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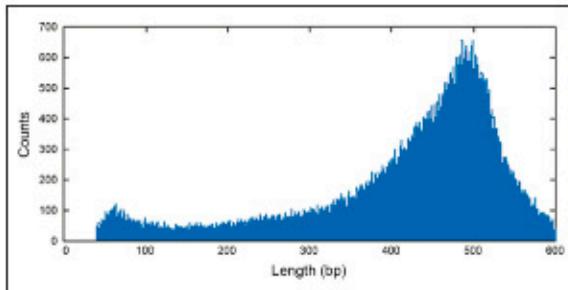


Figure 1: Example Read Length Distribution of 100,000 reads from *E. coli* K-12 (genome size approximately 4.5 Mb), from a single GS Junior System run.

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 –

The GS Junior Sequencing System.

- Make the most of your sequencing projects with our 400- to 500-base-pair read lengths (Figure 1).
- Benefit from established technology that has enabled hundreds of peer-reviewed publications.
- Rapidly process data using the system's comprehensive suite of dedicated analysis software.

A composite image featuring a 454 sequencer on the left, a computer monitor displaying sequencing software in the center, and a 3D visualization of DNA molecules and sequencing data on the right. The visualization shows a DNA helix with a small virus-like particle on a blue surface, and a bar chart with colored bars representing sequencing data.

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454
SEQUENCING



Choose the 454 Sequencing solution that fits your application needs



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 [†] <i>Coming later this year: read lengths of up to 1,000 bases</i>	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.

Sample	Total Reads	% Total Nucleotides Identified	Reference Sequence Length	X Coverage	% Mapped Reads
<i>E. coli</i>	472,007	99.95	4.64 Mb	33.21	88.74
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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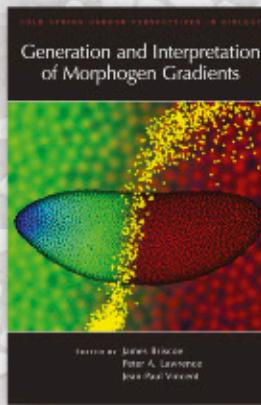
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Generation and Interpretation of Morphogen Gradients

A COLD SPRING HARBOR PERSPECTIVES IN BIOLOGY COLLECTION



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, Wingless, 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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Morphogen Gradient Formation
Ortrud Wartlick, Anna Kicheva, and Marcos González-Gaitán

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Hans Meinhardt

Robust Generation and Decoding of Morphogen Gradients
Naama Barkai and Ben-Zion Shilo

The Measure of Success: Constraints, Objectives, and Tradeoffs in Morphogen-mediated Patterning
Arthur D. Lander, Wing-Cheong Lo, Qing Nie, and Frederic Y.M. Wan

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Dong Yan and Xinhua Lin

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Jean-Denis Bénazet and Rolf Zeller

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Stephen N. Sansom and Frederick J. Livesey

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Gregory T. Reeves and Angelike Stathopoulos

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Robert A. Arkowitz

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Robert R. Kay and Christopher R.L. Thompson

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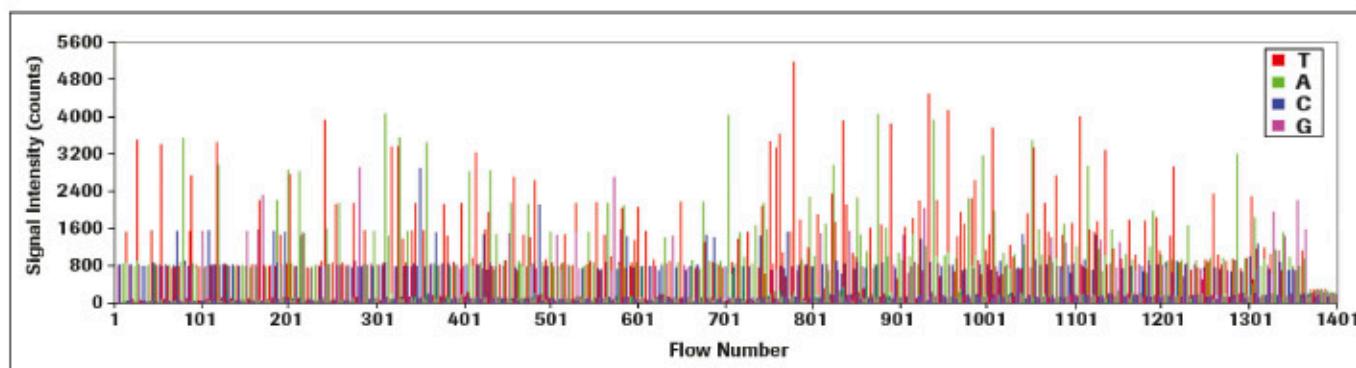




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Genome Sequencer FLX System

Less
~~Some assembly required~~



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.

Make assembly easier by using the **Genome Sequencer FLX System** – featuring the longest read length available in next-generation sequencing (up to 1,000 bp) and a powerful suite of analysis tools.

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Late-Breaking Abstract Deadline – Nov 2, 2010

Early Registration Deadline – Nov 30, 2010

www.keystonesymposia.org/11B4

Changing Landscape of the Cancer Genome

June 2011

Scientific Organizers: Lynda Chin, Christoph Lengauer and Michael Stratton

Deadlines, exact dates and venue to be announced soon. Please visit

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The newly created Institute for Genome Sciences (IGS) at the University of Maryland, School of Medicine is in a period of rapid expansion. The Institute is led by Claire M. Fraser-Liggett, Ph.D., one of the world's preeminent genome scientists, and encompasses an inter-disciplinary, multi-departmental team of collaborative investigators with a broad research program related to the genomics of infectious disease agents, human microbial metagenomics, functional genomics and bioinformatics. The impact of the members of IGS on the field of genomics has been substantial, with more than 500 publications during the past 15 years which have been cited more than 30,000 times.

The Institute is currently seeking a postdoctoral fellow with experience in bioinformatics to study human genetic variation. Our main goal is to study "alternative" (non-SNP) forms of genetic variation such as small insertions and deletions (INDELs) and transposon insertions in diverse humans (Mills et al. 2006, *Genome Res.* 16, 1182-1190; Mills et al. 2007, *Trends Genet.* 23, 183-91, 2007; Bennett et al. 2008, *Genome Res.* 18, 1875-83). A future goal is to develop innovative approaches to study the impact of INDELs and transposon insertions on human traits and diseases, including cancers. The candidate should have advanced informatics skills (ideally, a working knowledge of Java, PERL, Python, MySQL, and web development) and a Ph.D. in a relevant field (Genetics, Biochemistry or Bioinformatics). Experience with data modeling is desirable. Molecular Biology or Biochemistry wet lab skills, a plus. The candidate must be eligible to apply for an NIH postdoctoral fellowship.

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

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Postdoctoral Positions at Cold Spring Harbor Laboratory

Cold Spring Harbor Laboratory is a world-renowned research and educational institution recognized internationally for its excellence in ground-breaking research and educational activities. We invite highly motivated individuals to visit our website at www.cshl.edu to review and apply for current postdoctoral opportunities in the following areas.

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Genomics and Bioinformatics: The CSHL Genomics program uses state-of-the-art technologies including high-throughput sequencing, copy number variation analysis and transcriptome analysis. Efforts are ongoing to understand genomic variation associated with several human diseases as well as elucidating and characterizing new functional outputs of the genome.

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18–27 April

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9–15 May

Functional Genomics and Systems Biology

16–25 June

Molecular Neurology and Neuropathology

19–26 June

Practical Aspects of Small Molecule Drug Discovery

4–9 July

Next Generation Sequencing

18–24 July

Human Genome Analysis: Genetic Analysis of Multifactorial Diseases

21–27 July

Design and Analysis of Genetic-based Association Studies

23–27 August

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Working with the Human Genome Sequence

10–12 May

Proteomics Bioinformatics

12–18 December

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28 February–6 March

Genomic Epidemiology of Malaria

Bangkok, Thailand

29 August–4 September

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10–14 February

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1–3 March

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9–13 June

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27–30 July

Systems Biology: Networks

11–15 August

Wellcome Trust School of Human Genomics

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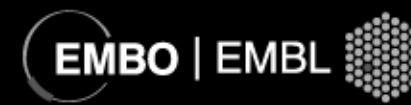
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Molecular Medicine, UK

Peter Arndt
Max Planck Institute for
Molecular Genetics, DE

Laurent Duret
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

SESSION | Disease Genetics

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

Kerstin Lindblad-Toh
Uppsala University, SE
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
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Paul Flicek
European Bioinformatics Institute, UK

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- Computational Methods and Tools
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- Systems Biology in Health and Disease
- Parameterising Proteomics
- Biological Rhythms
- Combinational Multi-scale Systems Responses in Biology and Medicine
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- David Rand
- 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
2 June 2010	Early Registration Deadline
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