

CHROMOSOME NUMBER OF *CADIA PURPUREA* (PICC.) AIT.(CAES.)

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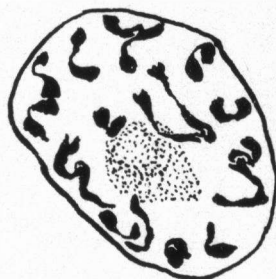
In continuation of the revision of the genus *Cadia* (VAN DER MAESEN 1970) some cytological work was done on *Cadia purpurea* (Picc.) Ait. The chromosome number had never been reported. When seeds became available, a number of slides was prepared in order to count the chromosomes.

The seed material used was collected by J. J. F. E. De Wilde in the vicinity of the bushes, from which nrs. 4103 and 4164 had been collected previously, on October 23rd, 1969, 14 km S.E. of Dire Dawa (Ethiopia) along the highway to Harar at an altitude of 1400 m. Reference material has been filed under nr. JM 977 (WAG).

The seeds were germinated between moistened filter paper in petri dishes, only after incision of the seed coat. Fresh seeds, later collected in the greenhouse, showed no symptoms of dormancy. The best results were obtained with root tips, most favourably taken at about 10 p.m., and stored in 8-oxychinoline solution (0,03%) for 2 hours. The tips were fixed in Carnoy (acetic alcohol 1:3) for 15 minutes. After macerating for 6 minutes in HCl 1N at 60°C. the material was squashed in haematoxylin. Late prophases and metaphases of about 30 cells showed a chromosome number of 18. Squashes with carmine acetic acid or slides cut in paraffin and stained with gentiana violet gave no results, even with different fixations.

In some related Papilionaceous genera the following chromosome numbers have been reported (2n):

<i>Sweetia dasycarpa</i> (Vog.) Benth.	18
<i>Amphimas pterocarpoides</i> Harms	22
<i>Inocarpus edulis</i> Forst.	20
<i>Swartzia fistuloides</i> Harms	16
<i>Swartzia madagascariensis</i> Desv.	16



Late prophase in root tip, magn. $\times 300$.

In some genera of Caesalpinaceae regarded as related to *Cadia* no chromosome numbers are known.

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REFERENCES

- FEDOROV, A., (ed.) (1969): *Chromosome numbers of flowering plants*. Leningrad, 926 pp.
- MAESEN, L. J. G. VAN DER, (1970): A revision of the genus *Cadia* Forskål (Caes.) and some remarks regarding *Dicraeopetalum* Harms (Pap.) and *Platycelyphium* Harms (Pap.). *Acta Bot. Neerl.* 19: 227-248.