

Supplemental Material

**Real-Time Exposure to 3D-Printing Emissions Elicits Metabolic and Pro-Inflammatory
Responses in Human Airway
Epithelial Cells**

Barnett, L,^{1†} He, X.,^{1†} Jeon, J.,¹ Zhang, Q.,¹ Alqahtani, S.,^{2,3} Black, M.,¹ Shannahan, J.,² Wright,
C.^{1*}

¹Chemical Insights Research Institute, UL Research Institutes, Marietta, GA 30067

²School of Health Sciences, Purdue University, West Lafayette, IN 47907

³Present affiliation: Advanced Diagnostic and Therapeutics Technologies Institute, Health Sector, King Abdulaziz City for Science and Technology (KACST), Riyadh 12354, Saudi Arabia

* Corresponding author: Christa.Wright@ul.org. Center for Toxicology and Human Health, Chemical Insights Research Institute, UL Research Institutes. 2211 Newmarket Parkway, Suite 106, Marietta, GA 30067.

† These authors contributed equally to this work.

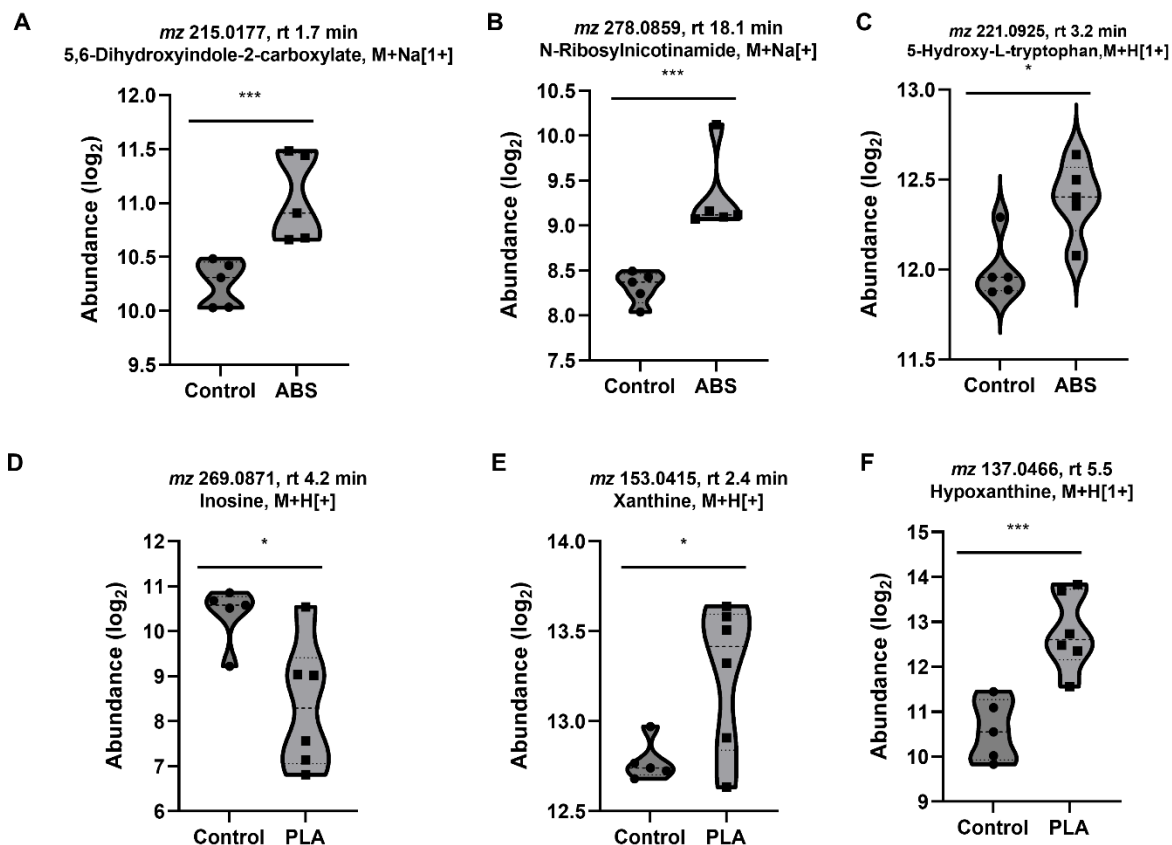


Figure S1. Change of metabolites in SAECs induced by ABS emission (A-C) and PLA emission (D-F). (A) 5,6-Dihydroxyindole-2-carboxylate. (B) N-Ribosylnicotinamide. (C) 5-Hydroxy-L-tryptophan. (D) Inosine. (E) Xanthine. (F) Hypoxanthine. $n = 5-6$. * $p < 0.05$, ** $p < 0.01$, *** $p < 0.001$.