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CORRECTION

# Correction to: 2D morphometric analysis of *Arabidopsis thaliana* nuclei reveals characteristic profiles of different cell types and accessions

**Penka Pavlova · Martijn van Zanten · Basten L. Snoek · Hans de Jong · Paul Fransz**

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The original version of this article unfortunately contained a mistake.

The Tables 1 and 2 were published erroneously.

The corrected Tables 1 and 2 were shown in the next page.

The publisher sincerely apologizes for this error and any inconvenience caused to the authors and readers of the journal.

The original article has been corrected.

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P. Pavlova · H. de Jong
Laboratory of Genetics, Wageningen University and Research, Droevendaalsesteeg 1, 6708 PB Wageningen, The Netherlands

M. van Zanten
Molecular Plant Physiology, Institute of Environmental Biology, Utrecht University, Padualaan 8, 3584 CH Utrecht, The Netherlands

B. L. Snoek
Theoretical Biology and Bioinformatics, Institute of Biodynamics and Biocomplexity, Utrecht University, Padualaan 8, 3584 CH Utrecht, The Netherlands

P. Fransz (✉)
Swammerdam Institute for Life Sciences, University of Amsterdam, Science Park 904, 1098 XH Amsterdam, The Netherlands
e-mail: P.F.Fransz@uva.nl

**Table.1** Morphometric parameters used for chromatin profiling together with their Biological equivalent,Description, and Mathematical formula.

| | Biological feature | Parameter (trait) | Description | Formula | Unit |
|---|---|---|---|---|---|
| **Nucleus** | Size | Area | Sum of pixels within area of *Nu* | Σ pixels | pixel |
| | DNA density | Intensity mean | Average fluorescent intensity of DAPI stain of *Nu* | Σ intensity / number pixels | |
| | Variation in DNA density | Heterogeneity | Fraction of pixels that deviate more than 10% from the averaged intensity mean of *Nu* | | |
| | DNA content | Intensity sum | Sum of fluorescent intensity of DAPI stain of *Nu* | | |
| **chromocenter** | Total size | Total area | Sum of areas of all *CCs* in *Nu* | Σ pixels x number *CC* | pixel |
| | Average size | Area average | Average area of individual *CCs* | Σ pixels / number *CC* | pixel |
| | DNA density | Intensity (mean) | Average fluorescent intensity of DAPI stain of individual CCs in *Nu* | Σ intensity / number pixels | |
| | DNA content | Intensity (sum) | Sum of fluorescent intensity of DAPI stain of all *CCs* in *Nu* | Σ intensity | |
| | Heterochromatin content in *Nu* | Relative Heterochromatin Fraction (RHF) | Fraction of DNA content of *CCs* per *Nu* | Σ (area *CC* x intensity mean *CC*)/(area *Nu* x intensity mean *Nu*) | |
| | Number *CCs* | *# CC* | Sum of all *CCs* in *Nu* | Σ *CCs* | |
| **euchromatin** | Size | Area | Area of *Eu* | Σ pixels *Nu* - Σ pixels *CC* | pixel |
| | DNA density | Intensity (mean) | Average fluorescent intensity of DAPI stain of *Eu* | [Σ intensity (sum) *Nu*- Σ intensity (sum) *CC*] / area *Eu* | |
| | DNA content | Intensity (sum) | Sum of fluorescent intensity of DAPI stain of E*u* | Σ intensity (sum) *Nu*- Σ intensity (sum) *CC* | |

Note: Chromocenter (CC) is used in the meaning of a microscopically visual heterochromatin body in the interphase nucleus. DNA density as a biological feature is used as equivalent to DNA concentration. Nu = nucleus, Eu = euchromatin

**Table.2** Fraction of transposable elements in heterochromatin and euchromatin

| | | cell types | | | | | accessions | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | **GC** | **PC** | **VC** | **EC** | | **Col** | **Cvi** | **C24** | **Ler** | **Ws** |
| **125 Mb** | RHF | 0.19 | 0.13 | 0.12 | 0.09 | | 0.13 | 0.08 | 0.12 | 0.13 | 0.10 |
| | DNA in CC (Mb) | 23.75 | 16.25 | 15.00 | 11.25 | | 16.25 | 10.00 | 15.00 | 16.25 | 12.50 |
| | amount of TEs in CC | 7.49 | -0.01 | -1.26 | -5.01 | | -0.01 | -6.26 | -1.26 | -0.01 | -3.76 |
| | **fraction of TE in CC** | **0.60** | **0.00** | **-0.10** | **-0.40** | | **0.00** | **-0.50** | **-0.10** | **0.00** | **-0.30** |
| | fraction of TE in eu | 0.40 | 1.00 | 1.10 | 1.40 | | 1.00 | 1.50 | 1.10 | 1.00 | 1.30 |
| | | **GC** | **PC** | **VC** | **EC** | | **Col** | **Cvi** | **C24** | **Ler** | **Ws** |
| **157 Mb** | RHF | 0.19 | 0.13 | 0.12 | 0.09 | | 0.13 | 0.08 | 0.12 | 0.13 | 0.10 |
| | DNA in CC (Mb) | 23.75 | 16.25 | 15.00 | 11.25 | | 16.25 | 10.00 | 15.00 | 16.25 | 12.50 |
| | amount of TEs in CC | 7.49 | -0.01 | -1.26 | -5.01 | | -0.01 | -6.26 | -1.26 | -0.01 | -3.76 |
| | **fraction of TE in CC** | **0.60** | **0.00** | **-0.10** | **-0.40** | | **0.00** | **-0.50** | **-0.10** | **0.00** | **-0.30** |
| | fraction of TE in eu | 0.40 | 1.00 | 1.10 | 1.40 | | 1.00 | 1.50 | 1.10 | 1.00 | 1.30 |
| | | **GC** | **PC** | **VC** | **EC** | | **Col** | **Cvi** | **C24** | **Ler** | **Ws** |
| **191 Mb** | RHF | 0.19 | 0.13 | 0.12 | 0.09 | | 0.13 | 0.08 | 0.12 | 0.13 | 0.10 |
| | DNA in CC (Mb) | 36.29 | 24.83 | 22.92 | 17.19 | | 24.83 | 15.28 | 22.92 | 24.83 | 19.10 |
| | amount of TEs in CC | 20.03 | 8.57 | 6.66 | 0.93 | | 8.57 | -0.98 | 6.66 | 8.57 | 2.84 |
| | **fraction of TE in CC** | **1.05** | **0.45** | **0.35** | **0.05** | | **0.45** | **-0.05** | **0.35** | **0.45** | **0.15** |
| | fraction of TE in eu | -0.05 | 0.55 | 0.65 | 0.95 | | 0.55 | 1.05 | 0.65 | 0.55 | 0.85 |
| | | **GC** | **PC** | **VC** | **EC** | | **Col** | **Cvi** | **C24** | **Ler** | **Ws** |
| **211 Mb** | RHF | 0.19 | 0.13 | 0.12 | 0.09 | | 0.13 | 0.08 | 0.12 | 0.13 | 0.10 |
| | DNA in CC (Mb) | 40.09 | 27.43 | 25.32 | 18.99 | | 27.43 | 16.88 | 25.32 | 27.43 | 21.10 |
| | amount of TEs in CC | 23.83 | 11.17 | 9.06 | 2.73 | | 11.17 | 0.62 | 9.06 | 11.17 | 4.84 |
| | **fraction of TE in CC** | **1.13** | **0.53** | **0.43** | **0.13** | | **0.53** | **0.03** | **0.43** | **0.53** | **0.23** |
| | fraction of TE in eu | -0.13 | 0.47 | 0.57 | 0.87 | | 0.47 | 0.97 | 0.57 | 0.47 | 0.77 |

CC = chromocenter, TE = transposon element, eu = euchromatin, GC = guard cell, PC = pavement/parenchyma cell, VC = vascular cell. EC = endopolyploid cells, Mb = megabasepairs

The negative values for the *fraction of TEs in CC* (red) suggests that in addition to all TEs also a fraction of the major tandem repeats is in euchromatin. The negative values for the *fraction of TEs in euchromatin* (i.e., GC values in 191 Mb and 211 Mb) suggest more DNA in the CCs than the sum of tandem repeats and TEs. This implies that genes are also present in CCs.