

Review of: "Phyto-Therapeutic Potential and Pharmaceutical Impact of Shilajit (*Asphaltum punjabianam*): Current Research and Future Prospects"

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Potential competing interests: No potential competing interests to declare.

The paper is very interesting with an excellent topic, extensively covered.

However, the sentences are often confused, disconnected, unclear, inaccurate. As a microbiologist, I will give an example of antimicrobial activity.

Antimicrobial activity: In a research conducted in vitro, shilajit prevented the development of **both kinds of bacteria**, including ones that may cause human illnesses, demonstrating potentially good anti-microbial activity . In vitro, shilajit extraction at various ratios inhibited **S. aureus** but had no impact on E. coli . Similar to prior research, shilajit extract had good efficacy against several microorganisms. The most affected organisms were E. coli . **Exposed to UV light, all known bacterial strains were resistant to shilajit's antifungal effect,** however, it may have had considerable antibacterial activity against *Penicillium chrysogenum* . Shilajit supplementation at a level of 2g/kg or 4g/kg has been shown in a study to enhance *M. rosenbergii* immunity, disease resistance, and antioxidant activity against *A. hydrophila* . Whereas another research discovered that treatment for individuals with pulmonary tuberculosis was shortened when shilajit was administered . A different study found that shilajit effectively inhibits *E. coli* bacteria. This finding may be connected to the fulvic and benzoic acidic components found in shilajit. .

1. What are the two types of bacteria?
2. It is mandatory to write species names in italics and with a dot after the genus abbreviation.
3. Disagreement in asserting the effect of the plant extract on *E. coli*.
4. One sentence mentions that all bacterial strains are sensitive to the antifungal effect of the extract. What were the authors thinking, completely incorrect!!!!
5. The whole text about the antimicrobial effect is confusing and inaccurate. A complete change will be required. A complete revision of the text in the paper is required.