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*Cultivation of anammox bacteria from tropical environment:
Talago Lake, Tanah Datar, Indonesia.*

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Abstract: This study was conducted on the cultivation of anammox bacteria from a tropical environment. The sludge sample was taken from Talago Lake in Koto Baru, Tanah Datar, Indonesia where eutrophication takes place. Two Filter Biofilm Reactors (FtBR) were operated in ambient temperature and 35°C. A string wound filter was set in the middle of reactor and substrate containing ammonium and nitrite fed into reactor through the filter. After cultivation for 192 days, red biofilm appeared in the filter. Nitrogen removal efficiency (NRE) reached 79% in ambient temperature and 69% in 35°C. The result showed that anammox process occurred in the reactor. It needs to investigate the microbial communities.