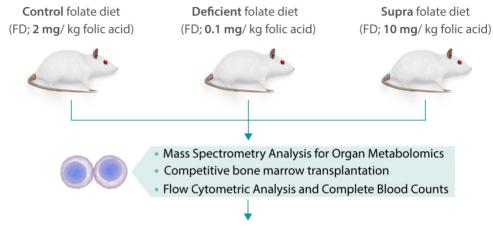
Folate dietary insufficiency and folic acid supplementation similarly impair metabolism and compromise hematopoiesis



Both low and high levels of dietary folate

- Promote similar metabolic defects in hematopoietic cells
 particularly evident for nucleotide biosynthetic pathways in B-progenitor cells
- Compromise hematopoiesis
 defective cell cycle progression
 persistent DNA damage
 impaired production of lymphocytes
- Impair Hematopoietic Reconstitution Post-Irradiation and increase radiation-induced mortality