Introducing PGTai[SM]

CooperGenomics' revolutionary approach to PGT-A (PGS)

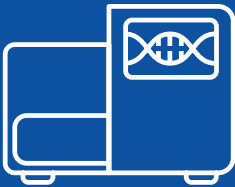# Technology plays a central role in PGT-A

More advanced technology has been shown to produce more reliable results

Over the years, advances in technology have played a pivotal role in the evolution of PGT. These technological innovations have driven improvements in accuracy, sensitivity and specificity of PGT-A results.

We are proud to announce the next leap in PGT-A technology. Our esteemed scientific experts have developed a revolutionary new platform in PGT-A analysis and reporting.

CooperGenomics Technology

Data is generated via NGS

Data is analyzed using mathematical algorithms & machine learning technology

- Our new technology uses algorithms validated through a massive continuously growing data set **(>10,000 samples)**

Existing Technology

Data is generated via NGS

Data is converted to an image

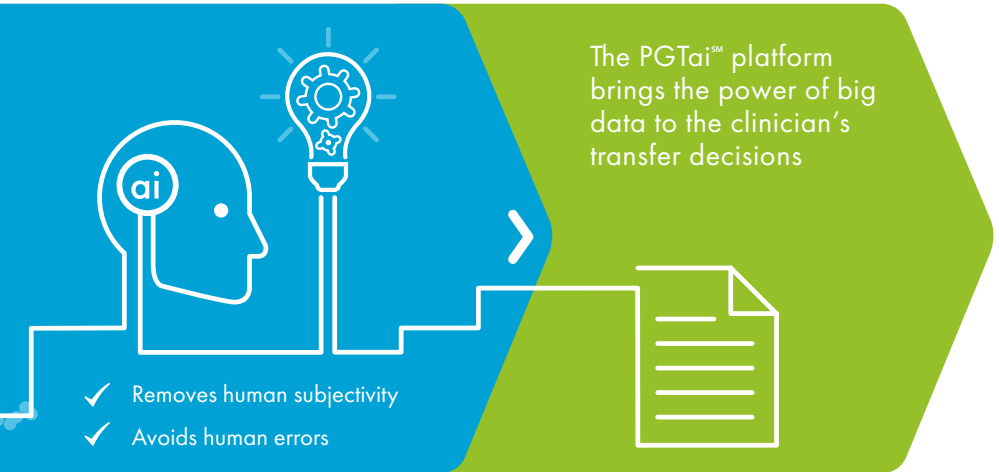- Current algorithms are validated using a small subset of data **(~100 samples)**

Introducing CooperGenomics[SM] PGTai[•SM]
A new PGT-A interpretation and reporting platform

The PGTai[SM] platform is a ground-breaking algorithm that harnesses the power of big data using a massive reference set to maximize PGT-A calling, interpretation & reporting.

- Innovative tool that leverages the data accumulated over the history of PGT-A at CooperGenomics

- Only analysis platform in the field built from a truth data set of known euploid pregnancies (>1000)

- Allows transfer decisions based on mathematical and statistical predictions, removing the limitation of human interaction, subjectivity, and error

- Employs machine learning to enable continuous controlled improvement

- Improves signal clarity increasing accuracy, to ensure optimal sensitivity and specificity*

  *Internal CooperGenomics, data on file, 2018

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The PGTai[SM] platform brings the power of big data to the clinician's transfer decisions

✓ Removes human subjectivity
✓ Avoids human errors

The image is analyzed by a human, making inferences based on this image

X Subjective
X Allows for human error (transcription & interpretation)

Clinicians make transfer decisions on a limited, human-driven, data set

	CooperGenomics PGTai℠	Other
Algorithm built on/verified (validated) on	>1,000/>10,000	~100/?
Modeled on live birth data	✓	X
Detects mosaicism	✓, 20-80%	Some, 30-70%
Removes human subjectivity	✓	X
Minimizes human (interpretation & transcription) error	✓	X
Platform	Custom/Dynamic	Off the shelf/ Static
Can be performed without ICSI	✓	Some

We understand the care and effort that goes into every IVF success story. We strive to continually innovate our full solution of products to always provide you the highest possible levels of service and expertize for all of your fertility and genomics needs.