

**SUPPLEMENTAL TABLE 1****Sample collection method and adverse pregnancy outcomes**

<b>Study</b>	<b>Tissue collection</b>	<b>Comparison</b>
Antony et al <sup>59</sup>	Discard placental membranes and maternal decidua; collection 4 cm from cord insertion site	Term gestation, no excess gestational weight gain vs PTB with excess gestational weight gain
Aagaard et al <sup>57</sup>	Discard placental membranes and maternal decidua; collection 4 cm from cord insertion site	Placental microbiome associated with term birthweight compared with PTB placentas and nonpregnant oral microbiome reported within Human Microbiome Project
Prince et al <sup>58</sup>	Swabs from fetal chorion and/or villous placental membranes adjacent to fetal side, avoiding maternal side	Term birth placenta with and without chorioamnionitis vs PTB placentas with and without chorioamnionitis
Zheng et al <sup>61</sup>	Discard placental membranes and maternal decidua; collection 4 cm from cord insertion site	Full-term infants; normal vs LBW

LBW, low birthweight; PTB, preterm birth.

Fischer. Placental colonization with periodontal pathogens: the potential missing link. *Am J Obstet Gynecol* 2019.

## SUPPLEMENTAL TABLE 2

## Changes in placental microbiome in association with APOs as compared with normal for gestational weight term births

Components of the microbiome	LBW <sup>61</sup>	PTB <sup>57,58,a,b</sup> PTB with excess gestational weight gain <sup>59,c</sup>
Phylum		
<i>Actinobacteria</i>	↑	Specific order reported <sup>a</sup> Phylum reported <sup>c</sup>
<i>Bacteroidetes</i>	Specific genus reported	NR
<i>Cyanobacteria</i>	↓	Specific genus reported <sup>a</sup> Phylum reported <sup>c</sup>
<i>Firmicutes</i>	↓	Specific species reported <sup>a</sup> Phylum reported <sup>c</sup>
<i>Fusobacteria</i>	↑	Specific genus reported <sup>a</sup>
<i>Proteobacteria</i>	↑	Specific class or genus reported <sup>a,c</sup>
Class		
Phylum Proteobacteria		
Class Alphaproteobacteria	NR	↑ <sup>a</sup>
Order		
Phylum Actinobacteria		
Order Actinomycetales	NR	↑
Genus		
Phylum Bacteroidetes		
Genus <i>Shingobacterium</i>	↑	NR
Phylum Cyanobacteria		
Genus <i>Cyanobacteria_unclassified</i>	↓	NR
Genus <i>Cyanobacteria_norank</i>	↓	NR
Phylum Firmicutes		
Genus <i>Paenibacillus</i>	NR	↑
Genus <i>Lactococcus</i>	↑	NR
Genus <i>Bacillus</i>	↑	NR
Genus <i>Megasphaera</i>	↑	NR
Genus <i>Faecalibacterium</i>	↑	NR
Genus <i>Jeotgalicoccus</i>	↑	NR
Genus <i>Pediococcus</i>	↑	NR
Genus <i>Lactobacillus</i>	↓	Specific species reported
Genus <i>Enterococcus</i>	↓	NR
Genus <i>Clostridium_sensu_stricto_1</i>	↓	NR
Genus <i>Ruminococcus</i>	↓	NR

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(continued)

## SUPPLEMENTAL TABLE 2

## Changes in placental microbiome in association with APOs as compared with normal for gestational weight term births (continued)

Components of the microbiome	LBW <sup>61</sup>	PTB <sup>57,58,a,b</sup> PTB with excess gestational weight gain <sup>59,c</sup>
Phylum Fusobacteria		
Genus <i>Sneathia</i>	↑	NR
Genus <i>Fusobacterium</i>	NR	↑ <sup>d</sup>
Phylum Proteobacteria		
Genus <i>Lawsonia</i>	↓	NR
Phylum Proteobacteria		
Genus <i>Beijerinckia</i>		Direction not indicated <sup>c</sup>
Genus <i>Burkholderia</i>	NR	↑ <sup>a,c</sup>
Genus <i>Vibrio</i>		↑ <sup>c</sup>
Phylogeny unknown		
DSSF69_norank	↑	NR
Species		
Phylum Firmicutes		
Genus <i>Lactobacillus</i>		
Species <i>Lactobacillus crispatus</i>	NR	↓
Species <i>Lactobacillus acidophilus</i>	NR	↓
Genus <i>Streptococcus</i>		
Species <i>Streptococcus thermophiles</i>	NR	↑
Species <i>Streptococcus agalactiae</i>	NR	↑ <sup>d</sup>
Genus <i>Ureaplasma</i>		
Species <i>Ureaplasma urealyticum</i>	NR	↑ <sup>d</sup>
Species <i>Ureaplasma parvum</i>	NR	↑ <sup>d</sup>
Phylum Fusobacteria		
Genus <i>Fusobacterium</i>		
Species <i>Fusobacterium nucleatum</i>	NR	↑ <sup>d</sup>

APO, adverse pregnancy outcome; LBW, low birthweight; NR, not reported; PTB, preterm birth.

<sup>a</sup> Preterm birth outcomes in study<sup>57</sup>; <sup>b</sup> Preterm birth outcomes in study<sup>58</sup>; <sup>c</sup> Preterm birth with excess gestational weight gain in study<sup>59</sup>; <sup>d</sup> With concurrent chorioamnionitis.

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