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biological parts, and abstraction; a detailed description of the bacteriophages that have been refactored up to this point; and the methods of refactoring and contexts for that work drawn from the bacteriophage M13.

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Lectures on Synthetic...

present Genome Calligrapher, a computer-aided design web tool intended for whole genome refactoring of bacterial chromosomes for de novo DNA synthesis. By applying a neutral recoding algorithm, Genome Calligrapher optimizes GC content and removes obstructive DNA features

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known to interfere with the synthesis of double-stranded DNA and the

Genome Calligrapher: A Web Tool for Refactoring Bacterial ...

Two of the key technologies, genome synthesis and genome editing, which allows us to produce efficient strains for chemical production. This is what we're

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going to talk about today. Genome synthesis and genome editing are core technologies that sit in the build stage in design build test cycle for chassis engineering.

Building biological systems I: Genome synthesis and genome ...

Here, we present Genome Calligrapher,

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a computer-aided design web tool intended for whole genome refactoring of bacterial chromosomes for de novo DNA synthesis. By applying a neutral recoding algorithm, Genome Calligrapher optimizes GC content and removes obstructive DNA features known to interfere with the synthesis of double-stranded DNA and the higher

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order assembly into large DNA
constructs.

Genome Calligrapher: A Web Tool for Refactoring Bacterial ...

A general algorithm describing our
genome refactoring process is given in
Supplementary Figure S1. Briefly, we
began design of the T7.1 genome by

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reannotating the genome of wild-type T7. The wild-type T7 genome is a 39 937 base pair (bp) linear double-stranded DNA molecule (Dunn and Studier, 1983). We annotated the genome by specifying the ...

**Refactoring bacteriophage T7 -
PubMed Central (PMC)**

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Nature uses 64 codons to encode the synthesis of proteins from the genome, and chooses 1 sense codon—out of up to 6 synonyms—to encode each amino acid. Synonymous codon choice has diverse and ...

Total synthesis of Escherichia coli with a recoded genome ...

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Overview of My Lectures • Genome Sequencing (Lecture 1) - Sanger Sequencing • Whole Genome Sequencing • Sequencing Theory • Genome Assembly ... In Sanger sequencing, Crick is the template and Watson's synthesis starts at the primer's 3'OH Watson 5' .. T A G C G T C A G C T .. 3'

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Genetics 211 - 2016 Lecture 1 - Stanford University

Since the first genome of the bacterial pathogen *Haemophilus influenzae* Rd was revealed by shotgun sequencing in 1995 (), the number of deposited genome sequences has grown exponentially, with >700 in the year

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2012 alone (1). This rapid expansion of genomic information has benefited from increased throughput, improved fidelity, and lower costs associated with next-generation sequencing ...

Direct cloning and refactoring of a silent lipopeptide ...

Chapters focus on the overarching goals

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of synthetic biology and their alignment with the motivations and achievements in genome engineering; the engineering frameworks of refactoring, including genome synthesis, standardization of biological parts, and abstraction; a detailed description of the bacteriophages that have been refactored up to this point; and the

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methods of refactoring and contexts for that work drawn from the bacteriophage M13.

Genome refactoring (eBook, 2009) [WorldCat.org]

Tools for Genome Engineering and Synthetic Biology
Bacteriophage as Templates for

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Refactoring Methods/Teaching Protocols
for M13 Reengineering Writing and
Speaking as Biological
Engineers Summary and Future
Directions Appendix A Appendix
B Appendix C: Series Title: Synthesis
lectures on synthetic biology, no. 1.
Responsibility: Natalie Kuldell and ...

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**Genome refactoring (Book, 2009)
[WorldCat.org]**

Chemical synthesis of Mycoplasma genitalium genome (2008). The J Craig Venter Institute has pursued complete synthesis and assembly of a whole bacterial (M. genitalium) genome from chemically synthesized oligonucleotides. They reported

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successful synthesis and assembly of a 582,970 bp *M. genitalium* genome, a culmination of about 10 years of work [1].

Rewriting the blueprint of life by synthetic genomics and ...

Putting Synthesis into Biology – A Viral View of Genetic Engineering Through de novo Gene and Genome synthesis

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Steffen Mueller , J. Robert Coleman , and
Eckard Wimmer Department of
Molecular Genetics and Microbiology,
Stony Brook University, Stony Brook,
New York, United States of America

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Refactoring Bacterial Genome
Sequences for de Novo DNA Synthesis
Article (PDF Available) in ACS Synthetic
Biology 4(8) · June 2015 with 125 Reads

**(PDF) Genome Calligrapher: A Web
Tool for Refactoring ...**

Class time could be reduced to two
lectures: a didactic lecture on the

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principles of genome synthesis and a second computer-based class that would allow students to design their own synthetic gene and break down the sequence into constituent oligonucleotides using GeneDesign software.

Teaching Synthetic Biology,

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Bioinformatics and Engineering ...

Genome Refactoring by Neal Lerner,
Natalie Kuldell. Get Genome Refactoring
now with O'Reilly online learning.

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training, plus books, videos, and digital
content from 200+ publishers. Start your
free trial. NU TS AN D B OL TS OF M
OLEC ULA R B IO LO GY 61.

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SECTION 2: MOLECULAR BIOLOGY - Genome Refactoring [Book]

Artificial gene synthesis or gene synthesis, refers to a group of methods that are used in synthetic biology to construct and assemble genes from nucleotides de novo. Unlike DNA synthesis in living cells, artificial gene

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synthesis does not require template DNA, allowing virtually any DNA sequence to be synthesized in the laboratory. It comprises two main steps, the first of which is solid-phase ...

Artificial gene synthesis - Wikipedia
ABSTRACT Project Summary Synthetic biology is the design and construction of

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new biological entities such as enzymes, genetic circuits, and cells or the redesign of existing biological systems. Synthetic biology builds on advances in molecular, cell, and systems biology and seeks to transform biology in the same way that synthesis transformed chemistry and integrated circuit design transformed ...

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