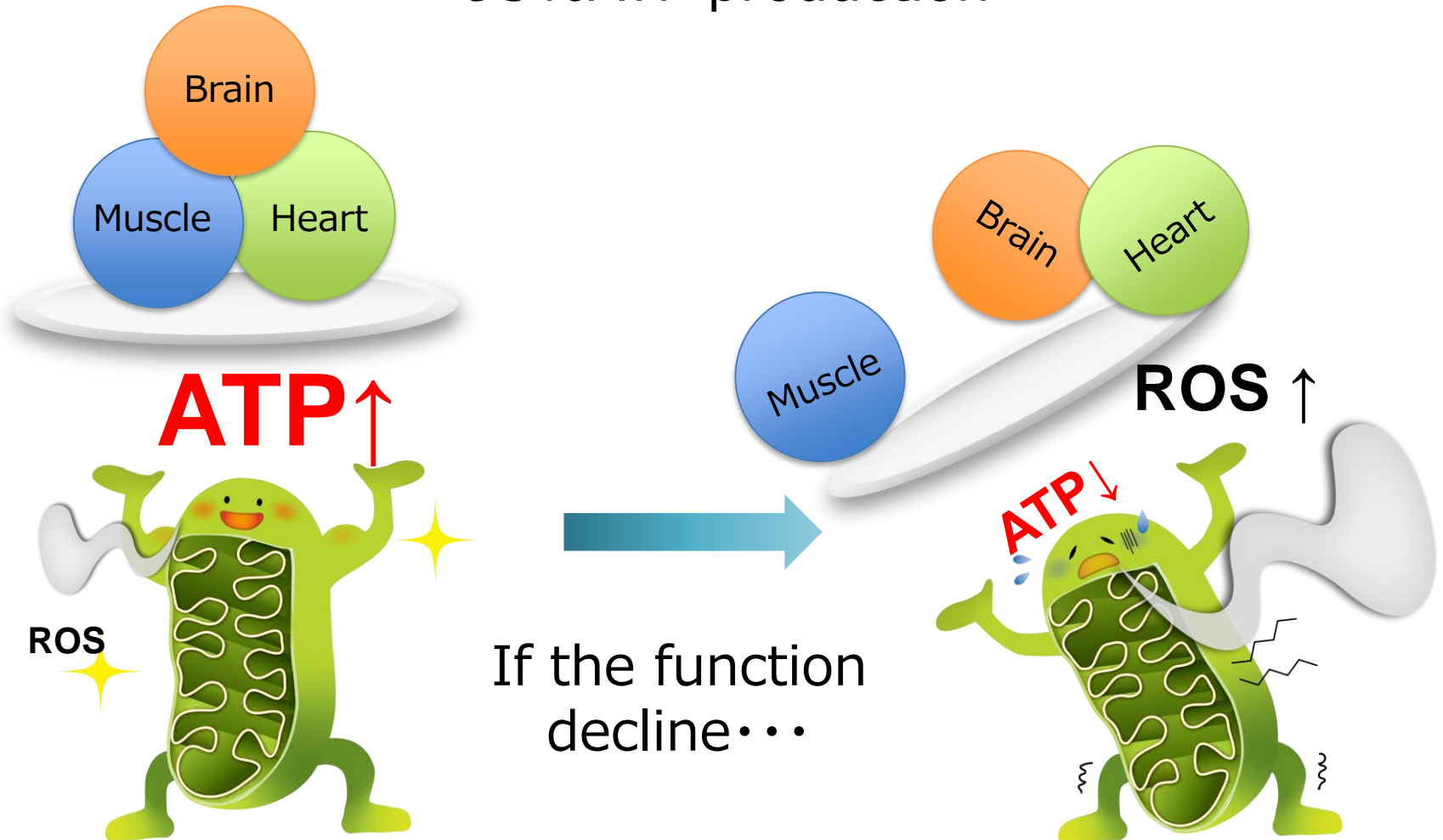


What 's mitochondria

- Energy plan within the cell
- ~95%ATP production



Mitochondrial disease (broad) & aging (narrow)

- ATP depletion (hypoxia, ischemia)
- Cell death by ROS

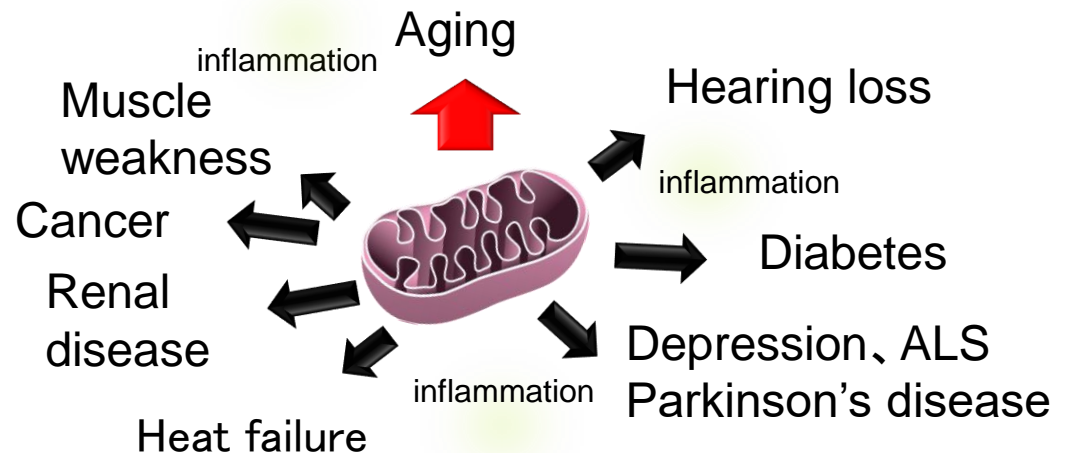
Mitochondrial diseases

Rare diseases
without effecting drugs

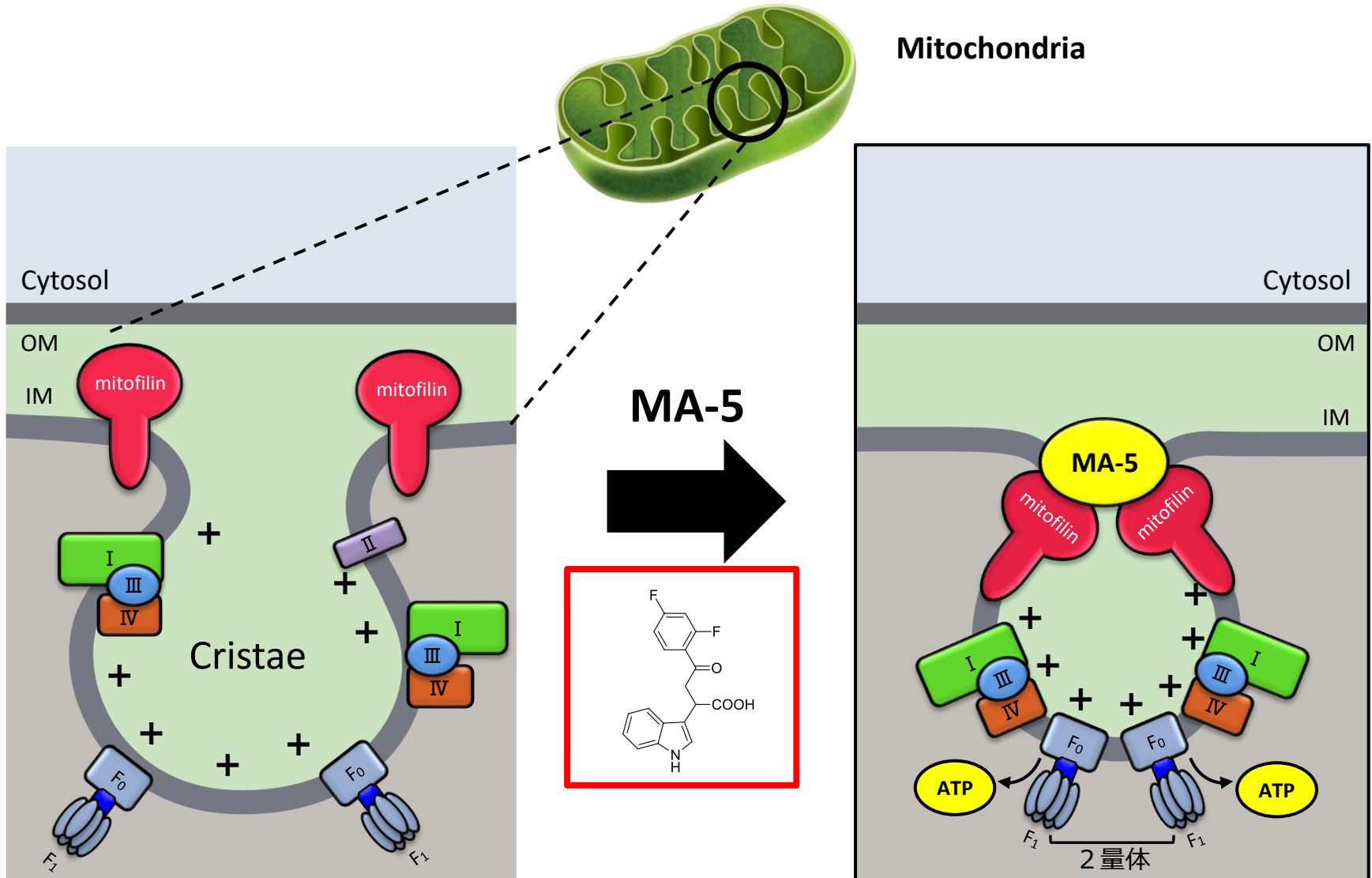


- Leigh syndrome
- MELAS
- Lebe's disease
- KSS syndrome

Aging

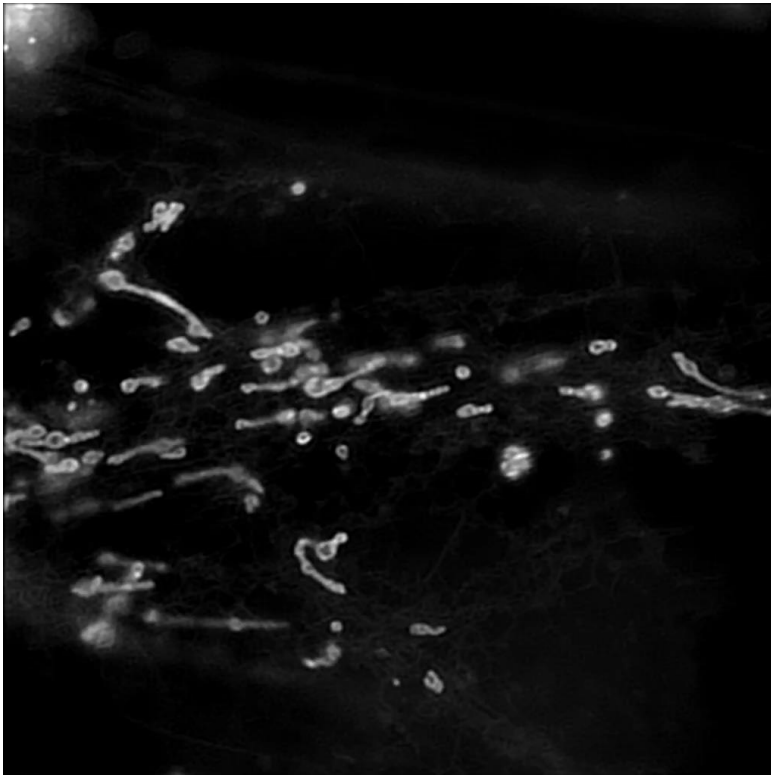


MA-5 facilitates ATP production through accelerating dimerization of ATP synthase binding mitofilin

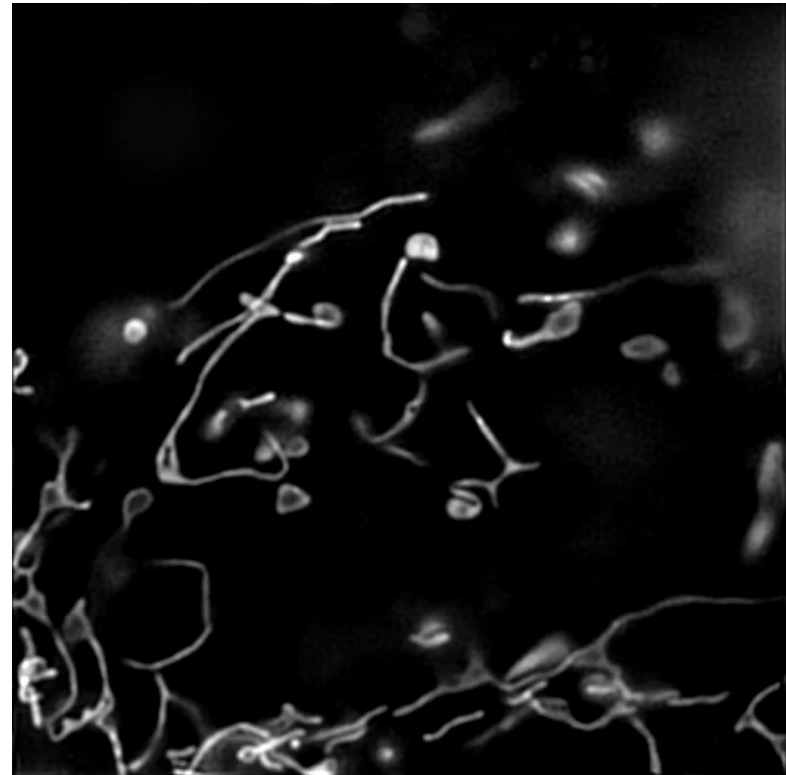


MA-5 improve mitochondrial dynamics

Patient's mitochondria



with MA-5



Developing new drug



Clinical trials



Examine the safety and effectiveness in human

I

Phase I

Small number of healthy volunteers
Examine the safety and kinetics

II

Phase II

Small number of patients
Examine the safety and effectiveness

III

Phase III

Large number of patients
Confirm the safety and effectiveness

Improving mitochondrial function helps many age-related diseases

