EuroSciCon

7th Edition of International Conference on

Pharmacognosy and Medicinal Plants

March 11-12, 2019
London, UK

Fatima Zahra Marhoume et al., Am J Ethnomed 2019, Volume 6
DOI: 10.21767/2348-9502-C1-008

Anti-aggregant effect of *Rubia tinctorum* extracts on platelets *in vitro* and *ex vivo*

Fatima Zahra Marhoume[1, 2], Abdellah Bagri[1], Hicham Boufous[1, 2], Mehdi Ait Laaradia[2] and **Abderrahman Chait[2]**

[1]Université Hassan-Ier, Morocco

[2]University Cadi Ayyad, Morocco

Platelets play pivotal role in primary hemostasis and several cardiovascular diseases (CVD) in athero-thrombotic disease and are associated with an increase in blood platelets aggregation. *Rubia tinctorum* (RT) extracts was investigated for anti-aggregant activity induced by collagen *in vitro* and *ex vivo* by measuring the bleeding time and platelets count. Our finding demonstrated that RT extract showed a significant (P<0.001) inhibition of collagen induced platelets aggregation (1.48±0.76, n=3). This results correlate well with data of bleeding time and platelet count. Phytochemical analysis revealed the presence of flavonoids which may be implicated in this action.

Biography

Fatima Zahra Marhoume currently working as a professor in Laboratory of Pharmacology, Neurobiology and Behavior, Semlalia Faculty of Sciences, Cadi Ayyad University, Marrakech, Morocco.