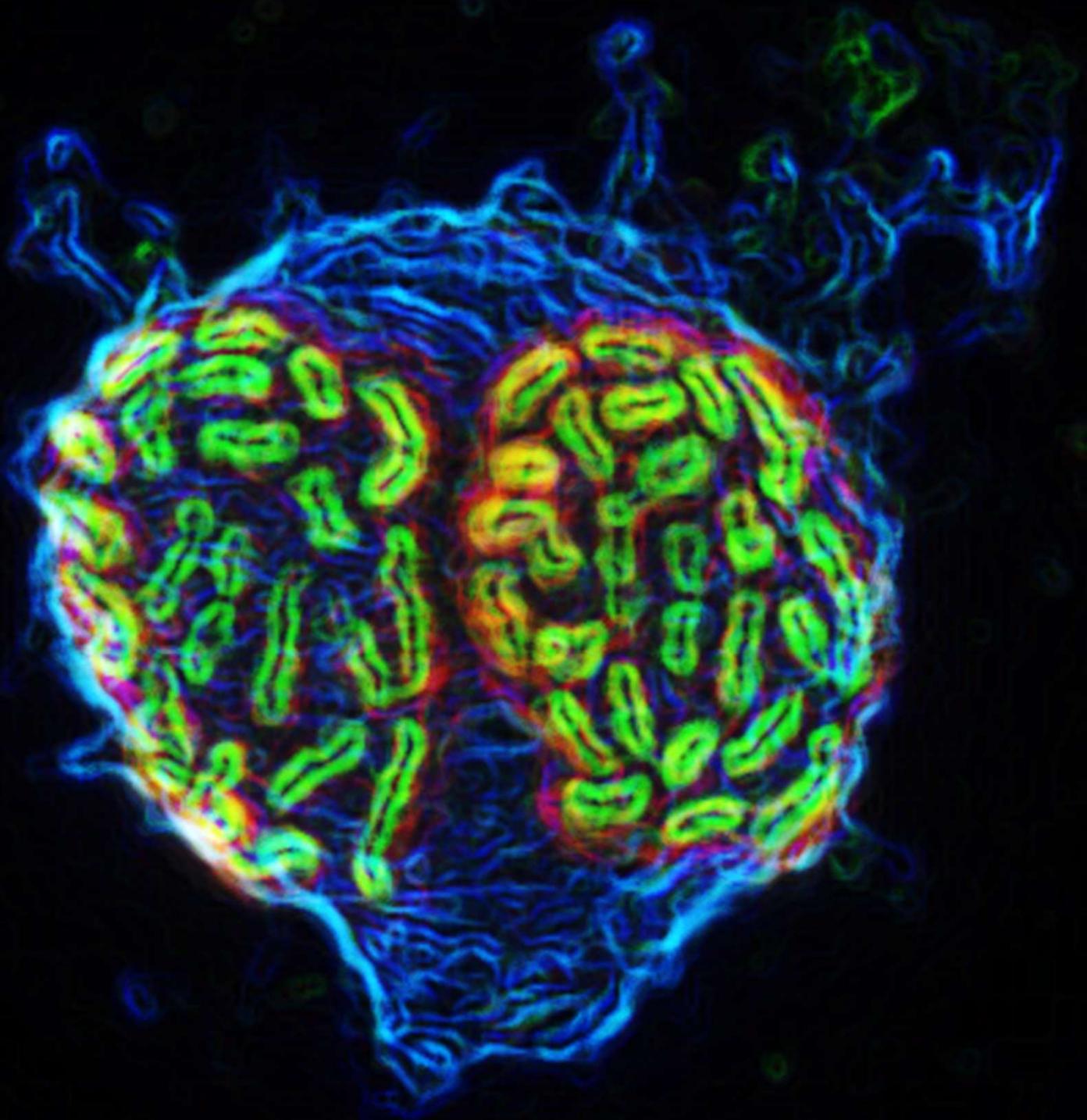


CHROMOSOME BIOLOGY

2026

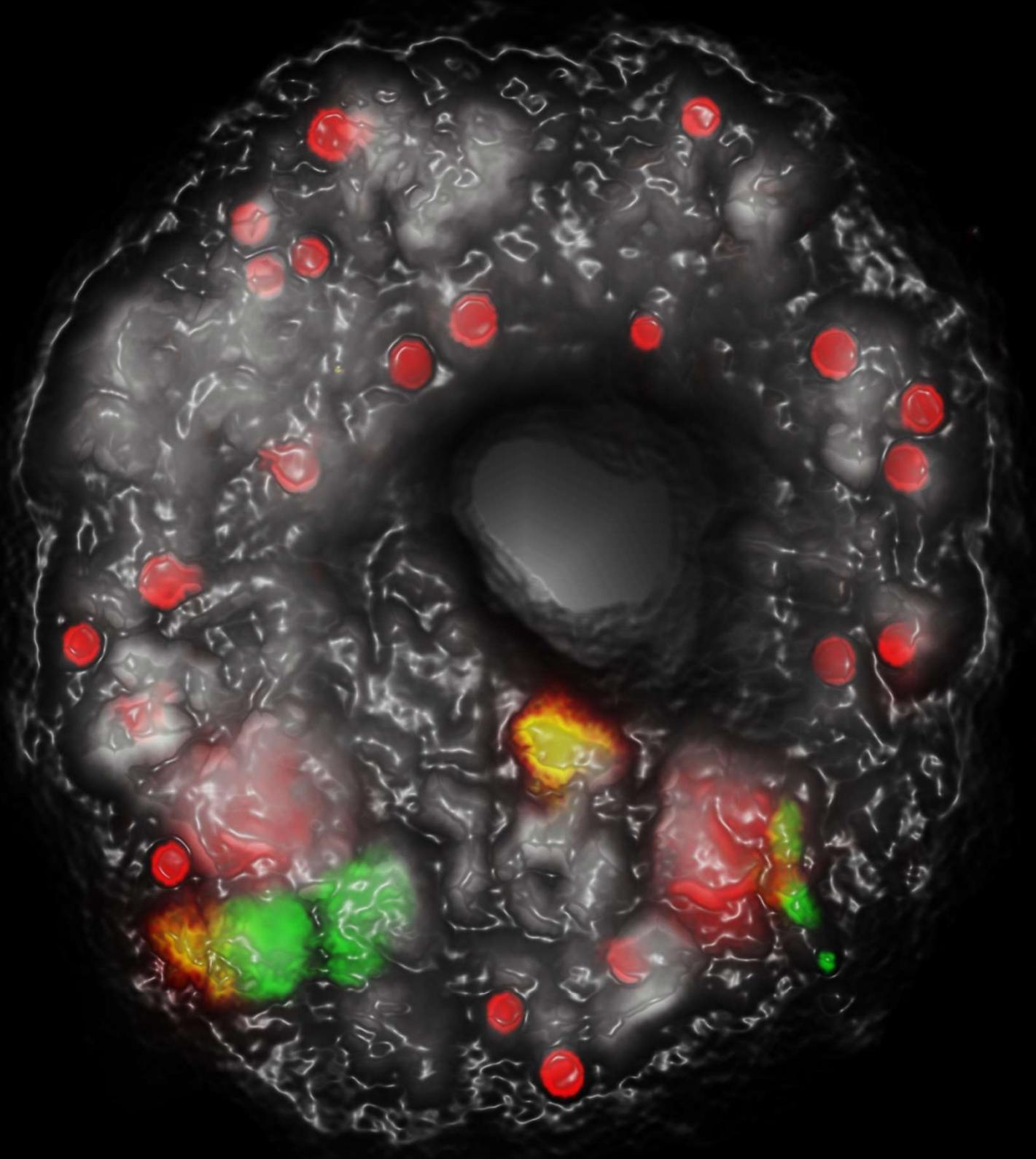


9th Edition

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JANUARY



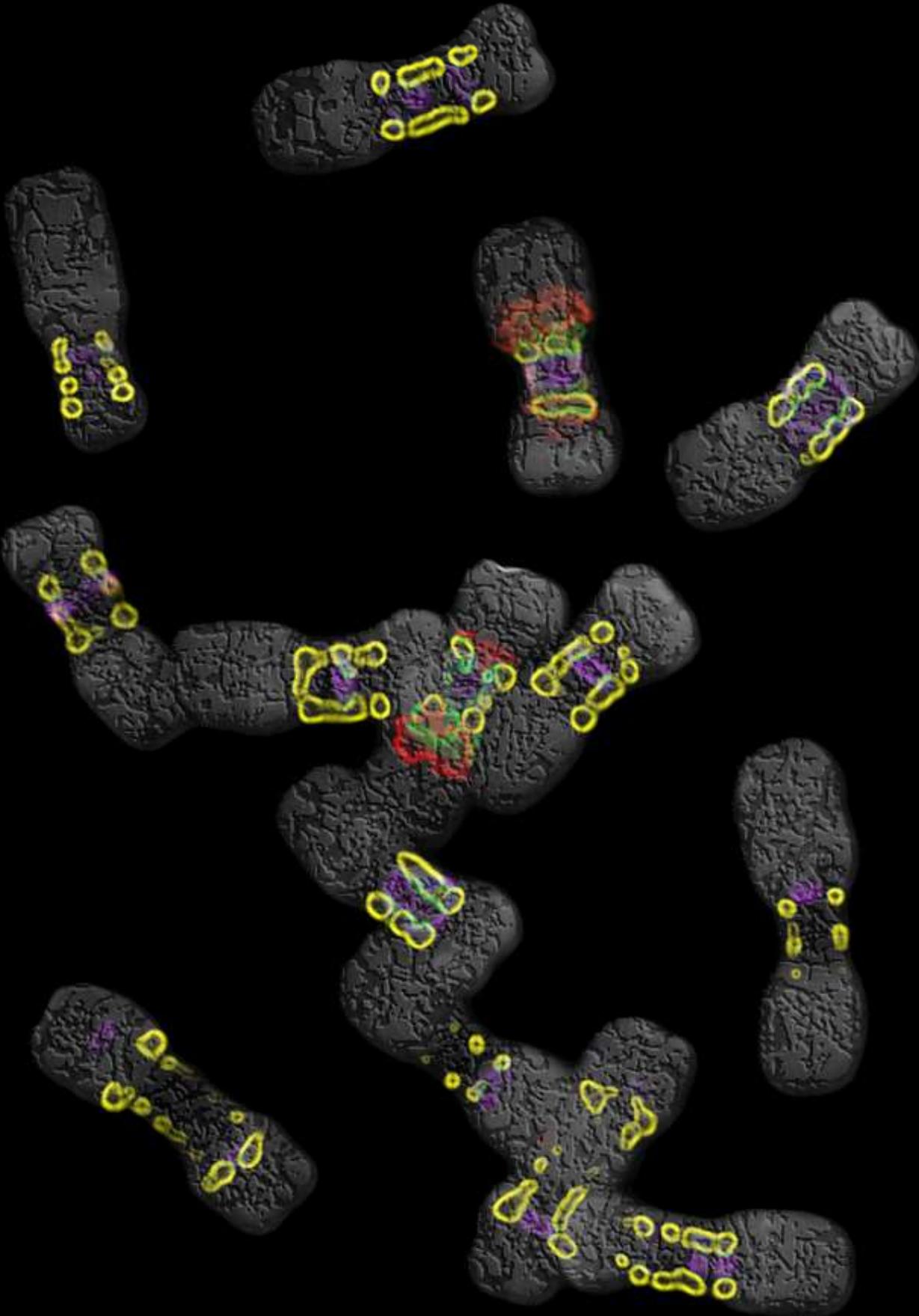
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FEBRUARY

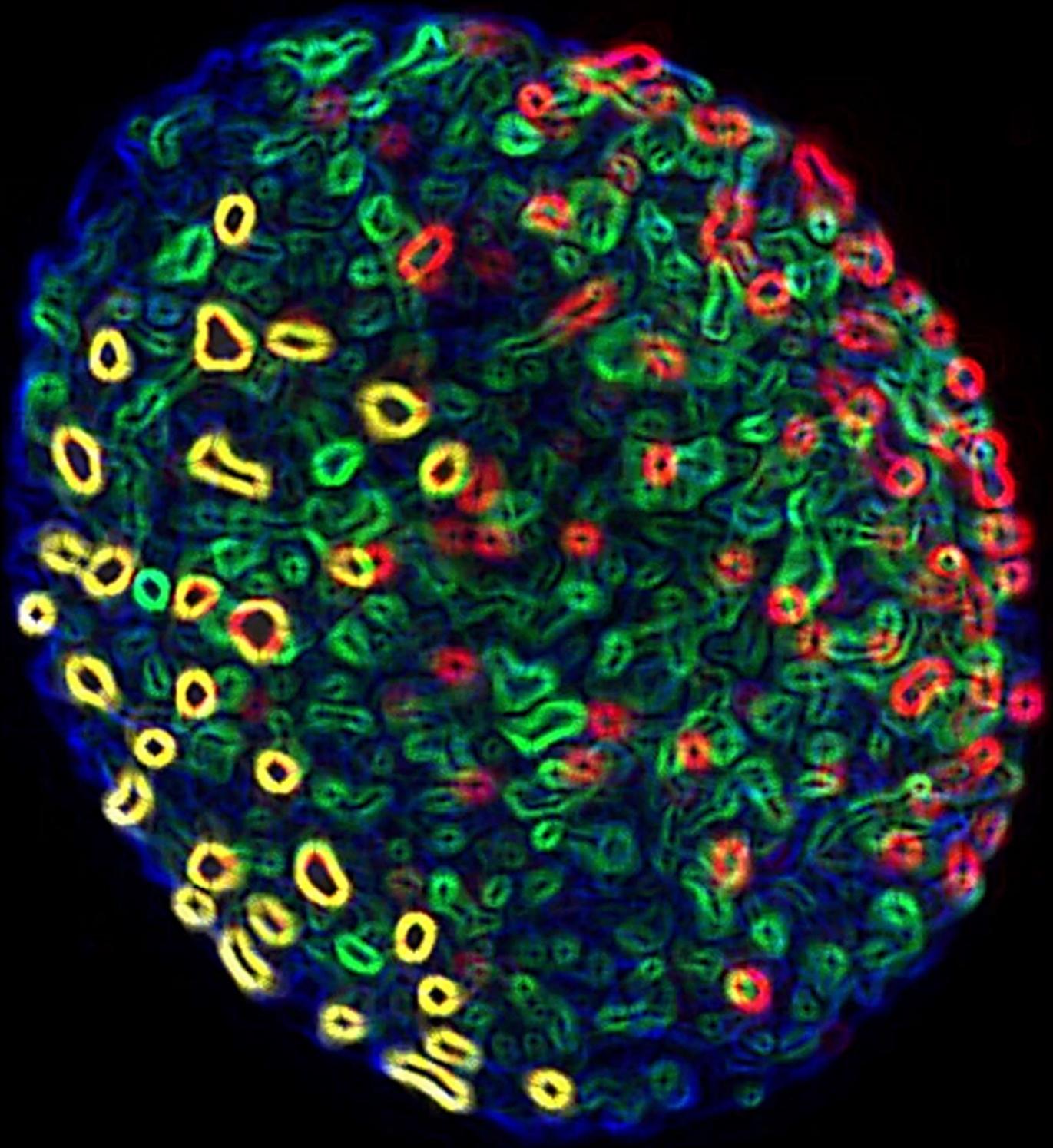


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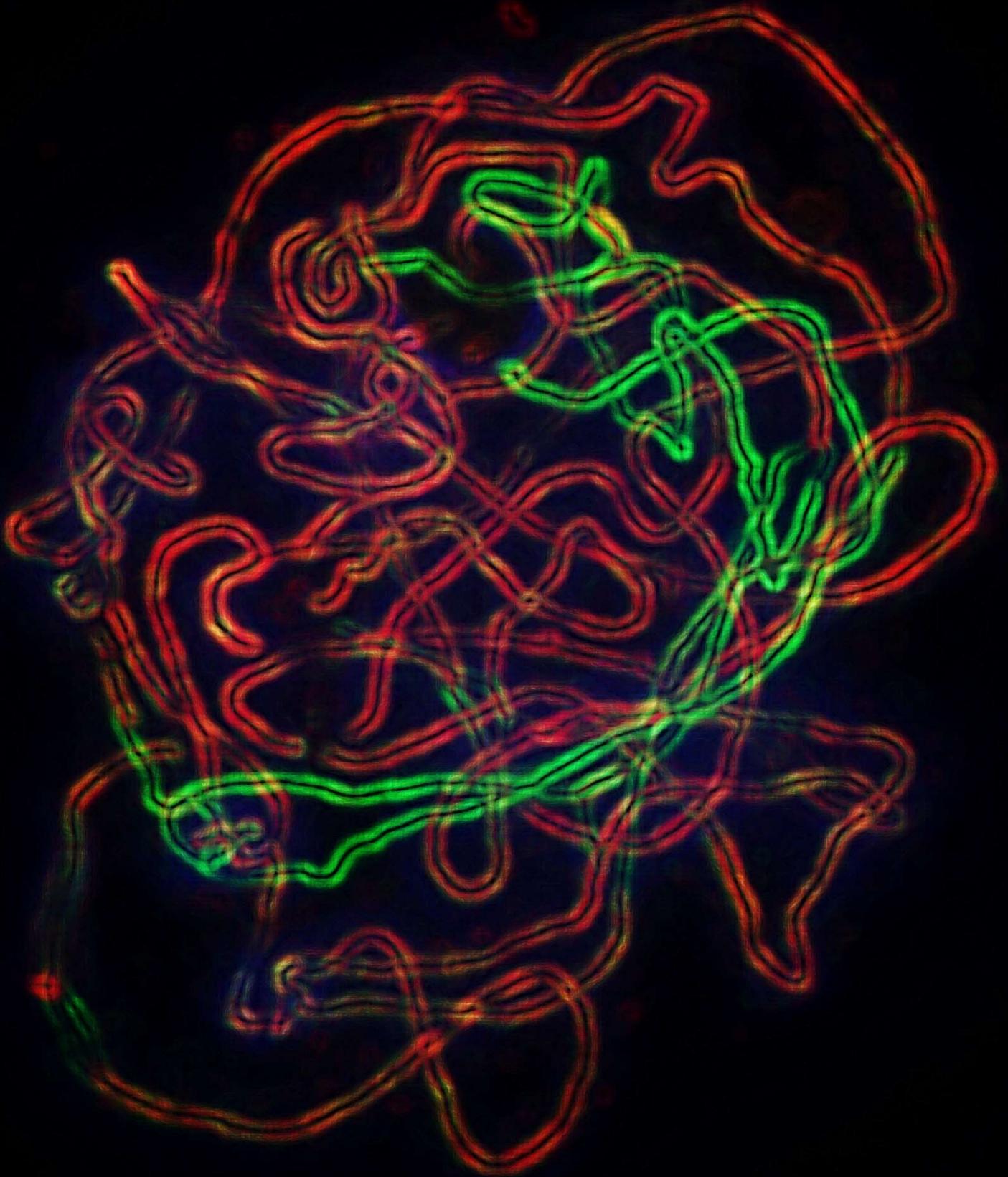


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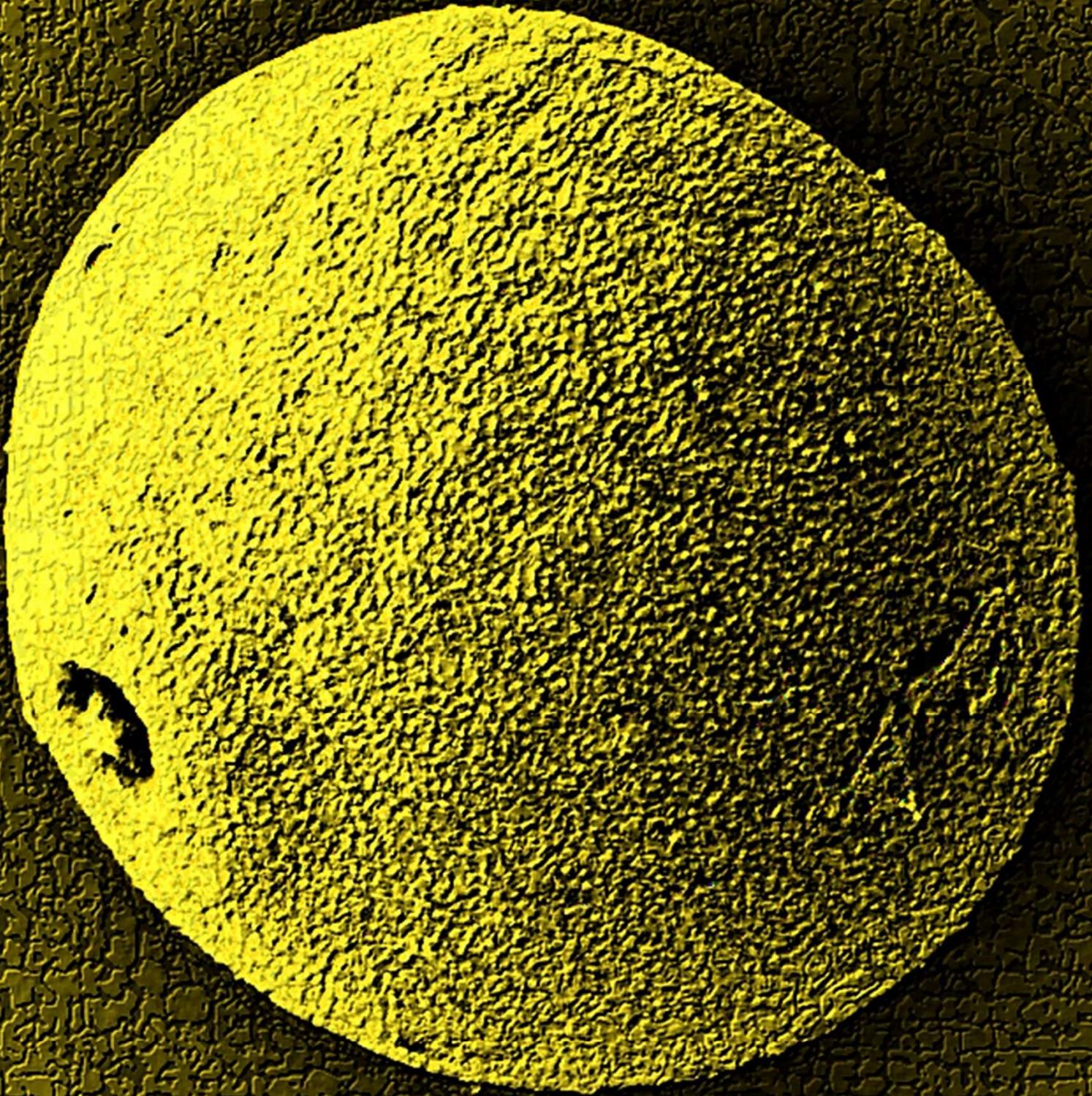
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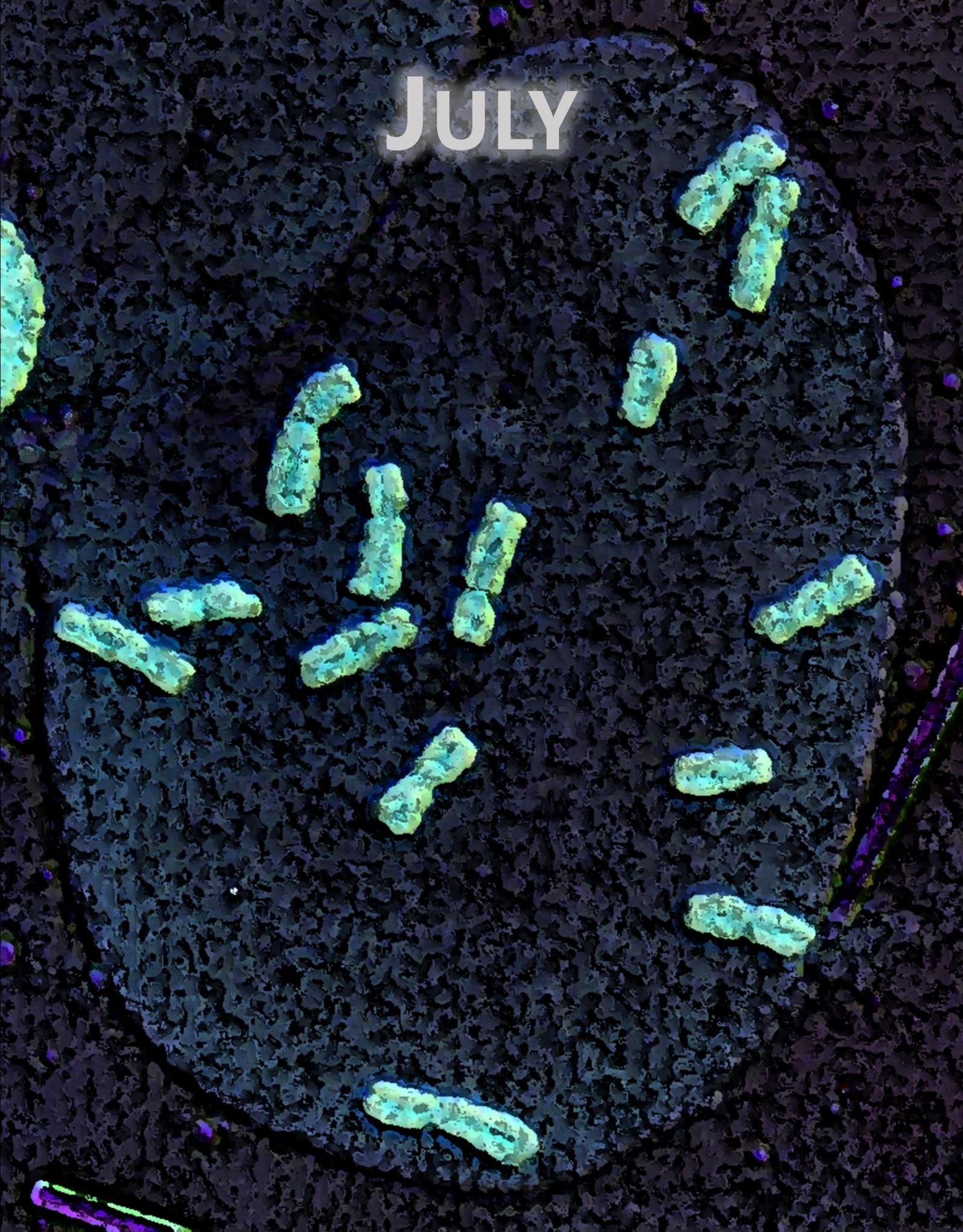
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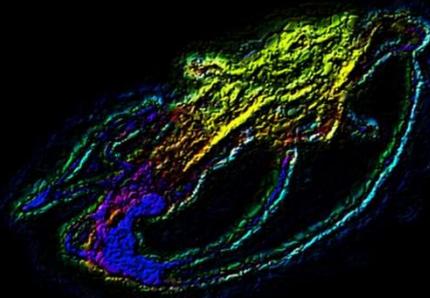
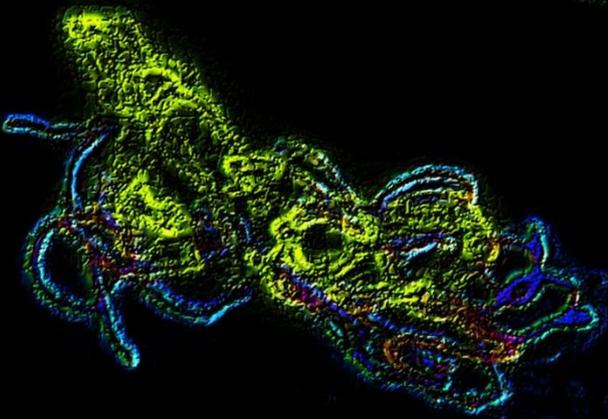
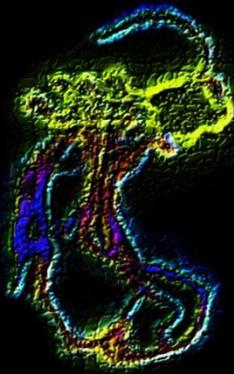
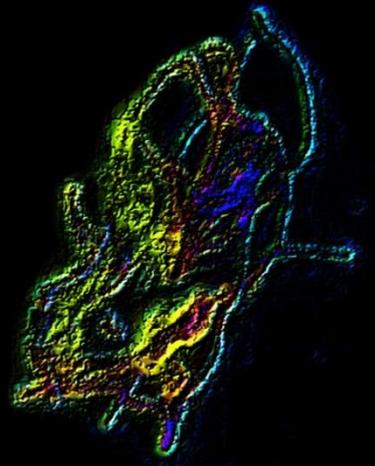
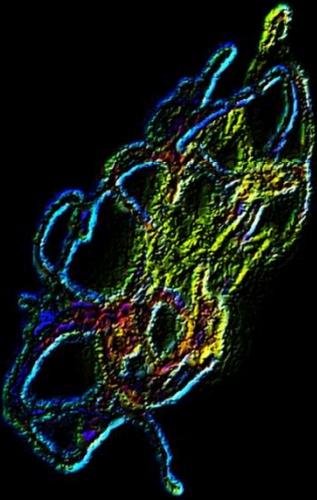
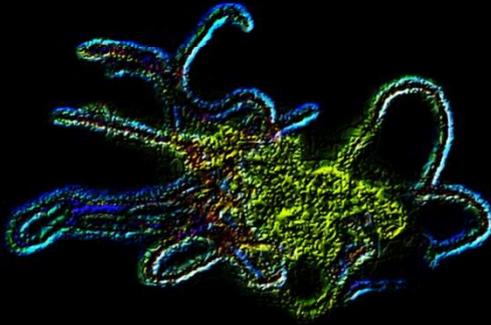
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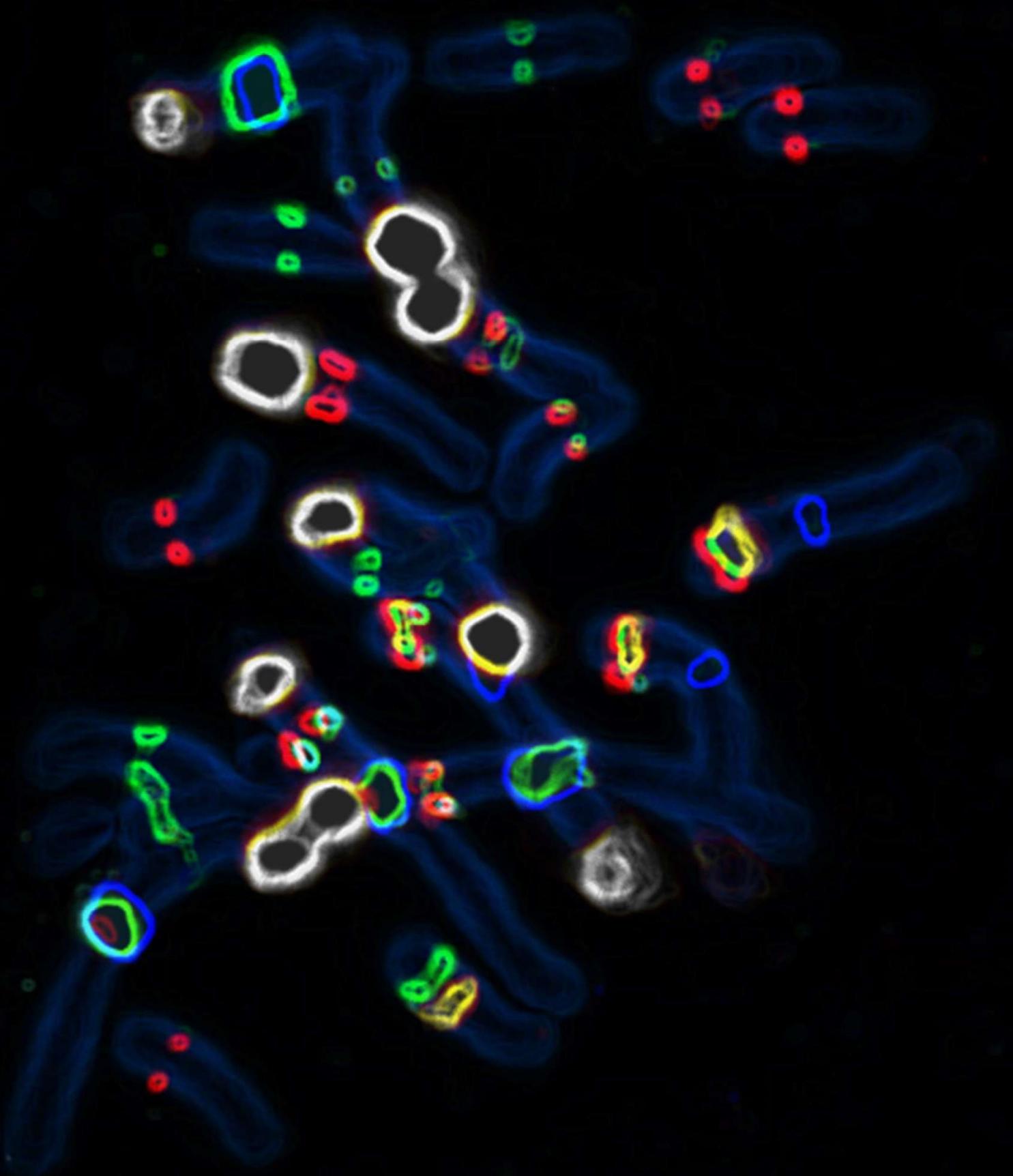
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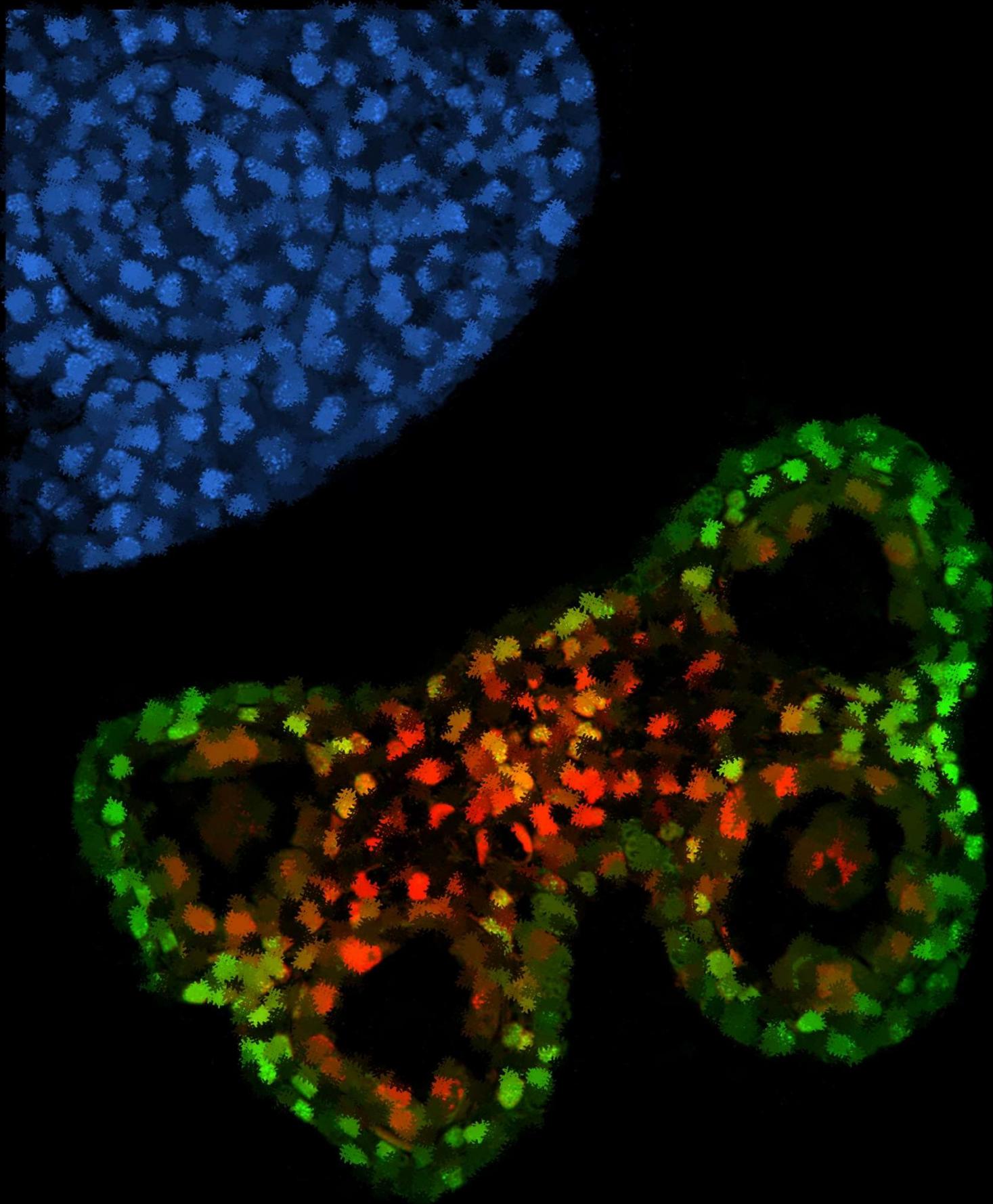
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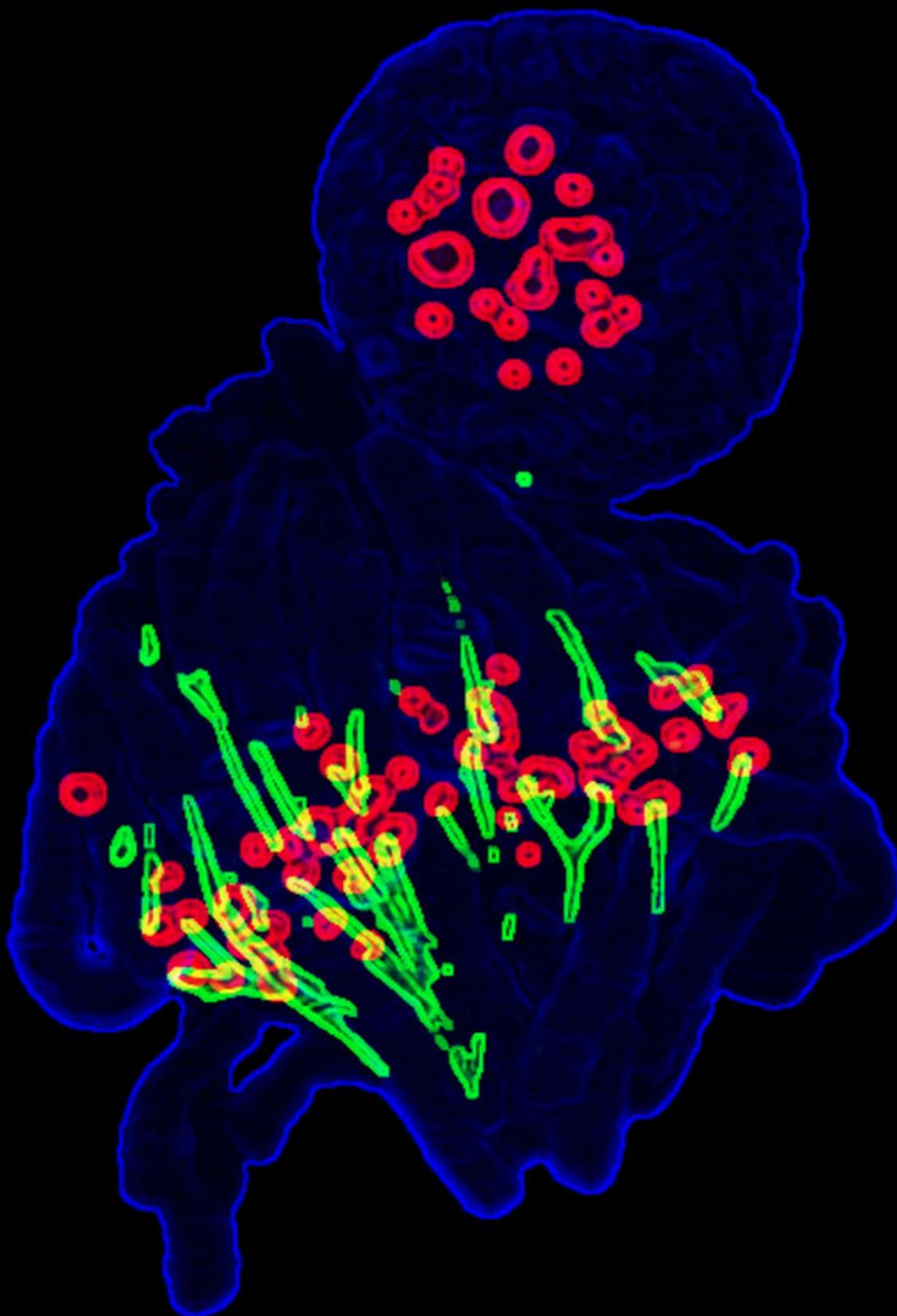
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OCTOBER



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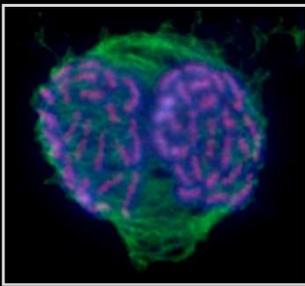
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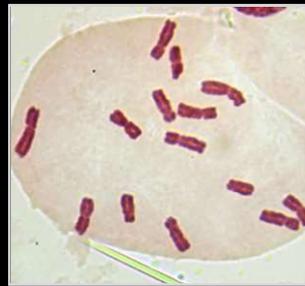
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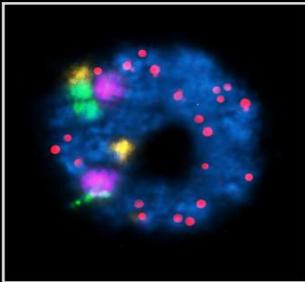
Y.-T. Kuo & A. Houben (IPK, Gatersleben, Germany)

Early mitotic telophase in the holocentric plant *Chionographis japonica*. Line-like CENH3 signals (purple) mark the holocentromeres, while microtubules (green) delineate the spindle structure.



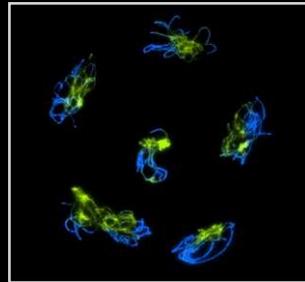
R. Chougule, S. Yadav & M. Lekhak (Shivaji University, Kolhapur, India)

Mitotic metaphase of *Chlorophytum heynei*.



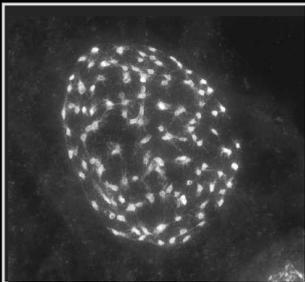
J. Kwasniewska, A. Kus & R. Hasterok (University of Silesia in Katowice, Poland)

Brachypodium distachyon interphase nucleus with Bd1 chromosome-specific (green, purple and yellow) and telomeric probes (red).



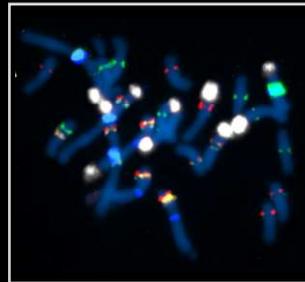
Y.J. Ahn & S. Heckmann (IPK, Gatersleben, Germany)

Meiotic pachytene chromosomes of *Hordeum vulgare* revealing partial EdU staining (green) and DNA counterstained with DAPI.



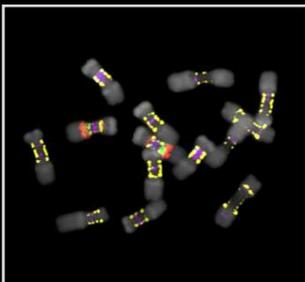
H. De Jong (Wageningen University, The Netherlands)

Abelmoschus esculentus with $2n=130$ chromosomes is composed of about 10 genomes, so $x=12-13$.



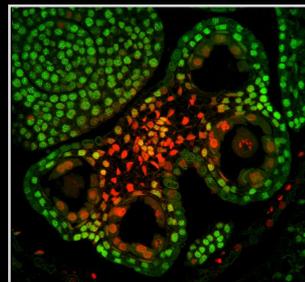
A. El-Nagish, S. Liedtke, L. Mann & Tony Heitkam (Faculty of Biology, TU Dresden, Germany & Institute of Biology, RWTH Aachen University)

Metaphase chromosomes of *Crocus sativus* after FISH with different satellite repeats (CroSat1, CroSat2, CroSat3, CroSat4, 5S rDNA, 45S rDNA).



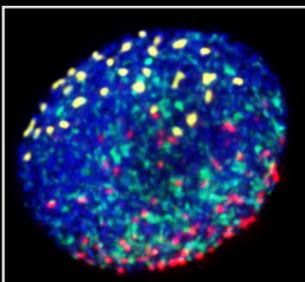
L. Ávila Robledillo & Jiří Macas (Biology Centre, CAS, Czech Republic)

Extended centromeres of *Lathyrus sativus* labeled with different satellite DNAs (FabTR-2, FabTR-54, PS6-C, PS6-A).



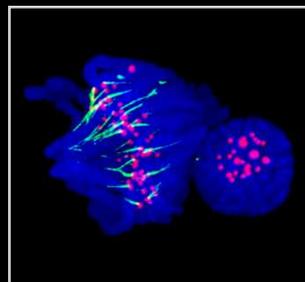
A. Brąszewska, A. Piński & A. Betekhtin (University of Silesia in Katowice, Poland)

Immunodetection of histone H4 acetylation (green) in an anther of *Fagopyrum tataricum*.



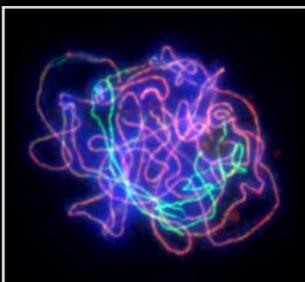
A. Doležalová, V. Koláčková & E. Hřibová (UEB, Olomouc, Czech Republic)

Cell nucleus of wheat (*Triticum aestivum*) at middle stage of S phase. Replicating DNA - EdU (green), centromeres - IF of CenH3 (yellow), and telomere FISH (red). Nuclear DNA - DAPI (blue).



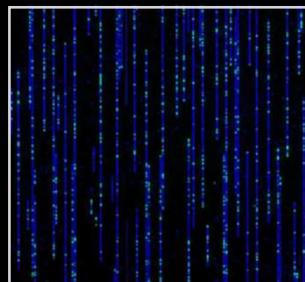
L. Oliveira, P. Neumann, A. Koblížková & J. Macas (Biology Centre CAS, České Budějovice, Czech Republic)

Distribution of the outer kinetochore protein NDC80 (red) and microtubules (green) on chromosomes and an inter-phase nucleus of *Cuscuta reflexa*.



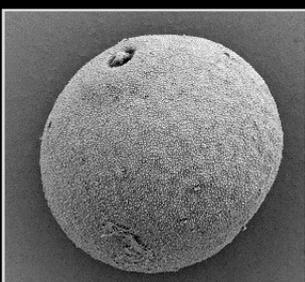
S. Heckmann & M. Cuacos (IPK, Gatersleben, Germany)

Meiotic chromosome axis remodelling during early pachytene in *Brassica rapa*. Chromosomes (blue), ASY1 (green) and ZYP1 (red)



S. Chan (Bionano) and **H. Šimková** (Institute of Experimental Botany, Olomouc, Czech Republic)

Genome optical mapping of wheat.



T. Rutten & A. Houben (IPK, Gatersleben, Germany)

Mature pollen of wheat (*Triticum aestivum*) analysed by scanning electron microscopy.

Acknowledgement

We would like to thank all colleagues who provided the beautiful contributions.

Jörg Fuchs and Andreas Houben (IPK, Gatersleben, Germany)