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(which includes *P. cucurbitacearum*). Although the molecular studies indicate that the oomycete from cassava is close to *P. cucurbitacearum*, sizes of zoosporangia and oogonia given in the original description (Takimoto 1941) are much larger than in the cassava material. This isolate could represent a new species. Nevertheless, de Cock et al. (2015) regarded the *P. vexans* clade, containing the invalid taxon *P. cucurbitacearum* (Latin diagnosis not included in the original description), as in need of revision. Therefore, for the moment, we prefer to treat the oomycete from cassava as *Phytopythium* sp. Pathogenicity of COAD 2088 was verified by inoculating healthy roots (cultivar Rosinha) with culture disks. All roots inoculated with *Phytopythium* sp. had soft rot symptoms 7 days after inoculation, whereas noninoculated controls remained healthy. Typical *Phytopythium* sp. colonies were reisolated from the necrotic tissues, thus fulfilling Koch's postulates. To our knowledge, this is the first worldwide report of *Phytopythium* sp. causing root rot in cassava.



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Figure 1. *Phytopythium* on cassava. (A) Cassava plants (*Manihot esculenta*) showing foliage blight, reflecting root infection by *Phytopythium* sp., in the field at Ipixúna (state of Pará, Brazil); (B) Rotting cassava roots from which *Phytopythium* sp. was isolated; (C) Oogonium with one oospore of *Phytopythium* sp.; (D) Sporangium of *Phytopythium* sp. Scale bars = 10 µm