





Where does BFID stand in the US today? 4													
	Blood		Semen			Saliva		Urine	Feces				
	Presumptive	Immuno assay	Presumptive	Microscopic ID	P30	Presumptive	Immuno assay	Pres.	Pres.				
VA DFS	х		х	х	Х*								
NY OCME	х				Х*								
TX DPS	Х*		Х*	X*	Х*								
AK DPS	х	Х*	х		х								
Houston FSC	х	Х*	х	Х*	Х*								
MI SP	х	Х*	х	х	Х*		х						
ID SP	х	Х*	х	х	Х*	х		Х	х				
Suffolk Co	х	Х*	х	x	Х*	х		х	х				





## Where does BFID stand in the US today?

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Sperm and Nonsperm fraction quantification data used to infer presence of sperm

- NOT male and female fractions
- Sperm and Nonsperm fractions?
- Better called Fractions 1 and 2?









































Where is the research g miRNA panels	oing?	0		•	29				
<ul> <li>Small, non-coding RNAs (18-25 nucleotides) that suppress protein expression by binding to messenger RNA in the cytosol</li> </ul>	logistade augustad	:		i • •	Figure 4. A milNA panel for forenaic boly Audi identification using differ- tion of the second second second second train incredions, allow, somen, and urine can be differentiated based on sepression patterns of these size noil. Nah, normalized with hird y and i an identification boly fluxits are in dentification boly fluxits are				
<ul> <li>Assist in regulatory processes and therefore can be:         <ul> <li>Consistently expressed in all tissues</li> <li>Tissue-specific</li> </ul> </li> </ul>	<sup>43</sup> and								
	Body Fluid	н	Classification	Another Body Fluid	Other				
	Blood	49	97.96%	2.04%	0.00%				
<ul> <li>Encapsulation in proteins and lipid</li> </ul>	Mens.	50	72.00%	28.00%	0.00%				
vesicles provide protection and	Feces	50	98.00%	2.00%	0.00%				
tability	Urine	46	84.80%	15.20%	0.00%				
stability	Saliva	50	84.00%	16.00%	0.00%				
	Semen	50	90.00%	10.00%	0.00%				
<ul> <li>Detectable in DNA extracts</li> </ul>	vag.	50	7200%	28,00%	0.00%				
				Seashols-Williams et	al. Electrophoresis 2016				



## Conclusions

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BFID continues to be an important part of the analysis workflow for many forensic cases

- New Markers/Systems should be: Informative with confidence intervals Robust Sensitive Able to discriminate mixtures Streamlined implementation -OR- NO extra effort put the markers into a larger HTS panel