

Supplementary data



Plate 1: Figure (A-C). Photographs of basidiomata of *Ziaracha rubra*.
Scale Bar: A-C = 1 cm, A=1.43 × 1 cm, B=0.43 × 1 cm, C=1 × 1 cm.

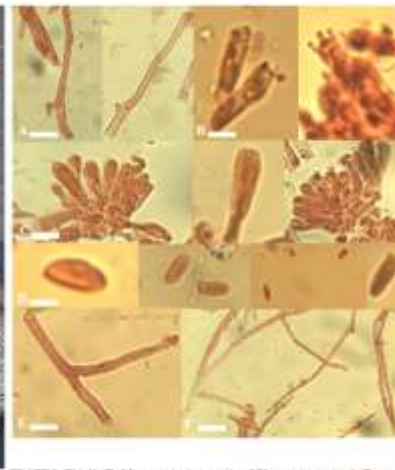


PLATE 2: Fig. (A-F). Microscopic photographs of *Ziaracha rubra*. A. Trunkal hyphae, B. Basidia, C. Cystidia, D. Basidiospores, E. Pleurospores, F. Sterigmata.
Scale Bar: A. 2.81µm × 1cm, B. 8.7 µm × 1cm by 4.84 × 1, C. 9.1 µm × 1 (width), D. 8.6 µm × 1cm (width), E. 1.86 µm × 1cm, F. 5.45 × 1.



Plate 3: Figure (A-C). Photographs of basidiomata of *Ziaracha gossypina*.
Scale Bar: A-C = 1 cm, A=0.43 × 1 cm, B=1.43 × 1 cm, C=1 × 1 cm.

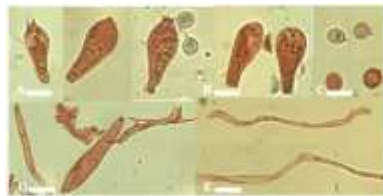


Plate 4: Fig. (A-F). Microscopic photographs of *Ziaracha gossypina*.
A. Basidia, B. Cystidia, C. Basidiospores, D. Pleurospores, E. Sterigmata, F. Trunkal hyphae.
Scale Bar: A. 2.84µm × 1cm, B. 8.7 µm × 1cm by 6.94 × 1, C. 9.3 µm × 1 (width), D. 8.6 µm × 1cm (width), E. 1.86 µm × 1cm, F. 3.45 × 1.



Plate 5: Figure (A-C). Photographs of basidiomata of *Ziaracha integra*.
Scale Bar: A-D = 1 cm, A=1.77 × 1 cm, B=0.4 × 1 cm, C=0.68 × 1 cm, D=0.8 × 1 cm.



Plate 6: Fig. (A-F). Microscopic photographs of *Ziaracha integra*. A. Basidia, B. Cystidia, C. Basidiospores, D. Trunkal hyphae, E. Pleurospores, F. Sterigmata.
Scale Bar: A. 8.21µm × 1cm, B. 11.43 µm × 1cm by 8.97 × 1, C. 9.3 µm × 1 (width), D. 11.01 µm × 1cm (width), E. 1 µm × 1cm, F. 21.31 × 1 µm.



Plate 7: Figure (A-E). Photographs of basidiomata of *Ziaracha filipes*.
A. Basidiomata, B. Stipe, C. pores, D. attachment of stipe and E. cap color.
Scale Bar: A-E = 1 cm, A=1.2 × 1 cm, B=0.625 × 1 cm, C=1 × 1 cm, D=0.25 × 1 cm.



Plate 8: Fig. (A-E). Microscopic photographs of *Ziaracha filipes*. A. Basidia, B. Cystidia, C. Basidiospores, D. Pleurospores, E. Sterigmata.
Scale Bar: A. 12.93µm × 1cm, B. 11.06 µm × 1cm by 10 × 1, C. 7.26 µm × 1 (width), D. 24.7 µm × 1cm (width), E. 17.31 µm × 1cm.



Plate 9: Figure (A-E). Photographs of basidiomata of *Ziaracha capitata*.
A. Basidiomata, B. cap, C. attachment of gills, D. stipe and E. gills arrangement.
Scale Bar: A-E = 1 cm, A=0.1 × 1 cm, B=0.3 × 1 cm, C=0.38 × 1 cm, D=0.34 × 1 cm.



Plate 10: Fig. (A-E). Microscopic photographs of *Ziaracha capitata*. A. Basidia, B. Cystidia, C. Basidiospores, D. Pleurospores, E. Sterigmata.
Scale Bar: A. 17.87µm × 1cm, B. 18.86 µm × 1cm by 11.28 × 1, C. 13.85 µm × 1 (width), D. 19.3µm × 1cm (width), E. 34.62µm × 1cm.

Supplementary data



Plate 12: Fig. (A-E). Microscopic photographs of *Laccaria anetholica*. A: Basidia, B: Cystidia, C: Basidiospores, D: Pleurocystidia, E: Sterigmata.
Scale Bar: A: 8.33 $\mu\text{m} \times 1 \text{ cm}$, B: 8.33 $\mu\text{m} \times 1 \text{ cm}$, C: 13.33 $\mu\text{m} \times 3 (\text{width})$, D: 3 $\mu\text{m} \times 1 \text{ cm}$ (width), E: 20.15 $\mu\text{m} \times 1 \text{ cm}$



Plate 13: Figure (A-E). Photographs of basidiomata of *Laccaria anetholica*.
Scale Bar: A-E = 1 cm, A=4.1 $\times 1 \text{ cm}$, B=0.41 $\times 1 \text{ cm}$, C=0.44 $\times 1 \text{ cm}$, D=0.4 $\times 1 \text{ cm}$.



Plate 14: Fig. (A-E). Microscopic photographs of *L. anetholica*.
A: Basidia, B: Cystidia, C: Basidiospores, D: Pleurocystidia, E: Sterigmata.
Scale Bar: A: 12.10 $\mu\text{m} \times 1 \text{ cm}$, B: 30.07 $\mu\text{m} \times 1 \text{ cm}$, C: 27.68 $\mu\text{m} \times 1 (\text{width})$, D: 27.55 $\mu\text{m} \times 1 \text{ cm}$ (width), E: 20.22 $\mu\text{m} \times 1 \text{ cm}$.

Plate 15: Figure (A-E). Photographs of basidiomata of *L. anetholica*.
Scale Bar: A-E = 1 cm, A=2.2 $\times 1 \text{ cm}$, B=0.74 $\times 1 \text{ cm}$, C=0.09 $\times 1 \text{ cm}$.



Plate 16: Fig. (A-E). Microscopic photographs of *L. anetholica*.
A: Basidia, B: Cystidia, C: Basidiospores, D: Pleurocystidia, E: Sterigmata.
Scale Bar: A: 7.17 $\mu\text{m} \times 1 \text{ cm}$, B: 25.84 $\mu\text{m} \times 1 \text{ cm}$, C: 11.51 $\mu\text{m} \times 3 (\text{width})$, D: 40.88 $\mu\text{m} \times 1 \text{ cm}$ (width), E: 15.35 $\mu\text{m} \times 1 \text{ cm}$.



Plate 17: Figure (A-D). Photographs of basidiomata of *L. anetholica*.
Scale Bar: A-D = 1 cm, A=0.55 $\times 1 \text{ cm}$, B=0.55 $\times 1 \text{ cm}$, C=0 $\times 1 \text{ cm}$, D=0.55 $\times 1 \text{ cm}$.

Plate 18: Fig. (A-E). Microscopic photographs of *L. anetholica*.

A: Basidia, B: Cystidia, C: Basidiospores, D: Pleurocystidia, E: Sterigmata.
Scale Bar: A: 14.58 $\mu\text{m} \times 1 \text{ cm}$, B: 10.18 $\mu\text{m} \times 1 \text{ cm}$, C: 20.4 $\mu\text{m} \times 1 (\text{width})$, D: 23.2 $\mu\text{m} \times 1 \text{ cm}$ (width), E: 25.71 $\mu\text{m} \times 1 \text{ cm}$.