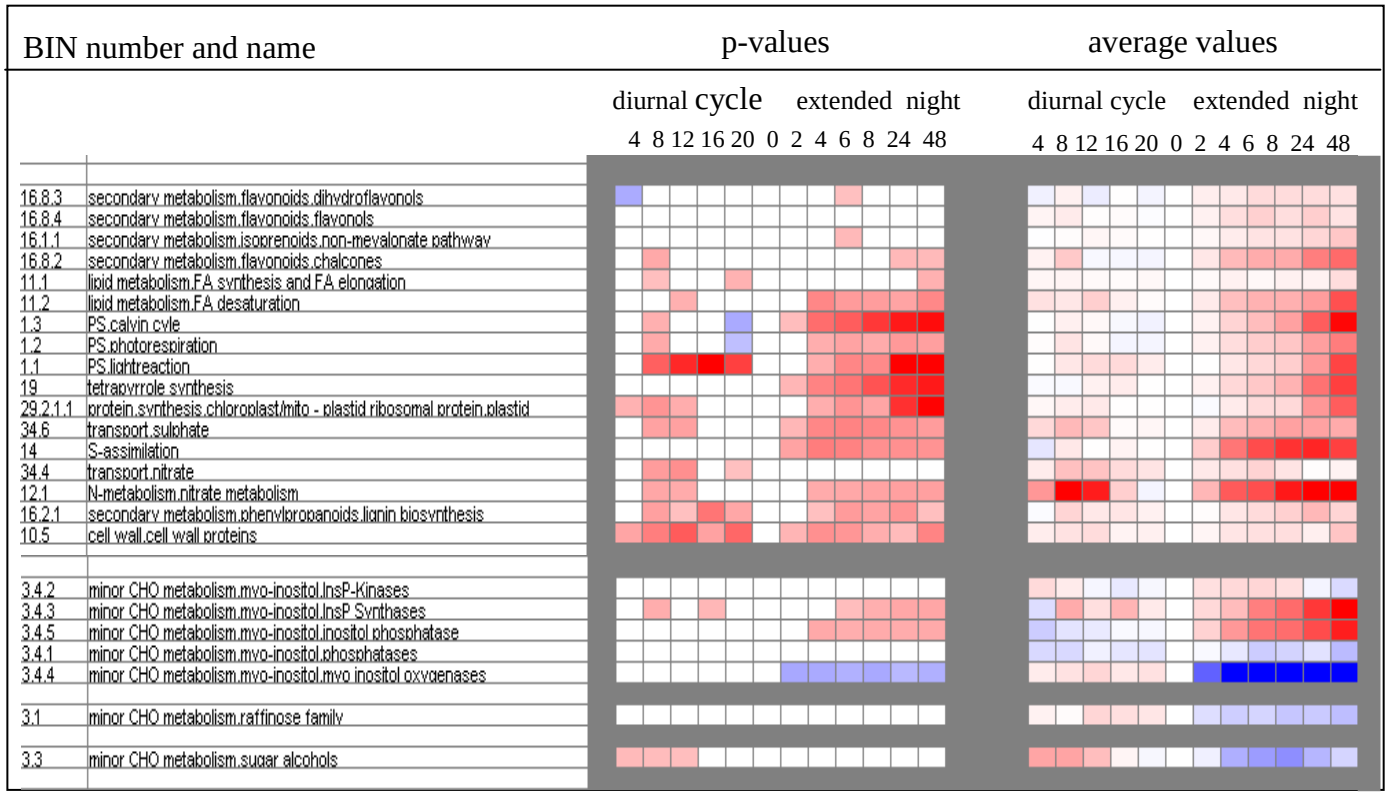Suppl- Figure S4A