**Index Fungorum no.243**

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Nomenclatural novelties: Boris Assyov, Jean-Michel Bellanger, Paul Bertéa, Régis Courteauis, Gerhard Koller, Michael Loizides, Guilhermina Marques, José Antonio Muñoz, Nicolò Oppicelli, Davide Puddu, Franck Richard & Pierre-Arthur Moreau


**IF550508**


Holotype: *Boletus torosus* Fr. 1835.

Phylogenetic results based on ITS and 28S rDNA sequences reveal that the three species cited above belong to a monophyletic lineage, not characterized in earlier works (Nuhn et al. 2013, Fungal Biology 117: 479-511; Arora & Frank 2014, Mycologia 106(3): 464-480; Gelardi et al. 2014, Mycologia 106(6): 1168-1187; Simonini & Vizzini 2014, Mycol. Progr. 13(1): 95-109; Wu et al. 2014, Fungal Diversity on line, DOI: http://dx.doi.org/10.1007/s13225-014-0283-8; Wu et al. 2015, Fungal Diversity on line, DOI: 10.1007/s13225-015-0322-0). The three species identified in this clade are all European, known from broadleaved forests on calcareous soils. This group is characterized by a unique combination of features: yellow to reddish-orange reticulate stipe, staining dark purplish red from base with age, a typical blue to blackish staining on pileus surface when touched, and an intense blueing reaction of the context when cut. Pores are either yellow, red or purplish with a high chromatic variability of all parts of basidiole in I. rhodopurpureus. The taxonomic status of these variants, as well as of Boletus xanthocyaneus Romagn., requires further studies. Phylogenetic results supporting this publication (ITS and 28S ML phylogenetic trees) are accessible online at http://boletales.com/phylogenetics/. Acknowledgements: to Paul Pirot for verification of the Latin diagnosis, and to the members of the web forum Mediterranean Fungi, from which this project originated.

Etymology: Imperator (Lat., Emperor) in honour of the impressive and prestigious *Boletus torosus*, and its smaller but equally remarkable relatives


**IF550510**

Basionym: *Boletus luteocupreus* Bertéa & Estadès, Docums Mycol. 20(no. 78): 10 (1990)


**IF550511**

Basionym: *Boletus rhodopurpureus* Smotl., C.C.H. 29(1-3): 31 (1952)

**Imperator torosus** (Fr.) G. Koller, Assyov, Bellanger, Bertéa, Loizides, G. Marques, P.-A. Moreau, J.A. Muñoz, Oppicelli, Puddu & F. Richard, comb.nov.

**IF550512**

Basionym: *Boletus torosus* Fr., in Fries & Hök, *Boleti, Fungorum generis, illustratio*: 10 (1835)

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