

NGS Read Coverage Normalization

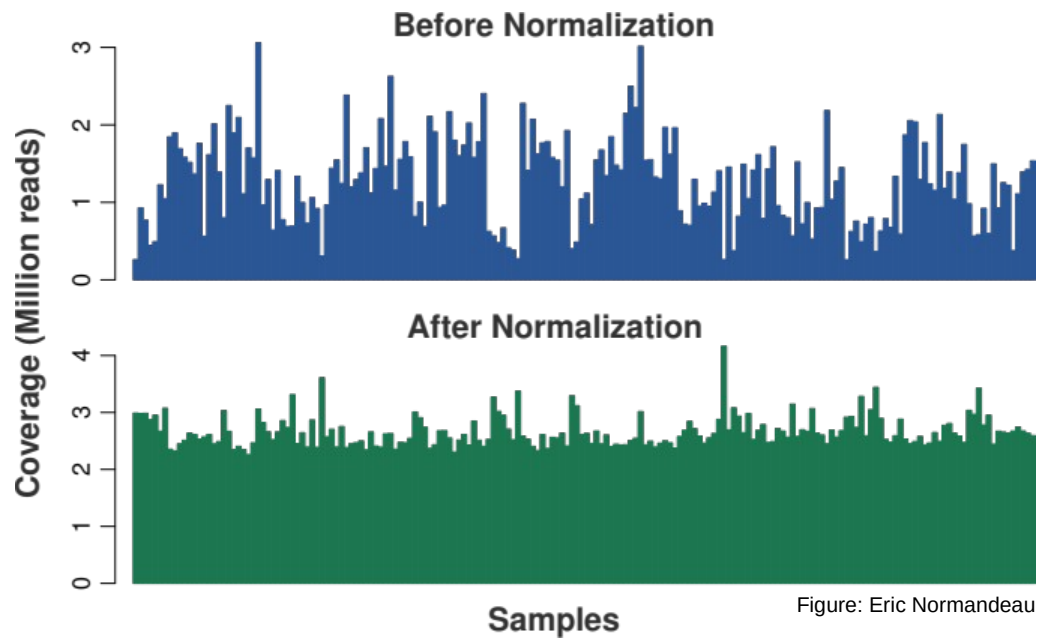


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Benefits of NGS read coverage normalization

- Greatly improved read count uniformity across samples
- Reduced impact of sample quality and experimental variation
- Less missing data means higher-quality genotypes
- More samples retained and more robust genetic analyses



When to consider normalization

- Greatest benefits for GBS datasets
- All NGS projects can be optimized
- Varying sampling periods or origins
- Different extraction and preservation protocols



Coverage normalization procedure

- Library preparation
- First round of sequencing
- Evaluating yield per library
- Sequencing adjusted libraries
- Combining all sequences
- Analyses with improved dataset

Higher-quality data for improved results