



# Cold Spring Harbor Laboratory

## MEETINGS & COURSES PROGRAM

### Programming for Biology

October 15<sup>th</sup> – 30<sup>th</sup>

Hershey East & West

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#### Program Faculty

##### INSTRUCTORS:

**Simon Prochnik**

Intrexon, Inc, San Francisco, CA

**Sofia Robb**

Stowers Institute for Medical Research, Kansas City, MO

##### ASSISTANTS:

**Jessen Bredeson**

University of California, Berkeley Berkeley CA

**Kristen Gotting**

The University of Wisconsin Madison Madison WI

**Lukas Kuderna**

Institut de Biologia Evolutiva Barcelona, SPAIN

**Joseph Orkin**

University of Calgary Calgary, CANADA

**Shasta Webb**

University of Calgary Calgary, CANADA

##### INVITED SPEAKERS:

**Scott Cain**

Ontario Institute for Cancer Research San Diego CA

**Michael Campbell**

New Affiliation needed - NY

**Brandi Cantarel**

UTSW Medical Center Dallas TX

**Alexander Dobin**

Cold Spring Harbor Laboratory, Cold Spring Harbor NY

**Brian Haas**

Broad Institute Cambridge MA

**Tomas Marques-Bonet**

Universitat Pompeu Fabra Barcelona, SPAIN

**Paul Thomas**

University of Southern California Los Angeles CA

**Deborah Triant**

University of Virginia Charlottesville VA

**Nicole Vasilevsky**

Oregon Health & Science University, Portland, OR



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#### **PARTICIPANTS:**

<b>Cristiane Alves,</b>	Cold Spring Harbor Laboratory, Cold Spring Harbor, NY
<b>Ragini Bhargava,</b>	City of Hope Duarte CA
<b>Julie Chaves,</b>	Oak Ridge National Laboratory, Oak Ridge, TN
<b>Ashley Chin,</b>	Institut de Recherches Cliniques de Montréal, Montreal, CANADA
<b>Miriam Feuerman,</b>	SUNY Downstate Medical Center, Brooklyn, NY
<b>Jannine Forst,</b>	University of California - Santa Cruz, Santa Cruz CA
<b>Scott Friedland,</b>	University of Rochester School of Medicine and Den Rochester, NY
<b>Maxim Gerashchenko,</b>	Harvard Medical School, Boston, MA
<b>Bushra Gorski,</b>	University of Utah, salt lake city, UT
<b>Eric Hill,</b>	Stowers Institute for Medical Research, Kansas City, MO
<b>Christina Hodson,</b>	University of Edinburgh, Edinburgh, UNITED KINGDOM
<b>Francesca Jean,</b>	University of Alberta, Edmonton, CANADA
<b>Mustafa Jibrin,</b>	University of Florida, Gainesville, FL
<b>Stephanie Lam,</b>	Massachusetts General Hospital, Boston, MA
<b>Magda Lewandowska,</b>	Hebrew University of Jerusalem, Jerusalem, ISRAEL
<b>Elizabeth Miller,</b>	King Abdullah University of Science and Technology, Thuwal, SAUDI ARABIA
<b>Ahmed Moustafa,</b>	ARC, Children's Hospital of Philadelphia, Philadelphia, PA
<b>Stella Paffenholz,</b>	Memorial Sloan Kettering Cancer Center, New York, NY
<b>Caitlin Spaulding,</b>	Harvard School of Public Health, Boston, MA
<b>August Thies,</b>	Donald Danforth Plant Science Center, St. Louis, MO
<b>Matthew Waas,</b>	Medical College of Wisconsin, Wauwatosa, WI
<b>Mandy Wong,</b>	Cold Spring Harbor Laboratory, Cold Spring Harbor NY

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National Human Genome  
Research Institute



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## **Lecture Program**

**Sunday , October 21**

**9:00 – 10:30 AM**

**Simon Prochnik, Joint Genome Institute**

“Python session 10: Classes and BioPython”

**2:00 – 3:30 PM**

**Michael Campbell, 10x Genomics, Melville , NY**

“Oh the formats you'll see: From BAM to VCF and in between”

**7:00 – 8:30 PM**

**Tomas Marques-Bonet, Universitat Pompeu Fabra, Barcelona , SPAIN**

“Genome Variation”

**Monday , October 22**

**9:00 – 10:30 AM**

**Brandi Cantarel, UT Southwestern Medical Center, TX**

“Sequence Homology”

**5:00 – 6:30 PM**

**Deborah Triant, University of Virginia**

“Genome Assembly”

**Tuesday , October 23**

**2:00 – 3:30 PM**

**Alexander Dobin, Cold Spring Harbor Laboratory , NY**

“Aligners ”

**Wednesday , October 24**

**9:00 – 10:30 AM**

**K Brian Haas , Broad Institute**

“RNA-seq transcriptome assembly and analysis”

**Thursday , October 25**

**Scott Cain, Ontario Institute for Cancer Research**

“Bioinformatics Tools Overview ”

**Friday , October 26**

**9:00 – 10:30 AM**

**Nicole Vasilevsky , Oregon Health & Science University, Portland, OR**

“Introduction to Ontologies”

**2:00 – 3:30 PM**

**Paul Thomas, University of Southern California, CA**

“Protein function Annotation”