





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frontiers
in Physiology

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Salud funcional

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CLINICAL RESEARCH STUDY

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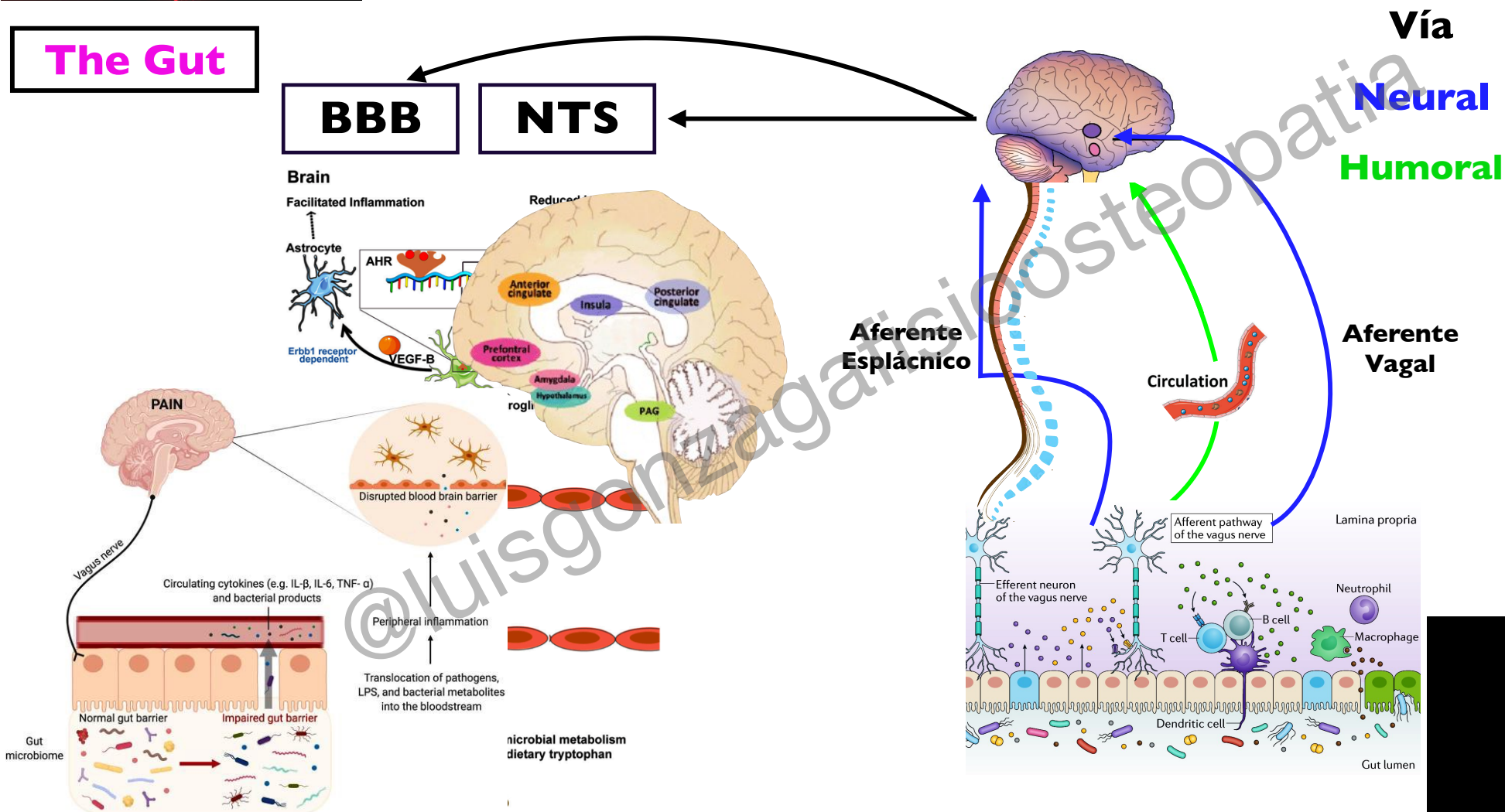
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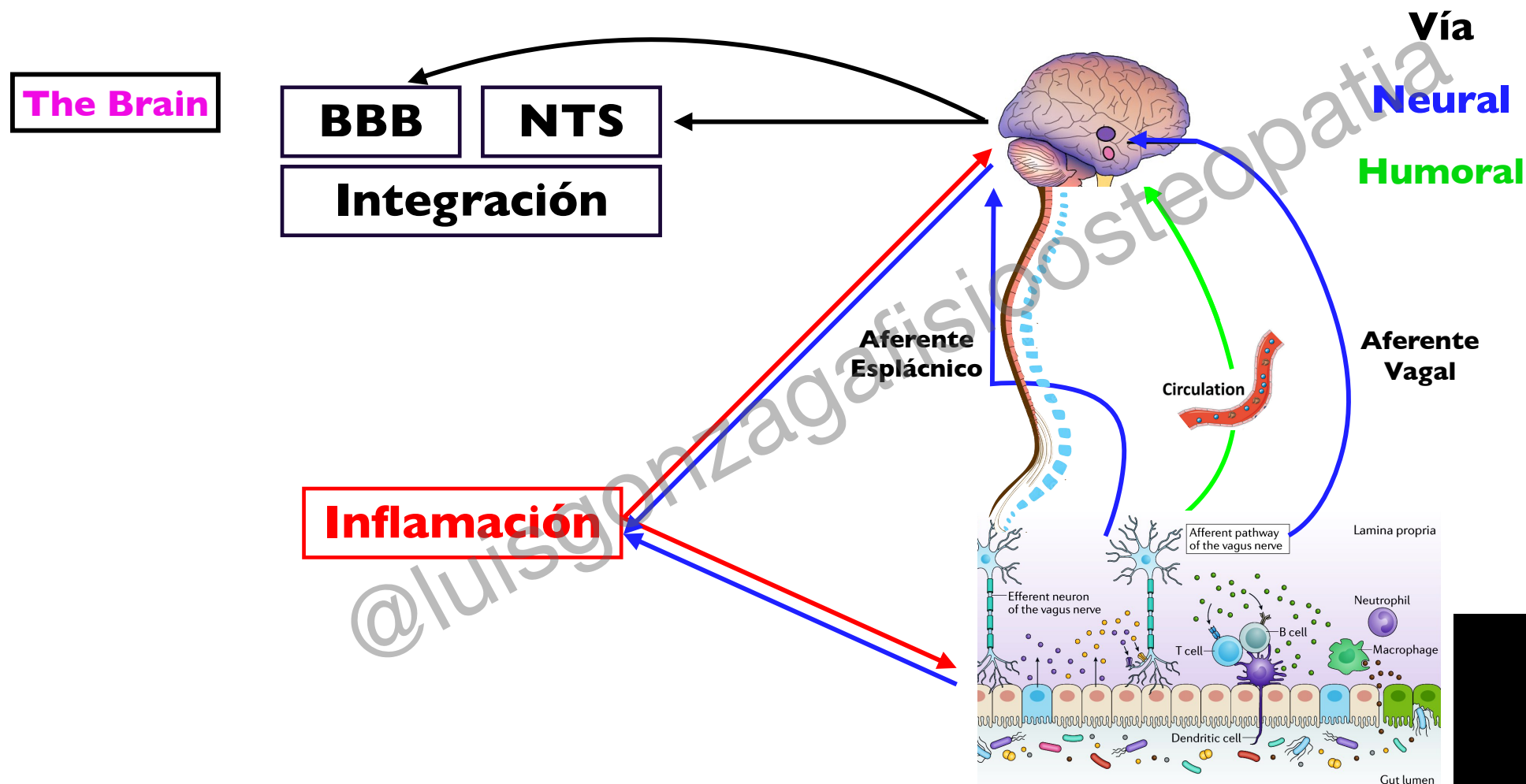
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Vago Gut Brain Axis

The Gut

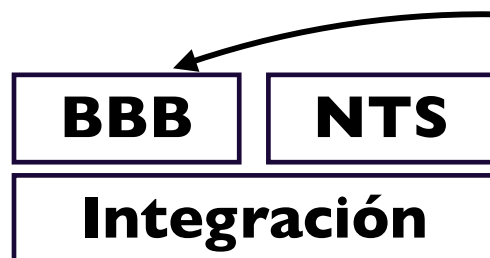


Vago Gut Brain Axis



Vago Gut Brain Axis

The Brain



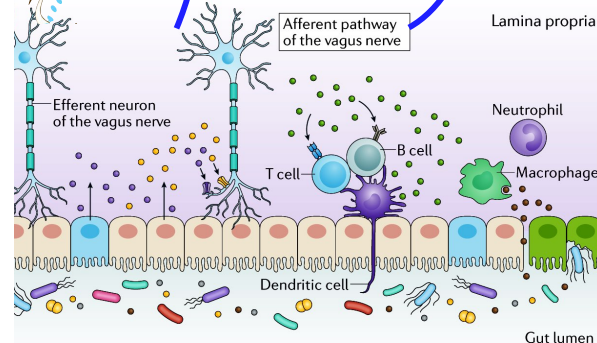
Inflamación

Vía
Neural
Humoral

Aferente
Esplácrico

Aferente
Vagal

Circulation

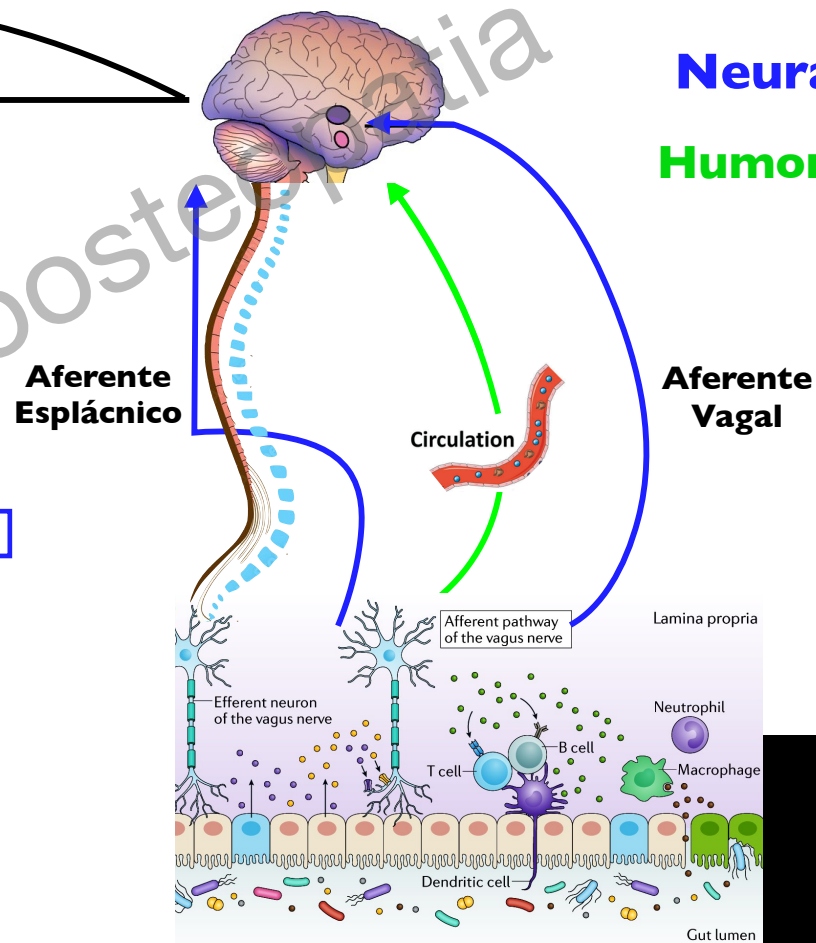
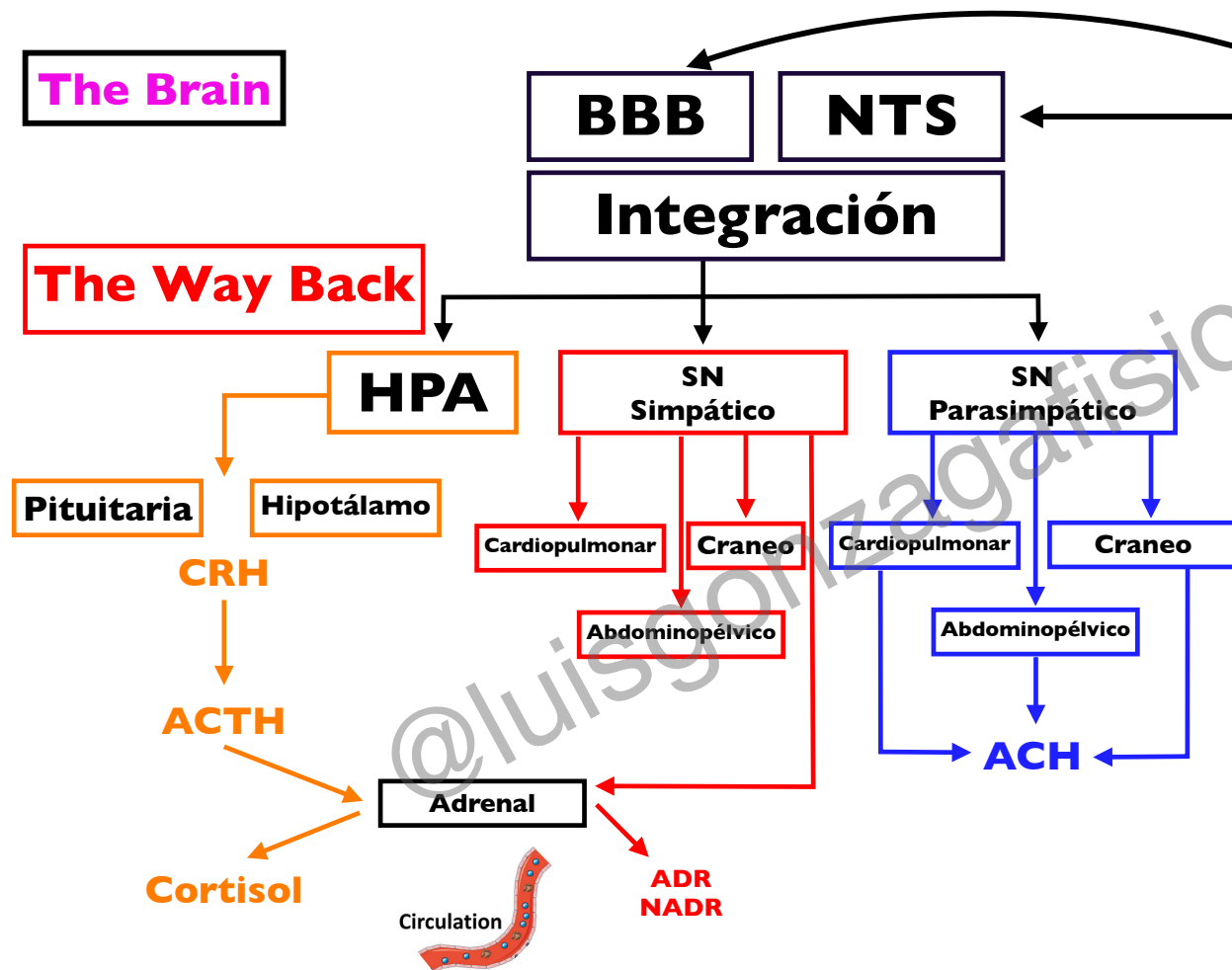


Vago Gut Brain Axis

Vía

Neural

Humoral



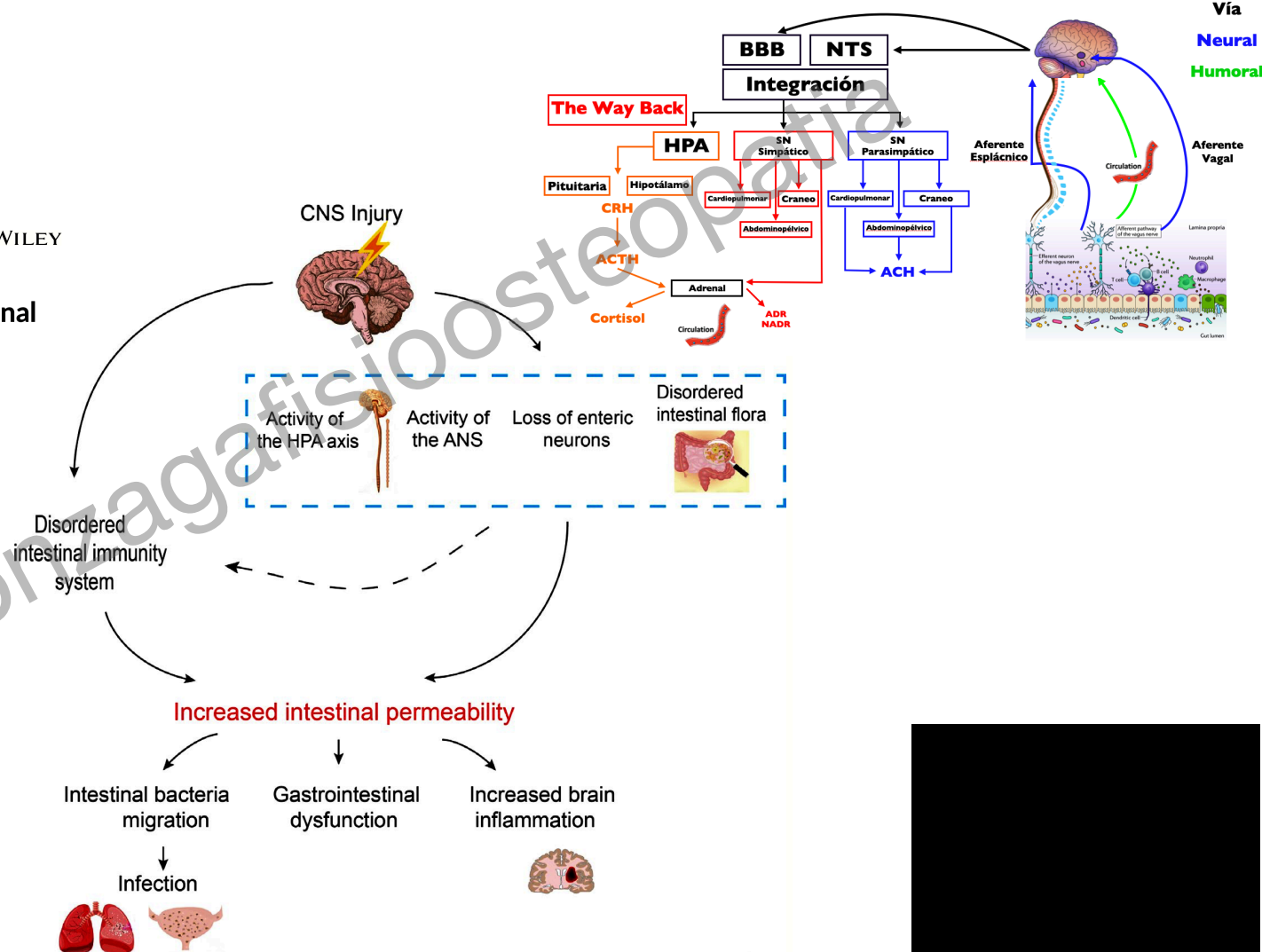
El Circuito

REVIEW ARTICLE

CNS Neuroscience & Therapeutics WILEY

Bidirectional Brain-gut-microbiota Axis in increased intestinal permeability induced by central nervous system injury

Vago Gut Brain Axis



Vago Gut Brain Axis

El Circuito

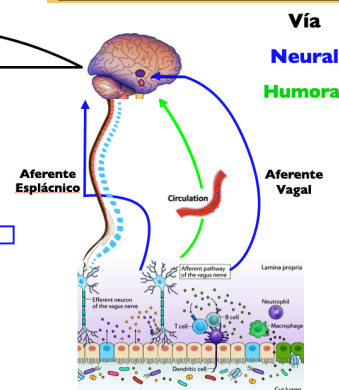
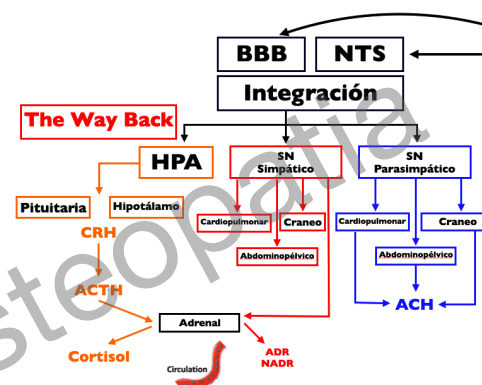
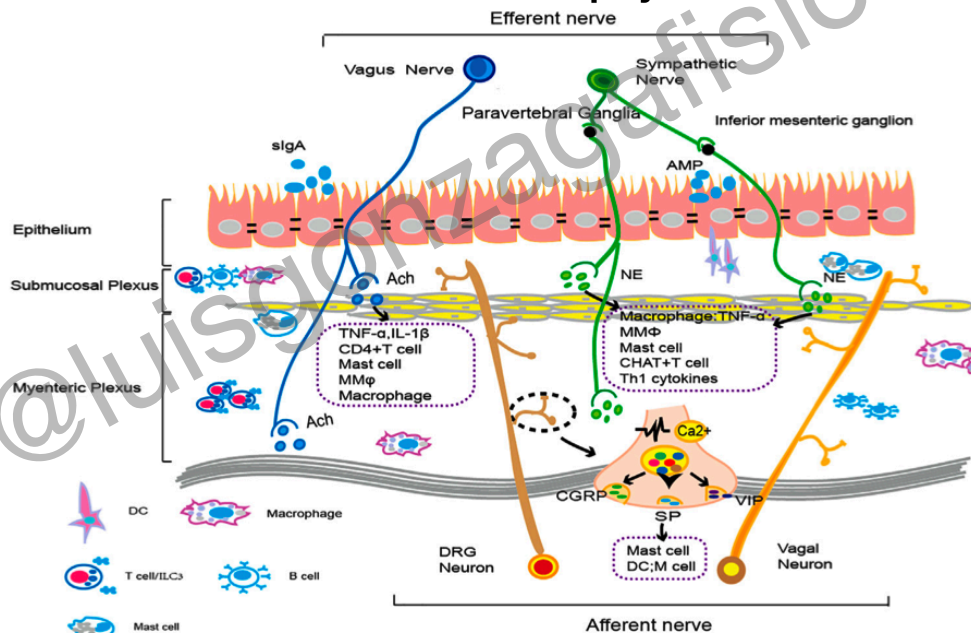
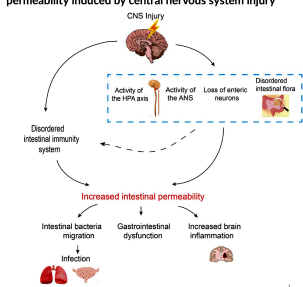
frontiers
in Pharmacology

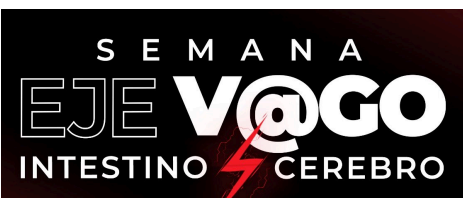
REVIEW
published: 31 May 2021
doi: 10.3389/fphar.2021.659716



Intestinal Mucosal Barrier Is Regulated by Intestinal Tract Neuro-Immune Interplay

Bidirectional Brain-gut-microbiota Axis in increased intestinal permeability induced by central nervous system injury





Fisioterapia Moderna

Osteopatía Moderna

Entrenamiento

Psicología

Quiropraxia Moderna

Odontología Funcional

Nutrición Funcional

Medicina Funcional



**“Encontraremos un camino,
y si no, lo crearemos.”**

