

# Analysis of tobacco products for implementation of article 9 and 10 of the WHO FCTC

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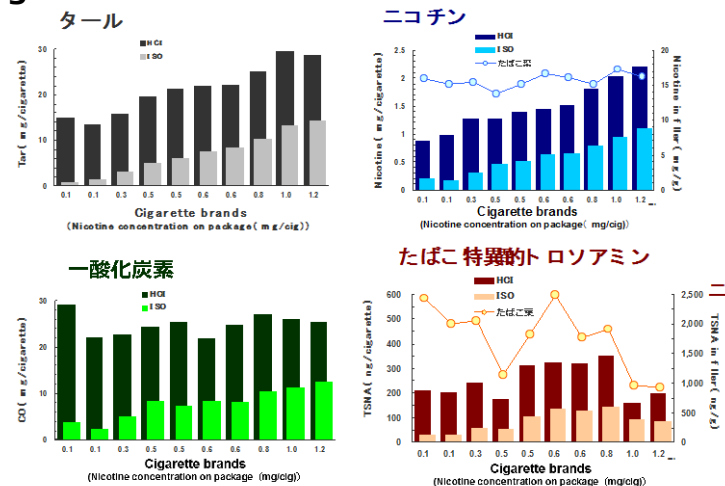
## Collaboration with WHO TobLabNet and standardization of analysis methods of tobacco products

International standardization of the harmful chemical compounds analysis of cigarettes

Development of the harmful chemical compounds analysis and create standard operating procedure (SOP).

I already participated in WHO TobLabNet and created SOPs of benzo [a] pyrene and tobacco-specific nitrosamines from mainstream smoke, nicotine, ammonia and propylene glycol of tobacco fillers. Next, standardization of analysis methods of novel tobacco products.

## Analysis of harmful compounds from domestic cigarette brands



## Development of biomarkers analysis methods of Japanese smokers and secondhand smokers

Exposure biomarkers

tobacco specific chemical compounds; cotinine, 3-hydroxycotinine and tobacco specific nitrosamines metabolites.

Other compounds; polycyclic aromatic hydrocarbons metabolites and volatile organic compounds metabolites.

Oxidative stress makers

8-hydroxy-2'-deoxyguanosine and 8-isoprostane

## Novel tobacco products research



Determination of harmful chemical compounds from smokeless tobacco, menthol cigarette and heat-not burn tobacco