

SCIENTIA 4.0

ORAL ABSTRACT

EVALUATION OF ANTI-ARTHRITIC POTENTIAL OF DENDROPHTHOE FALCATA LINN. LEAVES USING ISOLATED EXOSOMES AS DRUG CARRIER SYSTEM (Times New Roman, Font size 14)

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Arthritis “Disease of the joints” It’s defined as an Acute/Chronic joint inflammation that coexists with pain and structural damage. Rheumatoid arthritis (RA) is an Autoimmune disease characterized by inflammation of the joints, bone and cartilage erosion, and pain of joints such as- Synovial membrane causing an inflammatory response. *D. Falcata* is a hemi parasitic shrub traditionally considered an important source of medicines. Extract of *Dendrophthoe Falcata Linn.* leaves was prepared with ethyl acetate. Our study shows that *Dendrophthoe Falcata Linn.* leaves ethyl acetate fraction has anti-inflammatory and anti-rheumatoid activity. EADF 100mg/kg has a better effect than 50 mg/kg. Exosomes isolated from Plasma fluid and loaded as a drug. The exosome-loaded drug has a significantly better effect than 100 mg/kg drug extract. The modulation in the physical parameters, level of inflammatory mediators, and oxidative stress also improved haematological parameters like HB level, ESR, WBC, and RBC count with the treatment of EADF and exosomes loaded drug. (Times New Roman, Font size 12)

Keywords: Exosomes, Anti-arthritis, *Dendrophthoe falcata*, Drug delivery

Abstract should not exceed 250 words