Withdrawn notices

Deliu M, Yavuz S, Sperrin M, *et al.* P120 Challenges in using hierarchical clustering to identify asthma subtypes: choosing the variables and variable transformation. *Thorax* 2016;71: A148. doi:10.1136/thoraxjnl-2016-209333.263

This abstract has been withdrawn.

Thorax 2017;72:287. doi:10.1136/thoraxjnl-2016-209333.263wthn

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