

Novel antimicrobial cruzioseptin peptides extracted from the splendid leaf frog, *Cruziohyala calcarifer*

[Novel antimicrobial cruzioseptin peptides extracted from the splendid leaf frog, \*Cruziohyala calcarifer\* - PubMed \(nih.gov\)](https://pubmed.ncbi.nlm.nih.gov/33942149/)

The screenshot shows a web browser window displaying a PubMed article. The browser's address bar shows the URL: <https://pubmed.ncbi.nlm.nih.gov/33942149/>. The page header includes the NIH National Library of Medicine logo and a search bar. The article title is "Novel antimicrobial cruzioseptin peptides extracted from the splendid leaf frog, *Cruziohyala calcarifer*". The authors listed are Sebastian A Cuesta, Camila Reinoso, Felipe Morales, Fernanda Pilaquinga, Giovanna Morán-Marcillo, Carolina Proaño-Bolaños, Ailin Blasco-Zúñiga, Miryan Rivera, and Lorena Menezes. The article is from *Amino Acids*, 2021, Jun;53(6):853-866. The abstract text reads: "Antimicrobial peptides (AMPs) constitute part of a broad range of bioactive compounds present on diverse organisms, including frogs. Peptides, produced in the granular glands of amphibian skin, constitute a component of their innate immune response, providing protection against pathogenic microorganisms. In this work, two novel cruzioseptins peptides, cruzioseptin-16 and -17, extracted from the splendid leaf frog *Cruziohyala calcarifer* are presented. These peptides were identified using molecular cloning and tandem mass spectrometry. Later, peptides were synthesized using solid-phase peptide synthesis, and their minimal inhibitory concentration and haemolytic activity were tested. Furthermore, these two cruzioseptins plus three previously reported (CZS-1, CZS-2, CZS-3) were computationally characterized. Results show that cruzioseptins are 21-23 residues long alpha helical cationic peptides with antimicrobial activity against *E. coli*, *S. aureus*, and *C. albicans* and low". The page also features a sidebar with "FULL TEXT LINKS" (SpringerLink), "ACTIONS" (Cite, Collections), "SHARE" (Twitter, Facebook, LinkedIn), "PAGE NAVIGATION" (Title & authors, Abstract, Similar articles), and a Windows taskbar at the bottom showing the date 04/04/2023 and time 09:44 a.m.