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SOLiD[™] 4

SYSTEM SEQUENCING

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Can higher accuracy reduce the coverage required to detect SNPs?

Can true paired-end protocols reduce the noise?

Can you reduce the cost and time of validation?

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Next-generation sequencing just leaped to the next level in accuracy. The SOLiD[™] 4 System leverages advanced informatics and optimized reagents to deliver the highest accuracy of any NGS system. With throughputs of 100 GB per run and workflow automation, the SOLiD[™] 4 System accelerates your large-scale genomic analysis to an unprecedented

pace. Plus, new paired-end library options enable detection of novel splice variation and fusion transcripts with less input DNA. Using the SOLiD[™] 4 System, your lab will have the ability to detect more variation and spend less time and money doing it. Take a look at the new SOLiD[™] 4 System. See what's never been seen before.

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I enable scalability

I enable next generation sequencing

With the number of new sequencing instruments entering the market, next generation sequencing facilities must be prepared to expand their operations rapidly. Labs have to deal with higher throughput and multiplexed experiments. Sequencing facilities need to ensure experiment traceability, while following best practices. Lab managers need to be able to add and change LIMS workflows quickly without software programming delays. Bioinformaticians need an extendable platform with easy access to data for analysis. A best-in-class LIMS can help you operate a world-class facility.

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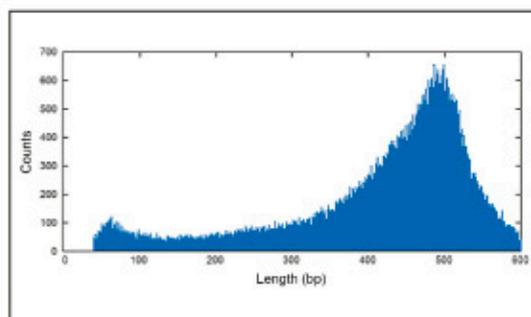


Figure 1: Example Read Length Distribution of 100,000 reads from *E. coli* K-12 (genome size approximately 4.5 Mb), from a single GS Junior System run.

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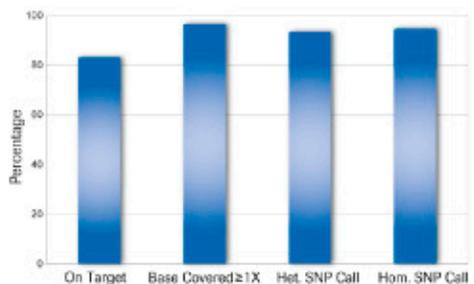




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Tenure/Tenure-Track Investigator Position in Systems Immunology and Infectious Disease Modeling

The National Institute of Allergy and Infectious Diseases (NIAID), Division of Intramural Research (DIR), is seeking an outstanding individual for its new Program in Systems Immunology and Infectious Disease Modeling (PSIIM).

Modern technology allows the deep analysis of biological systems at multiple levels. The challenge is not only to collect the large amounts of data new technologies can generate at different scales of biological organization, but also to organize it in a manner that enhances our understanding of how such systems operate. Achieving this goal requires an interdisciplinary effort, and for this reason PSIIM is organized as an integrated team of scientists and support staff structured in groups. These groups will have access to the latest technology for gene expression profiling, next generation sequencing, high content screening of RNAi libraries, imaging, and genomic and proteomic analysis, as well as a substantial computer infrastructure, together with modern conventional laboratory facilities for cell and animal experimentation. They will also have access to BSL-3 facilities for working with infectious agents of high priority for human health and biodefense.

Although PSIIM has been established within NIAID and has an immune/infectious disease focus, it is also expected to play a major role in fostering the growth of systems biology efforts throughout NIH. PSIIM staff will interact extensively with investigators in other components of the NIH intramural research program, including but not limited to the National Center for Biotechnology Information, NIH Chemical Genomics Center, Center for Information Technology, and Center for Human Immunology, all of which have activities emphasizing systems and informatic approaches to biomedicine.

Current groups in PSIIM include Immunology, Computational Biology—Modeling and Simulation, Molecular/Cell Biology—High-throughput Screening, Proteomics, and Systems Genomics. PSIIM is now recruiting for a tenure-track or tenure level team leader appointment in the following area:

Transcriptional Networks and Control of Differentiation: The incumbent will be responsible for applying and, as required,

developing novel experimental and computational methods for the systems-wide analysis of gene regulatory pathways and networks, with a specific emphasis on the transcription factor circuits that define cell fate and that translate extracellular signaling into cellular responses. As part of this effort, the incumbent will engage in quantitative measurements of transcription factor and gene expression, analysis of protein-DNA interactions, and assessment of the contributions of epigenetic modifications/chromatin remodeling events to regulation of the behavior of such transcriptional networks. PSIIM is especially interested in recruiting an individual with a strong interest in the application of these methods to the integration of information on cell signaling events, developmental state, and gene regulatory circuits into comprehensive models of the control of cellular differentiation, for example, of effector CD4+ T cells or iPS.

This position and its research activities are fully funded by the intramural research program of NIAID. The team leader is expected to build a working group consisting of postdoctoral fellows, students, technicians, and staff scientists. The team leader will work with the program director and other PSIIM faculty to help set the goals for PSIIM and to determine how best to reach these goals as an integrated group. To ensure appropriate career trajectories for those joining the

PSIIM team effort, NIH has modified its tenure policies to take specific account of contributions made in such a team science setting. Members of PSIIM will be expected to play a major role in development of an integrated computational systems approach to biology, the application of these methods to questions of substantial biomedical importance, and the dissemination of the tools and techniques developed in PSIIM across the NIH intramural program and in the extramural academic and industrial spheres. Applicants should be seeking a challenge in which creativity, technical expertise, and a strong desire to achieve in a team setting will be critical for success.

Interested candidates may contact Ronald Germain, M.D., Ph.D., Program Director, PSIIM, DIR, NIAID, at 301-496-1904 or rgermain@niaid.nih.gov for additional information about this position.

Additional information about PSIIM is available online at <http://www.niaid.nih.gov/labsandresources/labs/aboutlabs/psiim/Pages/default.aspx>.

Applicants must have a Ph.D., M.D., or equivalent degree in a relevant field with extensive postdoctoral experience, as well as a strong publication record demonstrating potential for creative research.

To apply: Submit your curriculum vitae, bibliography, and a detailed statement of how your expertise can contribute to the success of the PSIIM program to Hanh Ngo at PSIIM4Search@niaid.nih.gov. In addition, three letters of reference must be sent directly from the referee to Robert Hohman, Ph.D., Chair, NIAID Search Committee, c/o Hanh Ngo at PSIIM4Search@niaid.nih.gov or 10 Center Drive, MSC 1356, Building 10, Room 4A22, Bethesda, MD 20892-1356. E-mail is preferred. Applications will be reviewed starting on **October 3, 2010** and will be accepted until the position is filled.

Further information regarding the DIR laboratories is available at www.niaid.nih.gov/about/organization/dir/, and information on working at NIAID is available on our Web site at www.niaid.nih.gov/careers/psgr. For more information about the NIAID systems biology program, visit www.nih.gov/catalyst/2006/06.09.01/page1.html.



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- Luis Serrano
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| 5 January 2010 | Call for Papers Open |
| 15 January 2010 | Call for Tutorials Deadline |
| 15 January 2010 | Call for Workshops Deadline |
| 3 May 2010 | Call for Papers Deadline |
| 2 June 2010 | Early Registration Deadline |
| 4 June 2010 | Notification of Acceptance |
| 1 October 2010 | Pre-Registration Deadline |
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Keynote speakers: Richard Durbin, Minoru Kanehisa, Gary Stormo
- Emerging Infectious Diseases**
 October 18-22, Abstracts due July 30
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Keynote speakers: Louise Chow, Zihe Rao
- From Plant Biology to Crop Biotechnology**
 October 25-29, Abstracts due August 29
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Keynote speakers: Cathie Martin, Marjori Matzke
- RNA Biology**
 November 1-5, Abstracts due August 13
Organizers: Xumei Chen, Soo-Chen Cheng, Masatoshi Hagiwara, Adrian Krainer
Keynote speakers: Thomas Steitz
- Frontiers of Immunology in Health and Diseases**
 November 7-10, Abstract due Augusts 20
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Keynote speakers: Xuetao Cao, Richard Flavell



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