Roussoella acaciae
**Fungal Planet 305 – 24 November 2014**

**Roussoella acaciae** Crous & M.J. Wingf. *sp. nov.*

*Etymology.* Name reflects the host genus *Acacia*, from which this species was isolated.

*Conidiomata* eustromatic, multilocular, separate, globose, immersed, brown, up to 200 µm diam, opening via central ostiole, exuding a brown conidial mass; wall of 3–6 layers of brown *textura angularis*. *Conidiophores* reduced to conidiogenous cells. *Conidiogenous cells* lining the inner cavity, hyaline, smooth, ampulliform to doliiform, 3–7 × 5–7 µm, with prominent periclinal thickening at apex, or with tightly aggregated percurrent proliferations at apex. *Conidia* solitary, pale to medium brown, smooth, guttulate, subcylindrical, straight to slightly curved, apex obtuse, base truncate, 2–3 µm diam, mostly central, but at times also displaced laterally, (5–)6–7(–10) × (2–)2.5–3 µm.

*Culture characteristics.* — Colonies flat, spreading, with sparse aerial mycelium and even, smooth margin, reaching 6 mm diam after 2 wk at 25 °C in the dark. On MEA surface olivaceous-grey with patches of pale luteous, reverse sienna in centre, orange in outer region. On OA olivaceous-grey in centre, with dirty white in outer region. On PDA centre olivaceous-grey on surface and reverse.

*Typus.* TANZANIA, Serengeti, on leaves of *Acacia tortilis* (Fabaceae), Feb. 2014, M.J. Wingfield (holotype CBS H-22002, culture ex-type CPC 24314 = CBS 138873; ITS sequence GenBank KP004469, LSU sequence GenBank KP004497, MycoBank MB810617).

*Notes.* — Members of the genus *Roussoella* (1888) (*Roussoellaceae*; Liu et al. 2014) mostly occur on monocotyledons, thus the occurrence of *R. acaciae* on *Acacia* is unusual. Although we isolated only the *Cytoplea* (1885) asexual morph, which is unknown for most species of *Roussoella*, the fungus on *Acacia* appears to be phylogenetically distinct from other members of the genus. Both the genera *Roussoella* and *Cytoplea* are in need of revision.

*ITS.* Based on a megablast search of NCBI’s GenBank nucleotide database, the closest hits using the ITS sequence are *Roussoella chiangraina* (GenBank KJ474828; Identities = 360/395 (91%), Gaps = 17/395 (4%)), *Roussoella siamensis* (GenBank KJ474837; Identities = 352/387 (91%), Gaps = 16/387 (4%)) and *Arthopyrenia salicis* (GenBank KM030296; Identities = 353/390 (91%), Gaps = 17/390 (4%)).

*LSU.* Based on a megablast search of NCBI’s GenBank nucleotide database, the closest hits using the LSU sequence are *Roussoella percutanea* (GenBank KF366449; Identities = 822/841 (98%), Gaps = 3/841 (0%)), *Sporidesmium australense* (GenBank DQ408554; Identities = 827/847 (98%), Gaps = 2/847 (0%)) and *Roussoella hysteroides* (GenBank AB524622; Identities = 809/829 (98%), Gaps = 2/829 (0%)).

*Colour illustrations.* Lion resting in an *Acacia tortilis* tree, Serengeti, Tanzania; conidiomata sporulating on OA, conidiogenous cells and conidia. Scale bars = 10 µm.