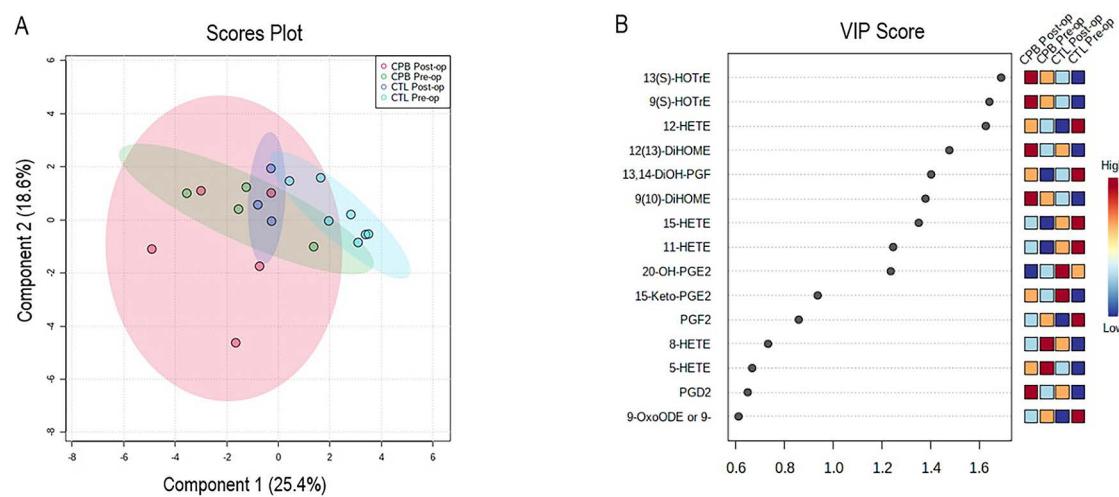


**Fig. S1. Differential Abundance in the CPB/DHCA Group at the Family and Genus levels.**

Panel A depicts taxonomic family rank changes in organism abundance of the CPB/DHCA group showing waterfall plot (top) and the corncob plot (bottom). Panel B depicts taxonomic genus rank changes in organism abundance of the CPB/DHCA group with waterfall plot (top) and corncob plot (bottom). Both waterfall plot and corncob plot show LOG fold changes of organisms that are different between the two groups.



**Fig. S2. Partial least squares discriminate analysis and VIP scoring for Stool Eicosanoids in the CPB/DHCA Group and Controls.** Panel A shows a two dimensional score plot with differences between the two groups and time points for each group. Panel B shows a VIP score for different eicosanoids in each group based upon the results from the PLS-DA model.  
CPB, Cardiopulmonary bypass; CTL, Control; VIP, Variable importance in PLS-DA model.

**Table S1. Hemodynamic Support and Vasoactive Inotrope Score Following CPB**

Piglets	Vasoactive Inotrope Score	Milrinone mcg/kg/min	Dopamine mcg/kg/min	Epinephrine mcg/kg/min	Vasopressin mcg/kg/min	Event
<b>Piglet #1</b>						
Hour 0	12	0.5	2	0.05	0	Off bypass
Hour 1	20	0.5	2	0.08	0.0005	
Hour 2	23	0.3	2	0.08	0.001	
Hour 3	23	0.3	2	0.08	0.001	
Hour 4	23	0.3	2	0.08	0.001	Pre-euthanasia
<b>Piglet #2</b>						
Hour 0	19	0.5	5	0.09	0	Off bypass
Hour 1	19	0.5	5	0.09	0	
Hour 2	19	0.5	5	0.09	0	
Hour 3	19	0.5	5	0.09	0	
Hour 4	19	0.5	5	0.09	0	Pre-euthanasia
<b>Piglet #3</b>						
Hour 0	15	0.5	5	0.05	0	Off bypass
Hour 1	15	0.5	5	0.05	0	
Hour 2	15	0.5	5	0.05	0	
Hour 3	16	0.3	5	0.08	0	
Hour 4	16	0.3	5	0.08	0	Pre-euthanasia
<b>Piglet #4</b>						
Hour 0	12.7	0.5	2	0.05	0	Off bypass
Hour 1	10.7	0.3	2	0.05	0	
Hour 2	10.7	0.3	2	0.05	0	
Hour 3	10.7	0.3	2	0.05	0	
Hour 4	10.7	0.3	2	0.05	0	Pre-euthanasia
<b>Piglet #5</b>						
Hour 0	12	0.5	2	0.05	0	Off bypass
Hour 1	12	0.5	2	0.05	0	
Hour 2	10	0.3	2	0.05	0	
Hour 3	7	0	2	0.05	0	
Hour 4	7	0	2	0.05	0	Pre-euthanasia

CPB, Cardiopulmonary bypass; mcg, microgram; kg, kilogram; min, minute