Green pepper rust is caused by the fungus Puccinia pampeana. Since this fungus has two distinct telial forms, it is classified as a biteliomorphic rust. The first form occurs at the beginning of symptom appearance, withaecidioid, golden-yellow, catenulate teliospores surrounded by a peridium. The second one occurs at the end of the fungus cycle in the host, with dark brown, pulvinate, biccilular, pedicellate telioiild teliospores, which contain germination selfinhibiting substances in their walls, that can be removed by washing. Aqueous extracts were prepared with 20 mg of Puccinia pampeana telioiild teliospores, and tested on germination inhibition of aecidioid teliospores of the same rust and of urediniospores of Coleosporium plumierae and Hemileia vastratrix. The inhibiting effect was demonstrated by measuring metabasidial length (aecidioid teliospores of P. pampeana) and germ tube length of C. plumierae and H. vastratrix. The inhibiting effect was verified after 4 and 6 h of contact of spores with the extracts.

**Keywords**
Self-inhibitor, germination, metabasidium, germinative tube.