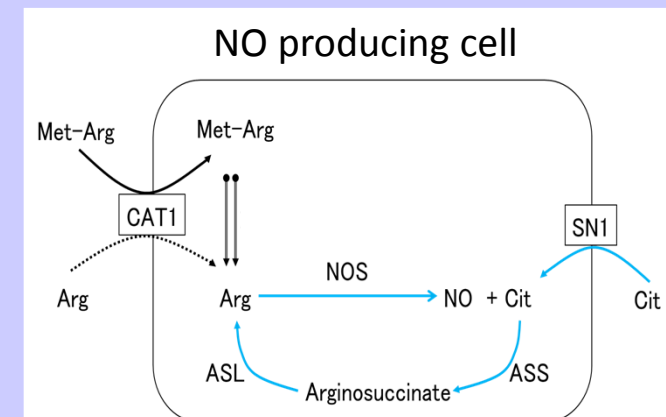


# Citrulline-Supplemented Amino Acids Solution for Treatment of Organ Failure Through Maintaining Nitric Oxide Production

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## Research Area

- (1) Molecular mechanism of citrulline–Nitric Oxide cycle in oxidant stress by ischemic–reperfusion with citrulline supplementation.
- (2) Development of citrulline–supplemented amino acid solution for intestinal failure–associated liver failure
- (3) Evaluation of the efficacy of citrulline–supplemented amino acids solution for chronic renal failure and sarcopenia.



## Recent Activities

- Shwachman–Diamond syndrome: Nationwide survey and systematic review in Japan. *Pediatr Int.* 2018;60:719–726.
- Clinical practice guidelines for congenital hyperinsulinism. *Clin Pediatr Endocrinol.* 2017;26:127–152
- Pulmonary Arterial Pressure Management Based on Oral Medicine for Pediatric Living Donor Liver Transplant With Portopulmonary Hypertension. *Transplant Proc.* 2018;50:2614–2618.