Plio-Pleistocene history of the Tachikawa fault, southwest Kanto Plain, central Japan

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The Tachikawa fault is the nearest active fault of Tokyo metropolitan, central Japan. Late Quaternary history of the Tachikawa fault has been investigated since 1970's, while Plio-Pleistocene history unclear. The Sayama hill is located at the upthrown side and underlain by Plio-Early Pleistocene Sayama Formation and middle Middle Pleistocene Imokubo Formation. The Sayama Formation 1-2 Ma in age is composed of eustasy-controlled depositional sequences with unconformable relations, while Plio-Lower Pleistocene in other hills had accumulated upwards. This stratigraphic contrast suggests that the Tachikawa fault was active in deposition of the Sayama Formation. Commencement and acceleration timing of the active Tachikawa fault is Late Pliocene and middle Middle Pleistocene, respectively.