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OCURRENCE OF DOWNY MILDEW ON TWO CUCURBITACEAE FROM THE STATE OF RIO DE JANEIRO, BRAZIL<sup>1</sup> / Ocorrência de míldio em duas cucurbitáceas do Estado do Rio de Janeiro, Brasil. J. REMBINSKI<sup>2</sup>; C.M.X. FARIA<sup>2</sup>; J.M. OLIVEIRA<sup>2</sup>; G.A.F. MARTINS<sup>2</sup>; P.I.R.R. MARTINS<sup>2</sup>; A.L.R.F. SARAIVA<sup>2</sup>; C.A. INÁCIO<sup>2</sup>. <sup>2</sup>Biological Sciences and Healthy Institute, Department of Entomology and Plant Pathology, University Federal Rural of Rio de Janeiro, 23890-000, Seropédica, R.J. E-mail: inacio@ufrj.br

Downy mildew disease is commonly found on several crops in the State of Rio de Janeiro and is caused by several *Oomycota* in distinct genera. Between May to June 2017, some symptomatic material of two distinct vegetables were found in the State of Rio de Janeiro. Samples of these material were taken to the Laboratory of Plant Pathology (Mycology Section), Department of Entomology and Plant Pathology - DENF/ICBS/UFRRJ and studies using optical and dissecting microscope techniques were done. The fungus associated to “downy mildew” in these material was *Pseudoperonospora* sp. The descriptions are given as follow: 1- On squash “abóbora-rasteira” (*Curbita moschata* Duch.): *Leaf spots* 3-130 mm diam, amphigenous, initially as yellowish patches, rather irregular, close to the veins and becoming necrotic with brownish colour and showing some grayish colonies at lower side. *Sporangiophores* 100-337(-342) × 5-12 µm, hypophyllous, dichotomously branched, hyaline. *Sporangia* 19-40 × 12-28 µm, brownish, smooth, papillate; *papilla* 1-3 × 2-5 µm, colourless. 2- On gherkin “maxixe” (*Cucumis anguria* L.): *Leaf spots* 3-130 mm diam, amphigenous, initially as yellowish areas, rather irregular, becoming necrotic with brownish colour and showing some grayish colonies at lower side. *Sporangiophores* 313-530 × 7-12 µm, hypophyllous, dichotomously branched, hyaline. *Sporangia* (18-)20-39 × 12-23 µm, brownish, smooth, papillate; *papilla* 1-2 × 2-5 µm, colourless.

**Key words:** Chromista, mildews, Peronosporaceae, leaf spot, zoospores.

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