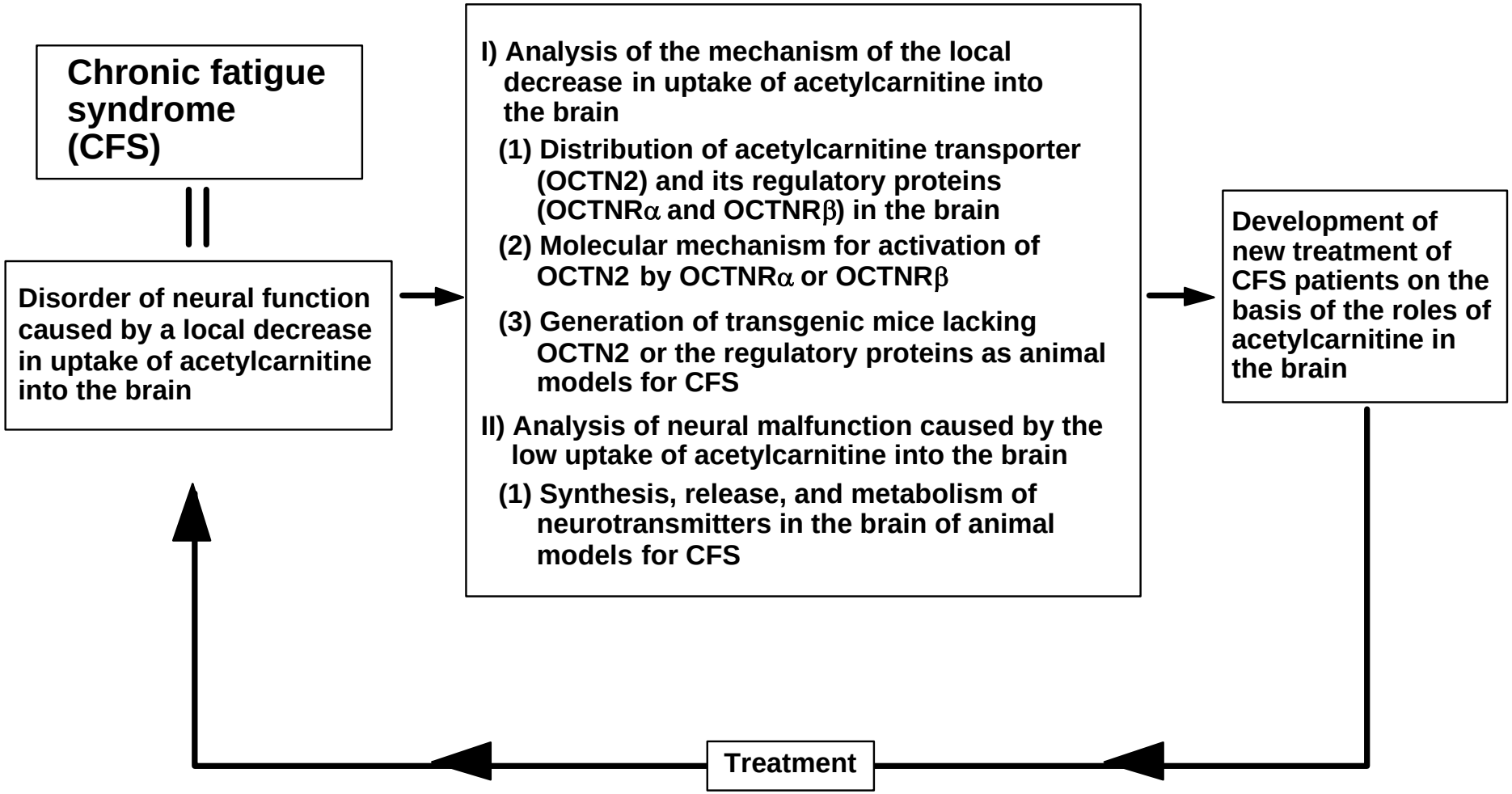
Chronic fatigue syndrome (CFS)
||
Disorder of neural function caused by a local decrease in uptake of acetylcarnitine into the brain
I) Analysis of the mechanism of the local decrease in uptake of acetylcarnitine into the brain
(1) Distribution of acetylcarnitine transporter (OCTN2) and its regulatory proteins (OCTNRα and OCTNRβ) in the brain
(2) Molecular mechanism for activation of OCTN2 by OCTNRα or OCTNRβ
(3) Generation of transgenic mice lacking OCTN2 or the regulatory proteins as animal models for CFS
II) Analysis of neural malfunction caused by the low uptake of acetylcarnitine into the brain
(1) Synthesis, release, and metabolism of neurotransmitters in the brain of animal models for CFS
Development of new treatment of CFS patients on the basis of the roles of acetylcarnitine in the brain
Treatment