

[Epigenetics of long-term somatic embryogenesis in *Theobroma cacao* L.: DNA methylation and recovery of embryogenic potential | SpringerLink](https://doi.org/10.1007/s11240-017-1284-6)

The screenshot shows a web browser displaying a SpringerLink article. The browser's address bar shows the URL: <https://link.springer.com/article/10.1007/s11240-017-1284-6>. The page header includes the SpringerLink logo and a search bar. The article title is "Epigenetics of long-term somatic embryogenesis in *Theobroma cacao* L.: DNA methylation and recovery of embryogenic potential". Below the title, the authors are listed: Lilliana Alexandra Pila Quiñga, Hugo Pacheco de Freitas Fraga, Lella do Nascimento Vieira & Miguel Pedro Guerra. The journal information is "Plant Cell, Tissue and Organ Culture (PCTOC) 131, 295–305 (2017)". The article has 1280 accesses and 25 citations. The abstract text is as follows: "In *Theobroma cacao* L., declined embryogenic potential was observed in regenerated somatic embryos from long-term secondary somatic embryogenesis (SE). In order to explore the relationship between DNA methylation and the long-term secondary SE, the embryogenic potential and global DNA methylation levels in young (12 months-old), aged (36 months-old) and extra somatic embryogenesis (39 months-old) subjected to different 5-Azacytidine (5-azaC) treatments were comparatively assessed. Global DNA methylation levels increased in aged somatic embryos with long-term in vitro culture, but 5-azaC-supplemented treatments resulted in unaltered levels. In addition, DNA methylation pattern during SE was not affected by 5-azaC. DNA methylation increased during SE expression. Interestingly, the extra SE induction showed that aged somatic embryos can recover the embryogenic potential in treatment supplemented with 5-azaC at specific concentration. The outcome of this study". On the right side of the page, there is a "Buy article PDF" button for USD 39.95, with a note that the price includes VAT (Ecuador) and instant access to the full article PDF. Below this, there are links for "Rent this article via DeepDyve" and "Learn more about institutional subscriptions". At the bottom right, there are tabs for "Sections", "Figures", and "References", with "Abstract" selected. The Windows taskbar at the bottom shows the time as 03:39 p.m. on 03/04/2023.