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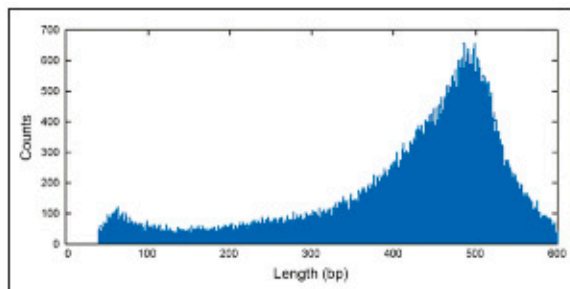


Figure 1: Example Read Length Distribution of 100,000 reads from *E. coli* K-12 (genome size approximately 4.5 Mb), from a single GS Junior System run.

Bring the power, performance, speed, and long reads of the GS FLX Titanium chemistry to your benchtop with the newest addition to the Roche genome sequencing portfolio –

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System	Genome Sequencer FLX System	GS Junior Sequencing System
Throughput	400-600 million high-quality, filter-passed bases per run [†]	>35 million high-quality, filter-passed bases per run [†]
Run Time	10 hours sequencing time, 2 hours data processing [†]	10 hours sequencing time, 2 hours data processing [†]
Read Length	Modal length = 500 bases, Average length = 400 bases [†] Coming later this year: read lengths of up to 1,000 bases	Modal length = 500 bases, Average length = 400 bases [†]
Accuracy	Q20 read length at 400 bases (99% accuracy at 400 bases)	Q20 read length at 400 bases (99% accuracy at 400 bases)
Reads per Run	>1 million reads	100,000 reads (on average)
Software Included	GS <i>De Novo</i> Assembler, GS Reference Mapper, GS Amplicon Variant Analyzer	GS <i>De Novo</i> Assembler, GS Reference Mapper, GS Amplicon Variant Analyzer
Computing Requirements	Cluster recommended (Roche GS FLX Titanium Cluster available)	Linux-based OS on HP desktop computer, included
Sample Input Requirements	Purified gDNA, amplicons, cDNA, or RNA, depending on the application	Purified gDNA, amplicons, cDNA, or RNA, depending on the application
Physical Dimensions	Upper assembly: 74.3 cm W x 69.8 cm D x 36.1 cm H including monitor 82.5 cm H Permanently affixed lower assembly: 75.2 cm W x 90.8 cm D x 92.7 cm H Weight: 532 lb.	Benchtop sequencer: 40 cm W x 60 cm D x 40 cm H Weight: 55 lb.

[†] Typical results using GS FLX Titanium Series chemistry. Average read length and number of reads depend on specific sample and genome characteristics.

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Summary data from Nextera libraries sequenced using GS FLX Titanium chemistry.

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Plasmid 1	10,657	99.93	19.7 Kb	151.38	93.74
Plasmid 2	6,291	99.89	6.3 Kb	284.17	86.73
Soy (W82)	572,162	99.90	973 Mb	0.16	87.64

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Generation and Interpretation of Morphogen Gradients

A COLD SPRING HARBOR PERSPECTIVES IN BIOLOGY COLLECTION

Generation and Interpretation of Morphogen Gradients



Edited by James Briscoe, *MRC National Institute for Medical Research*, Peter A. Lawrence, *University of Cambridge*, and MRC Laboratory of Molecular Biology, and Jean-Paul Vincent, *MRC National Institute for Medical Research*

Signaling by diffusible morphogens, such as Hedgehog, Wnt, TGF- β , and various growth factors, is essential during embryogenesis. The establishment of concentration gradients of these morphogens is vital for developmental patterning, ensuring that distinct differentiated cell types appear in the right place and at the right time in forming tissues.

Written and edited by experts in the field, this volume explores how morphogen gradients are generated and interpreted during development. The contributors examine the regulation of morphogen synthesis, trafficking, and diffusion, as well as the complex webs of signaling mechanisms and transcriptional responses in recipient cells — whose fates are dictated by these morphogens. Including discussion of the roles of morphogen gradients in various tissues in organisms from

yeast to humans, the volume is a vital reference for developmental biologists and cell biologists wishing to know how cell fate is determined during embryogenesis.

2010, 308 pp., illus., index

Hardcover \$135

ISBN 978-087969881-2

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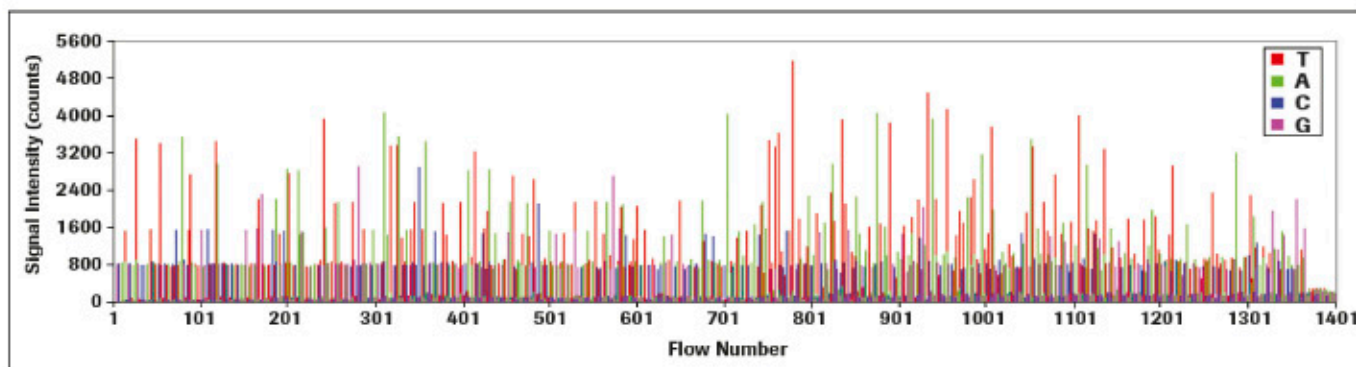




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DNA Sequencing Flowgram: Each bar within the flowgram represents a discrete nucleotide (A, T, C, or G) and the height of the bar corresponds to the number of nucleotides detected. The flowgram above represents a 1008-base-pair sequencing read from *E. coli* K-12.

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Early Registration Deadline – Nov 30, 2010

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June 2011

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Please send your C.V. electronically to:

Scott Devine, Ph.D.

Institute for Genome Sciences

University of Maryland, School of Medicine

Baltimore, MD 21201

sdevine@som.umaryland.edu

AA/EOE/ADA

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4–9 July

Next Generation Sequencing

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21–27 July

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23–27 August

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12–18 December

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Bangkok, Thailand

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Peter Arndt
Max Planck Institute for
Molecular Genetics, DE

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University of Lyon, FR

Evan Eichler
University of Washington, US

Adam Eyre-Walker
University of Sussex, UK

Kateryna Makova
Penn State University, US

Gil McVean
University of Oxford, UK

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CHAIR | Leena Peltonen
Wellcome Trust Sanger Institute, UK

Mark Daly
Harvard Medical School, US

Helen Hobbs
Howard Hughes Medical Institute
at UT Southwestern, US

Rick Lifton
Yale School of Medicine, US

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Broad Institute of MIT and Harvard, US

Steven McCarroll
Harvard Medical School, US

Mark McCarthy
Oxford Centre for Diabetes,
Endocrinology & Metabolism, UK

Mike Stratton
Wellcome Trust Sanger Institute, UK

John Trowsdale
Cambridge Institute for Medical Research, UK

KEYNOTE SPEAKERS

Svante Pääbo
Max Planck Institute for
Evolutionary Anthropology, DE

Kári Stefánsson
deCODE genetics, IS

SESSION | Functional Variation

CHAIR | Ewan Birney
European Bioinformatics Institute, UK

Stephan Beck
University College London, UK

Søren Brunak
University of Denmark, DK

Vivian Cheung
University of Pennsylvania, US

Manolis Dermitzakis
University of Geneva Medical School, CH

Jorge Ferrer
Institut d'Investigacions Biomèdiques
August Pi i Sunyer, ES

SESSION | Population Genetics

CHAIR | Gonçalo Abecasis
University of Michigan, US

Carlos D. Bustamante
Cornell University, US

Richard Durbin
Wellcome Trust Sanger Institute, UK

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European Bioinformatics Institute, UK

Noah Rosenberg
University of Michigan, US



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- Denis Noble
- Steve Kay
- Luis Serrano
- Thomas Pollard

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15 January 2010	Call for Workshops Deadline
3 May 2010	Call for Papers Deadline
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