

## AMARANT - SOME FLAVONOIDS AND THEIR BIOLOGICAL ACTIVITY

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### ABSTRACT

*The article presents information about secondary metabolic compounds, namely flavonoids and phytosterols, as well as their properties in the components of the amaranth plant. The article also mentions the importance of amaranth in folk medicine and modern medicine.*

**KEYWORDS:** *Amaranth, Folk Medicine, Biologically Active Compounds, Flavonoids, Phytosterols.*

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### REFERENCES

1. I.R.Asqarov. "Tabobat qomusi". Tashkent. "MUMTOZ SO`Z». 2019.1142 p.
2. I.R.Asqarov. "Sirli tabobat". Tashkent. "Fan va texnologiyalar nashriyot-matbaa uyi», 2021. 1084 p.
3. Gins V.K., Gins M.S., Torres Mino K.X., Pivovarov V.F., Kononkov P.F. Functional products of nutrition from seeds and amaranth lists. M.: VNISSOK, 2015.
4. Repo-Carrasco-Valencia R, Hellstrom JK, Pihlava JM, Mattila PH. 2010. "Flavonoids and other phenolic compounds in Andean indigenous grains: Quinoa (*Chenopodium quinoa*), kaniwa (*Chenopodium pallidicaule*) and kiwicha (*Amaranthus caudatus*). Food Chem 120: 128–33
5. Kalinova J, Dadakova E. 2009. Rutin and total quercetin content in amaranth (*Amaranthus* spp.). Plant Food Hum Nutr 64: 68–74

6. Ogrodowska D, Czaplicki S, Zadernowski R, Mattila P, Hellstrom J, Naczka M. 2012. Phenolic acids in seeds and products obtained from *Amaranthus cruentus*. *J Food Nutr Res* 51: 96–101.
7. Marcone, M.F., Kakuda, Y., and Yada, R.Y. (2003). Amaranth as a rich dietary source of beta-sitosterol and other phytosterols. *Plant Foods Hum. Nutr.* 58: 207–211.