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Calcium phosphate layer deposited from simulated body fluid on (a) untreated and (b) nitrided titanium alloy. Here, the nitride surface was formed by atmospheric-pressure plasma jet. Although the surface morphologies seem analogous, the latter sample exhibits more rapid layer growth than the former. This result implies the potential of atmospheric-pressure plasma nitriding to improve the hard-tissue compatibility of titanium alloy. (Ryuji SANNOMIYA *et al.*, Plasma and Fusion Research, Vol.13, 1306120 (2018) <http://www.jspf.or.jp/>)