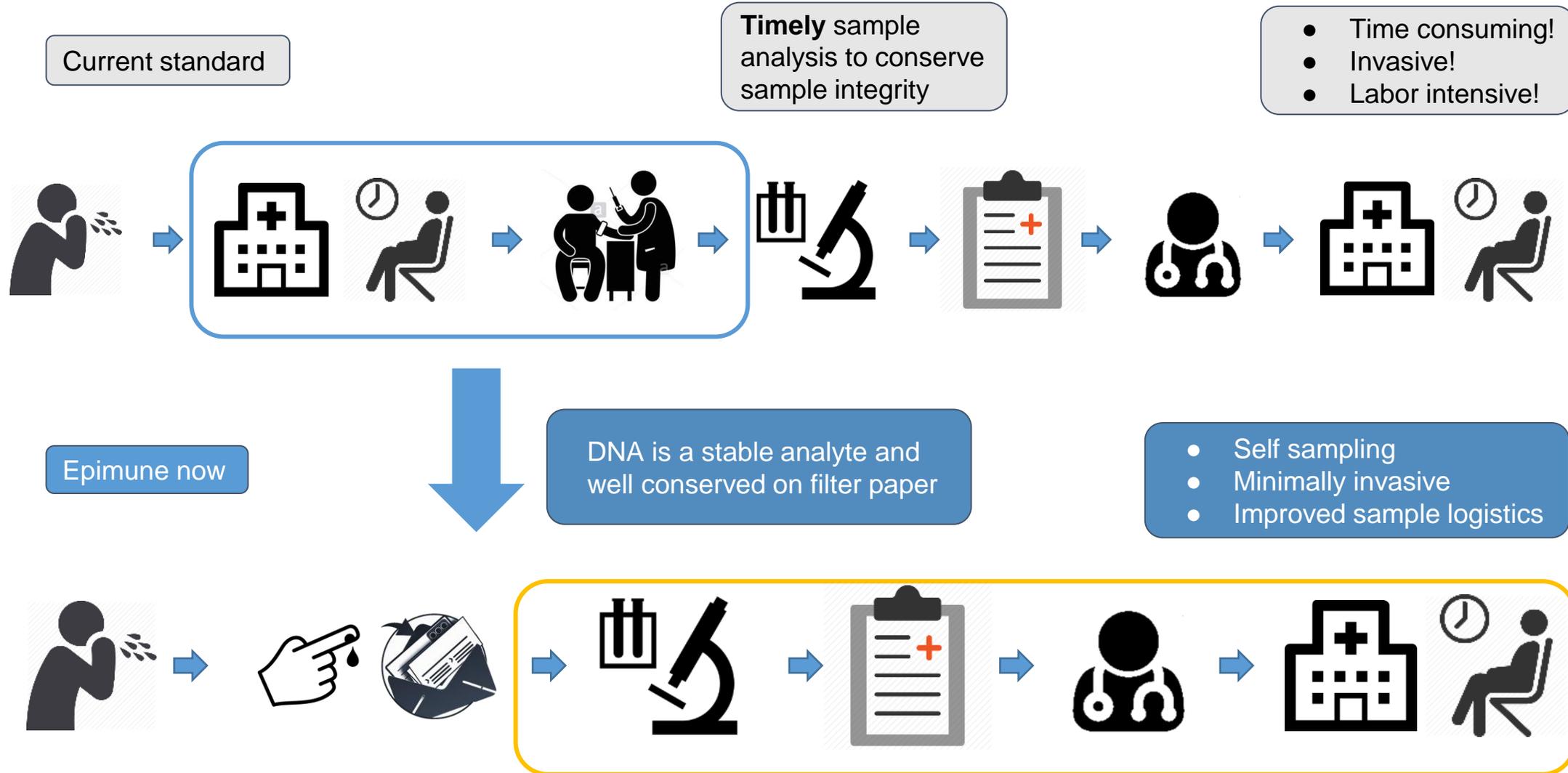




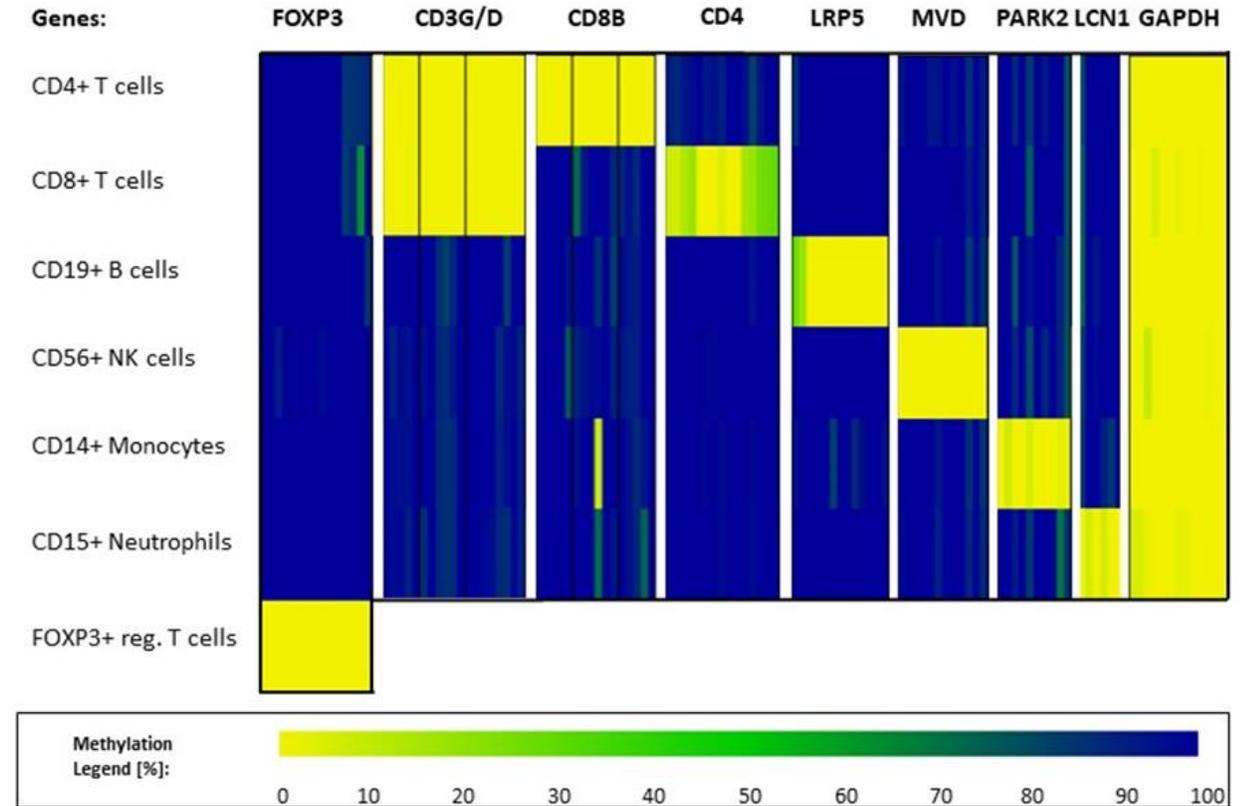
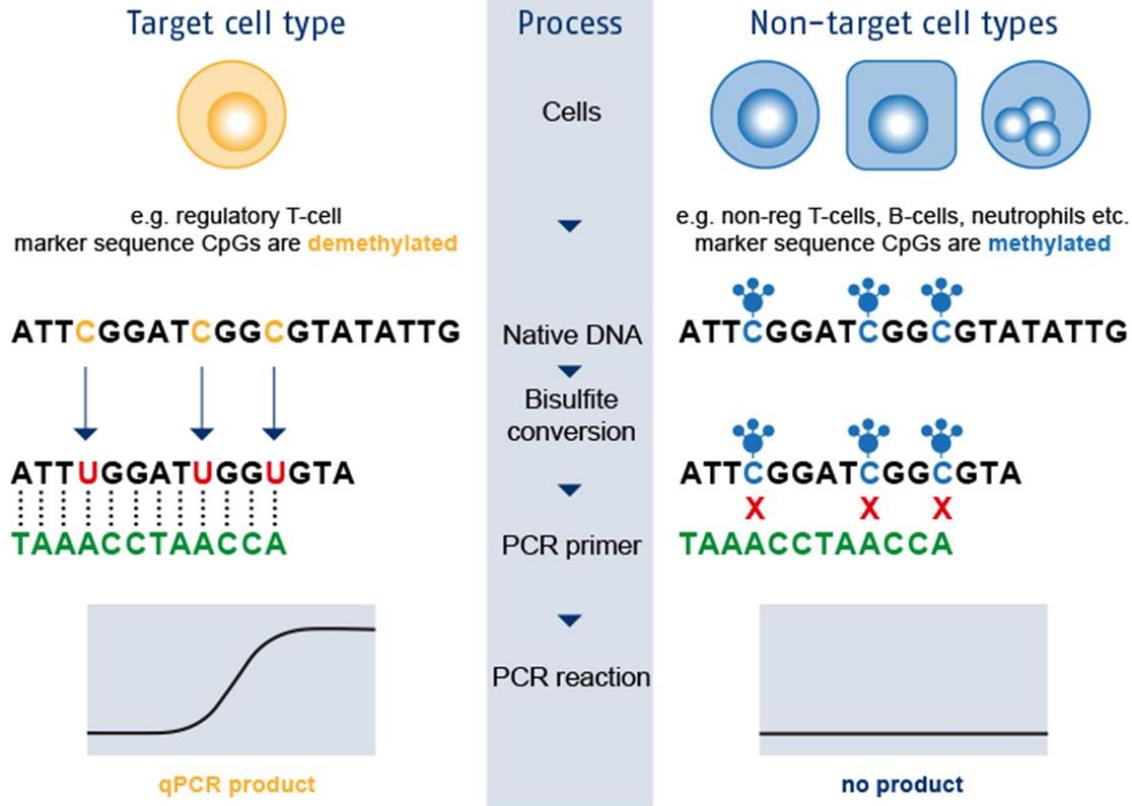
EPIMUNE™
DIAGNOSTICS

Epigenetic Immune Cells Quantification For
Diagnosis and Monitoring of Patients in
Resource Limited Settings

Current Standard of Immune Cell Monitoring

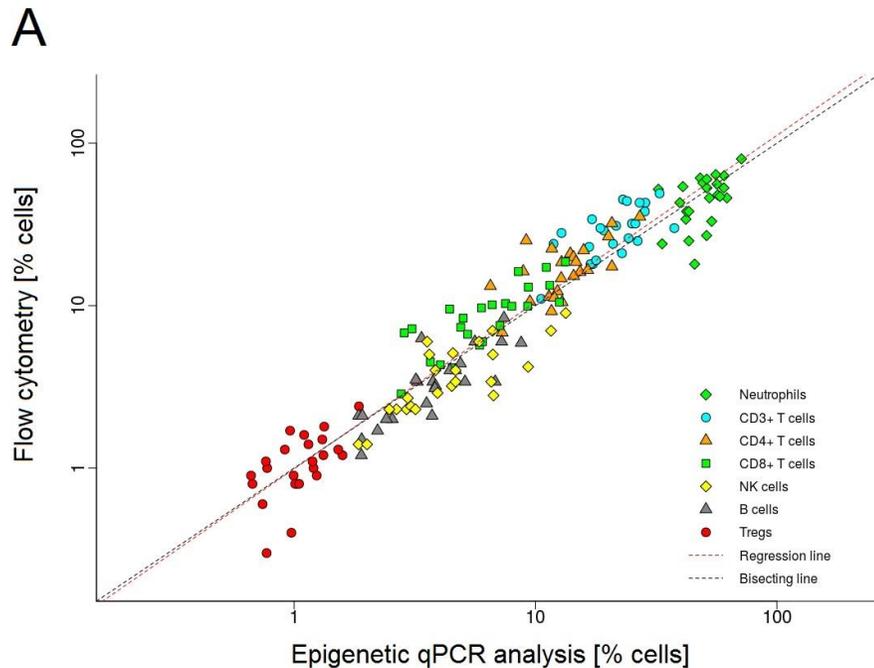


Epimune Methodology

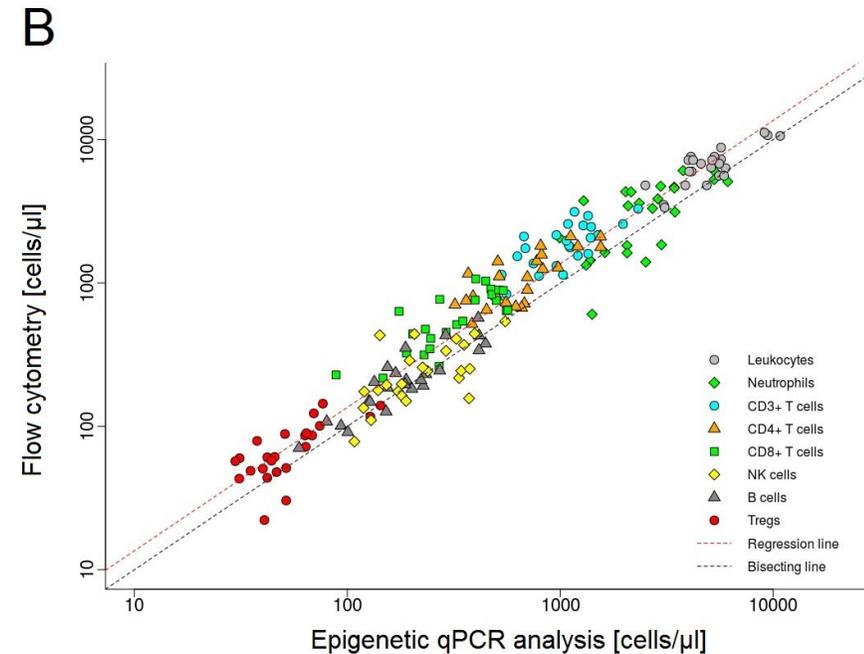


Correlation of Epigenetic Cell Quantification to Flow Cytometry

Relative Quantification [%]



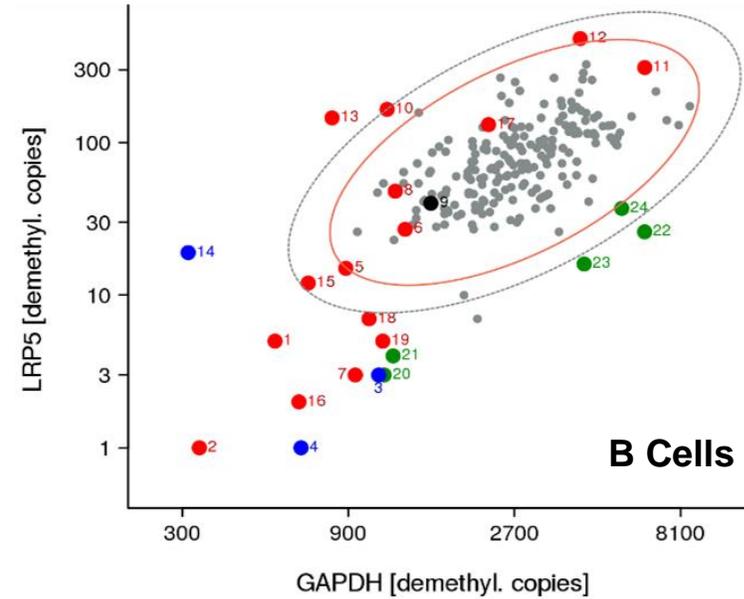
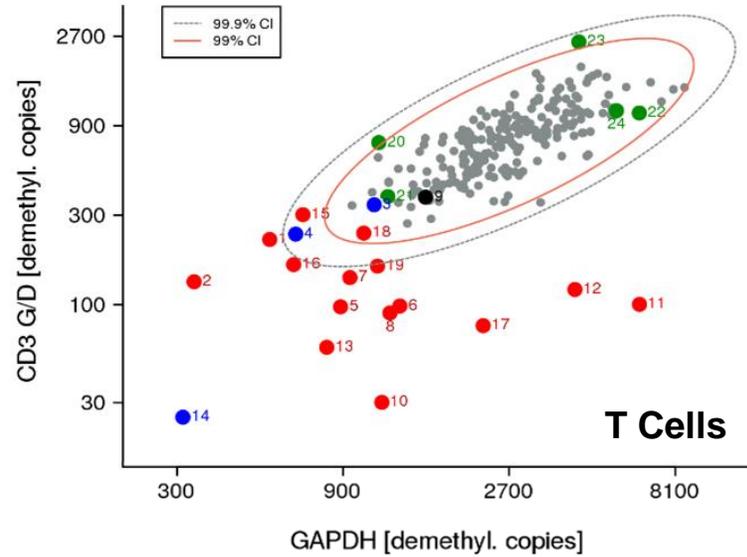
Absolute Quantification [cells/ μ l]



Baron et al. 2018;
Sci Transl Med

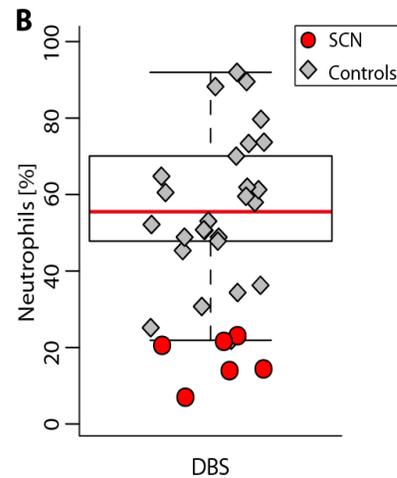
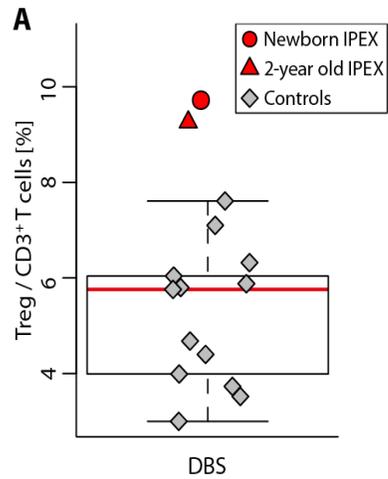
- Epigenetic immune cell quantification allows the detection of all major immune cell types as well as highly specialized populations like regulatory T cells
- Relative and absolute quantification show excellent correlation to standard flow cytometry measurement

Identification of PID/PIRD Patients



- SCID
- DO-SCID
- SCID (Maternal Engraftment)
- XLA
- controls

Baron et al. 2018;
Sci Transl Med



- Correct identification of 23 out of 24 PID cases from dried blood spots
- PIDs not covered by current newborn screening like IPEX or Severe Congenital Neutropenia (SCN) were also detected

Conclusion

- Epigenetic immune cell quantification allows complete immune cell profiling from a drop of blood dried on filter paper
- Drastically reduced sample logistic requirements
- Correct identification of PIDs/PIRDs such as SCID, XLA, IPEX and Neutropenia was demonstrated

i.Mune™ Tests*

Coming soon !



Relative and absolute quantification** of T-, B- and NK lymphocytes from dried blood spots (DBS) or fresh blood



Relative and absolute quantification** of TSDR+ regulatory T cells (Treg) and CD3+ T-cells from dried blood spots (DBS) or fresh blood



Comprehensive immune cell quantification** from dried blood spots (DBS) or fresh blood

*i.Mune products are not registered as IVD products and have not been approved or cleared by a regulatory authority. Use for exploratory purposes, only.

**Relative quantification (%) is possible for all sample types; absolute quantification (cells/ μ l) for fresh blood, only.

Epimune™ and i.Mune™ are registered trademarks of Epimune GmbH, in Europe, USA and/or other selected countries, with trademarks pending in the US. All other trademarks, brands, names contained herein are the property of their respective owners.