

# Resource Summary Report

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## DecGPU

RRID:SCR\_000585

Type: Tool

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### Proper Citation

DecGPU (RRID:SCR\_000585)

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### Resource Information

**URL:** <http://decgpu.sourceforge.net/homepage.htm>

**Proper Citation:** DecGPU (RRID:SCR\_000585)

**Description:** Software tool as parallel and distributed error correction algorithm for high-throughput short reads using CUDA and MPI parallel programming models.

**Synonyms:** Distributed short read Error Correction on GPUs

**Resource Type:** software resource

**Defining Citation:** [PMID:21447171](#)

**Keywords:** k-mer based corrector, k-mer spectrum, illumina short read, multistage workflow, bio.tools

**Availability:** Free, Available for download, Freely available

**Resource Name:** DecGPU

**Resource ID:** SCR\_000585

**Alternate IDs:** biotools:decgpu, OMICS\_01101, SCR\_011850, OMICS\_01060

**Alternate URLs:** <http://musket.sourceforge.net/homepage.htm#latest>,  
<https://bio.tools/decgpu>

**License:** GNU General Public License version 3.0

**Record Creation Time:** 20220129T080202+0000

**Record Last Update:** 20260821T193612+0000

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### Ratings and Alerts

No rating or validation information has been found for DecGPU.

No alerts have been found for DecGPU.

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## Data and Source Information

**Source:** [SciCrunch Registry](#)

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## Usage and Citation Metrics

We found 5 mentions in open access literature.

**Listed below are recent publications.** The full list is available at [NIF](#) .

Gallone B, et al. (2016) Domestication and Divergence of *Saccharomyces cerevisiae* Beer Yeasts. *Cell*, 166(6), 1397.

Laehnemann D, et al. (2016) Denoising DNA deep sequencing data-high-throughput sequencing errors and their correction. *Briefings in bioinformatics*, 17(1), 154.

Thangam M, et al. (2015) CRCDA--Comprehensive resources for cancer NGS data analysis. *Database : the journal of biological databases and curation*, 2015.

Liu Y, et al. (2013) Musket: a multistage k-mer spectrum-based error corrector for Illumina sequence data. *Bioinformatics (Oxford, England)*, 29(3), 308.

Liu Y, et al. (2011) DecGPU: distributed error correction on massively parallel graphics processing units using CUDA and MPI. *BMC bioinformatics*, 12, 85.