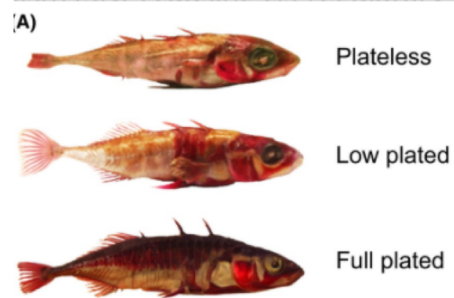


Read construction

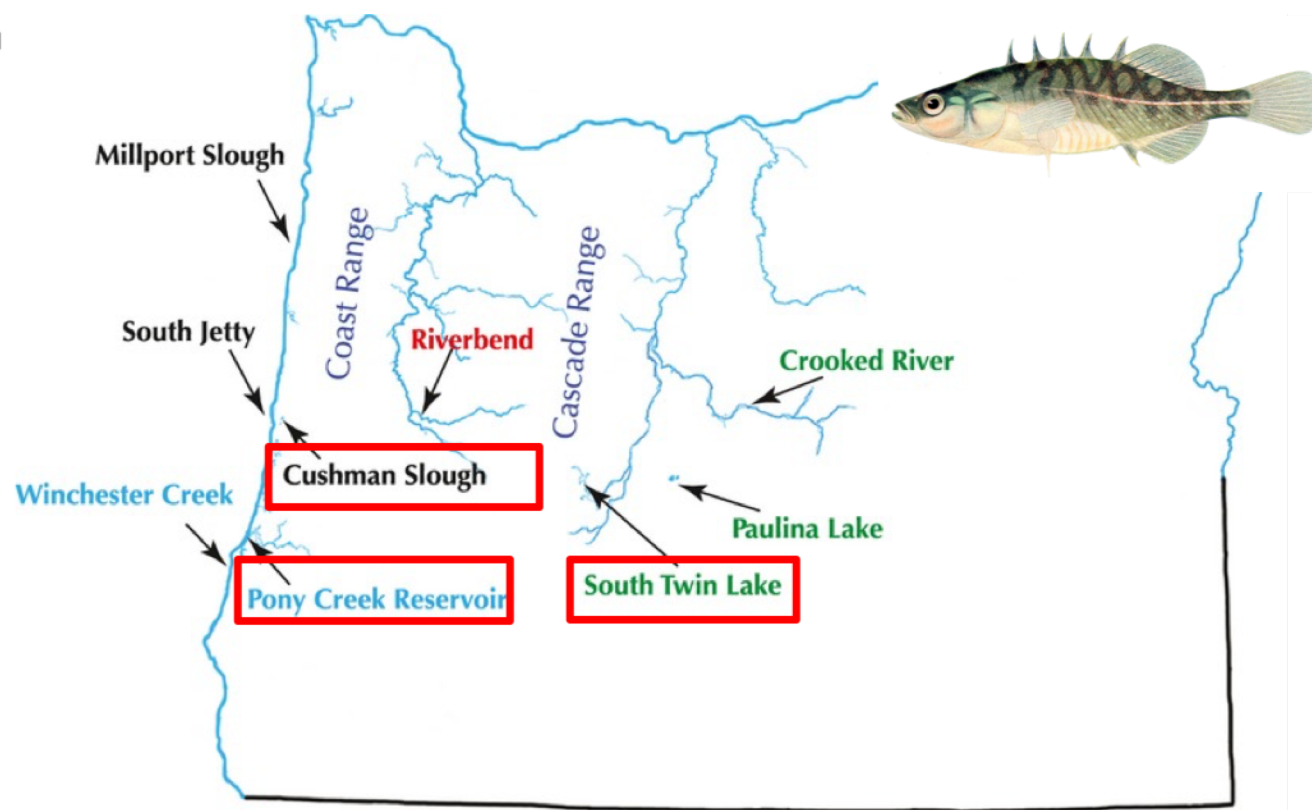


Read construction





Mazzarella et al. 2016



Catchen et al 2013

Denovo pipeline

P
i
p
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i
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e



USTACKS

Build loci de novo

CSTACKS

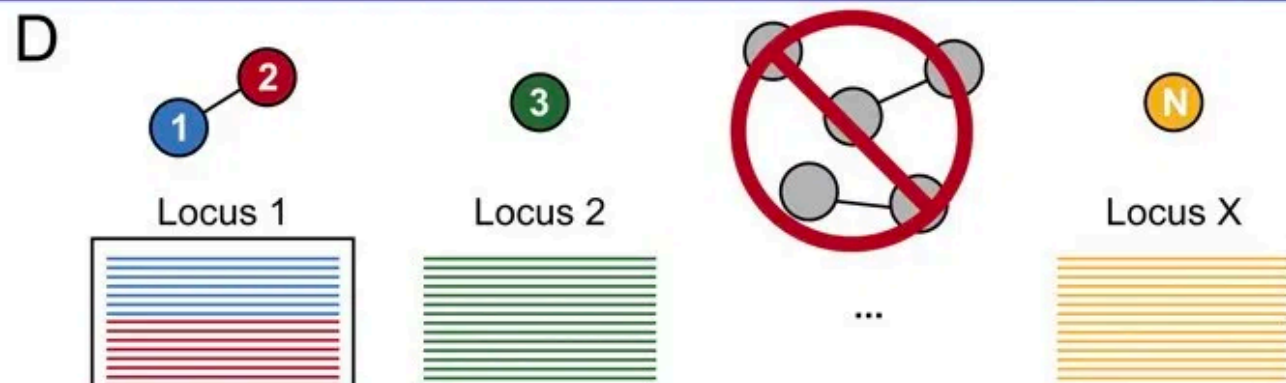
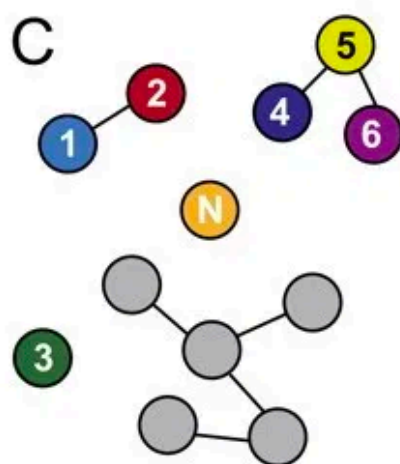
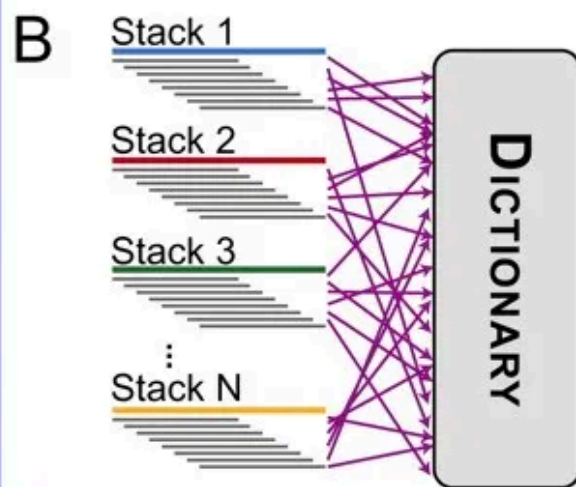
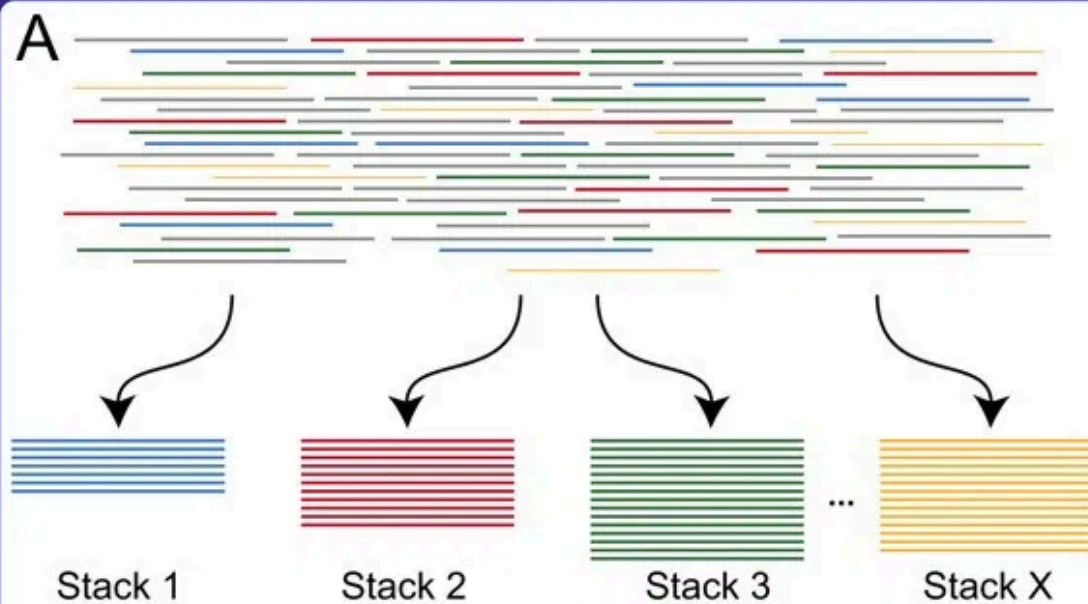
Assemble catalog

SSTACKS

Match to catalog

Populations

Filter loci and compute
Population statistics



E

1° reads

TGCAGGACACACAGGAGCTGAGCCATTCCTGCGGCTCC	C	GACCAAACGTTTG
TGCAGGACACACAGGAGCTGAGCCATTCCTGCGGCTCC	C	GACCAAACGTTTG
TGCAGGACACACAGGAGCTGAGCCATTCCTGCGGCTCC	C	GACCAAACGTTTG
TGCAGGACACACAGGAGCTGAGCCATTCCTGCGGCTCC	C	GACCAAACGTTTG
TGCAGGACACACAGGAGCTGAGCCATTCCTGCGGCTCC	A	GACCAAACGTTTG
TGCAGGACACACAGGAGCTGAGCCATTCCTGCGGCTCC	A	GACCAAACGTTTG
TGCAGGACACACAGGAGCTGAGCCATTCCTGCGGCTCC	A	GACCAAACGTTTG
TGCAGGACACACAGGAGCTGAGCCATTCCTGCGGCTCC	A	GACCAAACGTTTG
TGCAGGACACACAGGAGCTGAGCCATTCCTGCGGCTCC	A	GACCAAACGTTTG
TGCAGGACACACAGGAGCTGAGCCATTCCTGCGGCTCC	A	GACCAAACGTTTG
TGCAGGACACACAGGAGCTGAGCCATTCCTGCGGCTCC	A	GACCAAACGTTTG
TGCAGGACACACAGGAGCTGAGCCATTCCTGCGGCTCC	A	GACCAAACGTTTG

2° reads

TGC	G	GGACACACAGGAGCTGAGCCATTCCTGCGGCTCC	C	GACCAAACGTTTG
TGCAGGACACACAGGAGCTGAGCCATTCCTGCGGCTCC	A	GACCAAACGTTTG	C	TG
TGCAGGACACACAGGAGCTGAGCCATTCCTGCGGCTCC	A	GACCAAACGTTTG	C	GACCAAACGTTTG
TGCAGGACACACAGGAGCTGAGCCATTCCTGCGGCTCC	T	GCGGCTCC	A	GACCAAACGTTTG
TGCAGGACACAGGAGCTGAGCCATTCCTGCGGCTCC	C	GACCAAACGTTTG	C	GACCAAACGTTTG



F

TGCAGGACACACAGGAGCTGAGCCATTCCTGCGGCTCC $\frac{C}{A}$ GACCAAACGTTTG

Parameter Description	denovo_map.p 1 Parameter	Pipeline component	Component Parameter	Default Value
Minimum stack depth / minimum depth of coverage	-m	ustacks	-m	3
Distance allowed between stacks	-M	ustacks	-M	2
Distance allowed between catalog loci	-n	cstacks	-n	1

reference pipeline

P
i
p
e
l
i
n
e

USTACKS

Build loci de novo

CSTACKS

Assemble catalog

SSTACKS

Match to catalog

Populations

Filter loci and compute
Population statistics



P
i
p
e
l
i
n
e



Alignment to a reference genome

Populations

Filter loci and compute
Population statistics