

GENOME SEQUENCING

The complete genome sequences of 31 species of Costaceae (Zingiberales)

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Biodiversity Genomes

We present complete genome sequences of 25 species of *Costus* and six close relatives.

Methods

Tissues from single, wild-collected individuals were used for this study. DNA extraction was performed using the Qiagen DNEasy genomic extraction kit using the standard process. Paired-end sequencing libraries were constructed using the Illumina TruSeq kit according to the manufacturer’s instructions. The libraries were sequenced on an Illumina Hi-Seq platform in paired-end, 2 × 150bp format. The resulting fastq files were trimmed of adapter/primer sequences and low-quality regions with Trimmomatic v0.33 (Bolger, Lohse, and Usadel 2014). The trimmed sequence was assembled by SPAdes v3.15.4 (Bankevich et al. 2012) followed by a finishing step using Zanfona (Kieras, O’Neill, and Pirro 2021).

Results and Data Availability

taxname	accession
<i>Costus alleniopsis</i> Maas & D.Skinner	JBGRNK000000000
<i>Costus alticola</i> Maas & H.Maas	JBOBLW000000000
<i>Costus amazonicus</i> (Loes.) J.F.Macbr.	JBNWVC000000000
<i>Costus antioquiensis</i> Maas & H.Maas	JBPBVC000000000
<i>Costus asplundii</i> (Maas) Maas	JBOXDI000000000
<i>Costus callosus</i> Maas & H.Maas	JBNWVB000000000
<i>Costus chartaceus</i> Maas	JBNWUZ000000000
<i>Costus convexus</i> Maas & D.Skinner	JBMAHE000000000
<i>Costus cordatus</i> Maas	JBMPIG000000000
<i>Costus cupreifolius</i> Maas	JBMAUJ000000000
<i>Costus erythrocoryne</i> K.Schum.	JBMAHT000000000
<i>Costus erythrophyllus</i> Loes.	JBMAHF000000000
<i>Costus kupensis</i> Maas & H.Maas	JBPRKO000000000
<i>Costus lateriflorus</i> Baker	JBPRLJ000000000
<i>Costus nitidus</i> Maas	JBNXST000000000
<i>Costus obscurus</i> D.Skinner & Maas	JBMDMK000000000
<i>Costus oreophilus</i> D.Skinner & Maas	JBMAHV000000000
<i>Costus osae</i> Maas & H.Maas	JBMDMH000000000
<i>Costus plowmanii</i> Maas	JBMCHZ000000000
<i>Costus rubineus</i> D.Skinner & Maas	JBMAUI000000000
<i>Costus scaber</i> Ruiz & Pav.	JBMBRM000000000

taxname	accession
<i>Costus sepacuitensis</i> Rowlee	JBMBRU000000000
<i>Costus sinningiiflorus</i> Rusby	JBMAID000000000
<i>Costus sprucei</i> Maas	JBMBTX000000000
<i>Costus vargasii</i> Maas & H.Maas	JBMAHU000000000
<i>Dimerocostus argenteus</i> Maas	JBPRLD000000000
<i>Dimerocostus cryptocalyx</i> N.R.Salinas & Betancur	JBPRLM000000000
<i>Hellenia globosa</i> (Blume) S.R.Dutta	JBPRLI000000000
<i>Monocostus uniflorus</i> (Poepp. ex Petersen) Maas	JBPRKT000000000
<i>Paracostus englerianus</i> (K.Schum.) C.D.Specht	JBPRLK000000000
<i>Paracostus paradoxus</i> (K.Schum.) C.D.Specht	JBPSDS000000000

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