

**Third Global Invertebrate Genomics Alliance Research  
Conference and Workshop (GIGA III)**

# **PROGRAM**



**October 19-21, 2018**

**Curaçao**

**GIGA III, Curaçao Hilton  
Session Overview**

**October 19<sup>th</sup>, 2018, Willemstad Room**

8:30- 8:45 AM	<b>Welcome to GIGA III: Jose V. Lopez</b>
8:45 - 11:00 AM	<b>Existing and Emerging Genomic Technologies</b>
11:00 AM - 4:00 PM	<b>Phylogenomics I &amp; II</b>
4:00– 6:00 PM	<b>Conservation Genomics I</b>
6:00 - 7:00 PM	<b>Keynote Speaker: Mónica Medina</b>

**October 20<sup>th</sup>, 2018, Concurrent Sessions**

	<b>Blenchi Room</b>	<b>Willemstad Room</b>
8:30 -11:00 AM	<b>Command Line Workshop</b>	<b>Conservation Genomics II</b>
11:00 - 12:30 PM	<b>Annotation/Assembly</b>	<b>Contributed Talks</b>
1:30 – 4:00 PM	<b>Annotation/Assembly cont.</b>	<b>Contributed Talks</b>
4:00 – 6:00 PM	<b>Annotation/Assembly cont.</b>	<b>Contributed Talks</b>
6:00- 7:00 PM		<b>Keynote: Federico Brown</b>
	<b>CARMABI Lab</b>	
7:30 – 9:00 PM	<b>POSTER SESSION</b>	

**October 21<sup>st</sup>, 2018, Concurrent Sessions**

	<b>Blenchi Room</b>	<b>Willemstad Room</b>
8:30 -11:00 AM	<b>Annotation/Assembly cont.</b>	<b>Contributed Talks</b>
11:00 - 12:30 PM	<b>QIIME 2 Workshop</b>	<b>Contributed Talks</b>
1:30 – 4:00 PM	<b>QIIME 2 Workshop cont.</b>	<b>Contributed Talks</b>
4:00 – 5:00 PM	<b>QIIME 2 Workshop cont.</b>	<b>Contributed Talks</b>
5:00- 6:00 PM		<b>Keynote: Johanna Cannon</b>
6:00- 7:00 PM		<b>GIGA Society Meeting</b>

**GIGA III, Curaçao Hilton  
Detailed Schedule**

**October 18<sup>th</sup>, 2018, Evening**

5:00 PM to 8:00 PM	<b>Registration</b> , Curaçao Hilton Lobby
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**October 19<sup>th</sup>, 2018, Early Morning**

7:00 AM to 8:30 AM	<b>Registration</b> , Curaçao Hilton Lobby
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**October 19<sup>th</sup>, 2018, Willemstad Room, Morning**

8:30 AM to 8:45 AM	Welcome to GIGA III: Jose V. Lopez
	<b>Existing and Emerging Genomic Technologies</b> Organizer: Michael Eitel
8:45 AM to 9:00 AM	Introduction: Michael Eitel*
9:00 AM to 9:30 AM	PacBio: Long Reads for High-Accuracy Animal Genomics Greg Concepcion*
9:30 AM to 10:00 AM	Nanopore Sequencing Michael Eitel*
10:00 AM to 10:15 AM	Q & A on Emerging Technologies
10:15 AM to 10:30 AM	European Training Network: IGNITE Michael Eitel*
10:30 AM to 11:00 AM	<b>Coffee Break</b>
	<b>Phylogenomics I</b> Organizers: Gonzalo Giribet and Gert Wörheide
11:00 AM to 11:15 AM	Development of Open-Source Tools for Comparative Genomics Analyses: Discrimination of Technical vs Biological Variation in Genes and Genomes of Invertebrate Higher Taxa from NCBI GenBank Jeffrey Robinson* & Ben Busby
11:15 AM to 11:30 AM	Improvements in Phylogenetic Models for Estimating Deep Evolutionary Divergences Andrew J. Roger*, Huaichun Wang, Edward Susko & Bui Q. Minh
11:30 AM to 11:45 AM	Phylotranscriptomics Sheds New Light on the Sea Urchin Tree of Life

	Nicolás Mongiardino Koch*, Simon E. Coppard, Rich Mooi, & Greg Rouse
11:45 AM to 12:00 PM	Seeing the Light: Evolution of Photosymbiosis in Marine Cockles Jingchun Li*, Sarah Lemer, Gonzalo Giribet, Lisa Kirkendale, Rüdiger Bieler, & Colleen Cavanaugh
12:00 PM to 12:30 PM	Discussion
12:30 PM to 1:30 PM	<b>Lunch</b>

### October 19<sup>th</sup>, 2018, Willemstad Room, Afternoon

	<b>Phylogenomics II</b> Organizers: Gonzalo Giribet and Gert Wörheide
1:30 PM to 1:45 PM	A Phylogenomic Framework for Decapoda Joanna M. Wolfe*, Jesse W. Breinholt, Keith A. Crandall & Heather D. Bracken-Grissom
1:45 PM to 2:00 PM	From the Shallows to the Abyss: Utilizing Phylotranscriptomics to Characterize Crustacean Visual Opsin Diversity Danielle M. DeLeo* & Heather D. Bracken-Grissom
2:00 PM to 2:15 PM	Copepod Phylogenomics: Orthology Inference for Target-capture Marker Development James P. Bernot* & Keith A. Crandall
2:15 PM to 2:30 PM	Amplification of VWD Domains Preceded the Origin of Cypridinid Luciferases and Bioluminescence Todd H. Oakley*, Nicholai M. Hensley, Emily A. Ellis, Gretchen A. Gerrish & Elizabeth Torres
2:30 PM to 2:45 PM	Confessions of a Ph.D. Candidate: Lessons Learned From Phylogenomics on Heterobranch Gastropods Vanessa L. Knutson* & Gonzalo Giribet
2:45 PM to 3:00 PM	Resolving Deep Nodes in the Gastropod Phylogeny Tauana Cunha* & Gonzalo Giribet
3:00 PM to 3:30 PM	<b>Discussion</b>
3:30 PM to 4:00 PM	<b>Coffee Break</b>

**October 19<sup>th</sup>, 2018, Willemstad Room, Afternoon**

	<p><b>Conservation Genomics I</b></p> <p>Organizers: Iliana Baums and Sheila Kitchen</p>
4:00 PM to 4:15 PM	<p>The Innovative Potential of Genomic Tools for Conservation in the Face of Global Change</p> <p>Iliana B. Baums*</p>
4:15 PM to 4:30 PM	<p>Whole Genome Resequencing Reveals Genomic Basis of Local Adaptation to Extreme Environments in the Ascidian <i>Phallusia nigra</i>.</p> <p>Edward G Smith* &amp; John A. Burt</p>
4:30 PM to 4:45 PM	<p>Evaluating Adaptive Potential and Identifying Markers of Thermal Tolerance in a Great Barrier Reef Coral <i>Platygyra daedalea</i></p> <p>Holland Elder*, Veronique Mocellin, Jose Montalvo-Proano, Line Bay, &amp; Eli Meyer</p>
4:45 PM to 5:00 PM	<p>Population Dynamics and Outlier Analysis of the Sea Urchin, <i>Echinometra</i> sp. EZ</p> <p>Remi N. Ketchum*, Edward G. Smith, Melissa B. DeBiasse, Joseph F. Ryan, Grace O. Vaughan, Dain McParland, John A. Burt, &amp; Adam M. Reitzel</p>
5:00 PM to 5:15 PM	<p><i>Pocillopora damicornis</i> Immune Gene Expression Patterns in Response to Antibiotics Treatments, Heat Stress and Immune Stimulation with Bacterial Lipopolysaccharide</p> <p>Michael T. Connelly*, Crystal McRae, Pi-Jen Liu, &amp; Nikki Traylor-Knowles</p>
5:15 PM to 5:30 PM	<p>The Genome of the Quagga Mussel and the Evolution of Freshwater Embryonic Osmoregulation</p> <p>Andrew D. Calcino*, Oleg Simakov, André Luiz de Oliveira, Thomas Schwaha, Elisabeth Zieger &amp; Andreas Wanninger</p>
5:30 PM to 6:00 PM	<p><b>Discussion</b></p>
6:00 PM to 7:00 PM	<p><b>Keynote:</b> Comparative Metatranscriptomes Reveal the Adaptive Potential of Coral Holobionts Under Thermal Stress</p> <p>Viridiana Avila, Bishoy Kamel, Michael De Salvo, Roberto Iglesias-Prieto &amp; Mónica Medina*</p>

**October 19<sup>th</sup>, 2018, Evening**

	<p><b>Free Time</b></p>
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**October 20<sup>th</sup>, 2018, Blenchi Room, Concurrent Session 1, Morning**

	<b>Command Line Introduction Workshop</b> Organizers (alphabetically): Joseph Sevigny, Devin Thomas, & Kelley Thomas
8:30 AM to 10:30 AM	Command line introduction
10:30 AM to 11:00 AM	<b>Coffee Break</b>
	<b>Assembly/Annotation Workshop</b> Organizers (alphabetically): C. Titus Brown, Jean-François Flot, Lisa Johnson, Bishoy Kamel, Adelaide Rhodes, Joseph Sevigny, Devin Thomas
11:00 AM to 12:30 PM	Assembly/Annotation workshop
12:30 PM to 1:30 PM	<b>Lunch</b>

**October 20<sup>th</sup>, 2018, Willemstad Room, Concurrent Session 2, Morning**

	<b>Conservation Genomics II</b> Organizers: Iliana Baums and Sheila Kitchen
8:30 AM to 9:15 AM	SNP Discovery, Genotype and Database Workshop
9:15 AM to 9:30 AM	Workshop Break
9:30 AM to 10:00 AM	SNP Discovery, Genotype and Database Workshop continued
10:00 AM to 10:15 AM	Toward the genetic prediction of bleaching response in corals Zachary L. Fuller*, Yi Liao, Line K. Bay, Mikhail Matz, & Molly Przeworski
10:15 AM to 10:30 AM	Understanding Heat Stress Resistance in <i>Orbicella faveolata</i> From the Florida Keys Using Gene Network Analyses Catalina Aguilar Hurtado*, I. C. Enochs, K. C. Cohen & DP Manzello
10:30 AM to 11:00 AM	<b>Break</b>
	<b>Contributed Talks: Existing and Emerging Genomic Technologies</b> Organizer: Michael Eitel
11:00 AM to 11:15 AM	seqCAB (Sequence Conversion & Annotation with BLAST+): A BLAST Utility to Facilitate '-omics' Analyses Through Multi-core Parallelization and Taxonomic Annotation Cheryl L. Ames*, Amina Jackson, Sophie M. Colston, Allen G. Collins, Gary J. Vora, & W. Judson Hervey IV

11:15 AM to 11:30 AM	Expressed Exome Capture Sequencing (EecSeq): a method for cost-effective exome sequencing of non-model organisms Jonathan B. Puritz* & Kathleen E. Lotterhos
11:30 AM to 11:45 AM	Whole-chromosome Assembly and Analysis of Hybridogenetic Lineages of the Desert Ant <i>Cataglyphis hispanica</i> Lyam Baudry*, Hugo Darras, Jean-François Flot, Martial Marbouty, Serge Aron & Romain Koszul
11:45 AM to 12:30 PM	<b>Discussion</b>
12:30 PM to 1:30 PM	<b>Lunch</b>

**October 20<sup>th</sup>, 2018, Blenchi Room, Concurrent Session 1, Afternoon**

1:30 PM to 3:30 PM	Assembly/Annotation workshop (continued)
3:30 PM to 4:00 PM	<b>Break</b>
4:00 PM to 6:00 PM	Assembly/Annotation workshop (continued)

**October 20<sup>th</sup>, 2018, Willemstad Room, Concurrent Session 2, Afternoon**

	<b>Contributed Talks: Existing and Emerging Genomic Technologies</b> Organizer: Michael Eitel
1:30 PM to 1:45 PM	Differential Gene Expression Data Elucidate Systemic Effects of Wnt Signaling Inhibition During Segmentation in the Spider <i>Parasteatoda tepidariorum</i> Emily V. W. Setton* & Prashant P. Sharma
1:45 PM to 2:00 PM	BlobToolKit: Identification and Analysis of Non-target Data in All Eukaryote genome projects Mark Blaxter*, Richard Challis, Guy Cochrane, Nima Pakseresht & Edward Richards
	<b>Contributed Talks: IGNITE</b> Organizers: Gert Wörheide and Michael Eitel
2:00 PM to 2:15 PM	Assembling Genomes Into Complete Chromosomes Using Chromosome Conformation Capture: The Case of the Bdelloid Rotifer <i>Adineta vaga</i> Jean-François Flot*, Jitendra Narayan, Lyam Baudry, Alessandro Derzelle, Antoine Limasset, Romain Koszul & Karine Van Doninck

2:15 PM to 2:30 PM	Abundant DNA Methylation in the Demosponge <i>Amphimedon queenslandica</i> is involved in Genomic Evolution and Transcriptional Regulation  Juan Antonio Ruiz-Santesteban*, Yi Jin Liew & Manuel Aranda
2:30 PM to 2:45 PM	Does Evolution of Generalism in <i>Bemisia tabaci</i> Relate to Positive Selection in Cytochrome P450 Enzymes?  Ksenia Juravel*, Diego Santos Garcia, Osnat Malka & Shai Morin
2:45 PM to 3:00 PM	Delineation of the Caribbean Fire Corals ( <i>Millepora</i> spp.) using transcriptomic data  Ingrid C. Ortiz-González, Ramón E. Rivera-Vicéns* & Nikolaos V. Schizas
3:00 PM to 3:15 PM	Genomics of Adaptation  Agostinho Antunes*
3:15 PM to 3:30 PM	Molecular Paleobiology Reveals the Deep Evolution of Ecdysozoa  Mattia Giacomelli* et al.
3:30 PM to 4:00 PM	<b>Coffee Break</b>
	<b>Contributed Talks: General Session</b>
4:00 PM to 4:15 PM	Accessing the miRNA Complement in Tunicate Genomes, an <i>in silico</i> Approach  Cristian A. Velandia-Huerto*, Federico D. Brown, Adriaan Gittenberger, Clara I. Bermúdez-Santana & Peter F. Stadler.
4:15 PM to 4:30 PM	A multi-omic Approach to Reveal Interactions Between the Hard Clam and its Pathogen QPX  Bassem Allam*, Rachel Hartman, Kailai Wang, Sleiman Bassim, Ewelina Rubin and Emmanuelle Pales Espinosa
4:30 PM to 4:45 PM	The state of knowledge and resources for marine invertebrate genomic research  Jonathan A. Coddington
4:45 PM to 6:00 PM	<b>Breakout session or Free time</b>
6:00 PM to 7:00 PM	<b>Keynote:</b> Ascidian coloniality: from genomes to super-organisms Federico D. Brown et al.



**October 20<sup>th</sup>, 2018, Poster Session & Mixer at CARMABI Research Station, Evening**

7:30 PM to 9:00 PM	<p><b>Poster Session &amp; Mixer</b></p> <p>Organizers (alphabetically): Tim Collins, Fabrizio Ghiselli, Kevin Kocot, &amp; Joe Lopez</p>
	<p>Posters (in alphabetical order by presenter's last name):</p>
	<p>GenomeHubs: Distributed Genome Databasing for Neglected Organisms</p> <p>Mark Blaxter* &amp; Richard Challis</p>
	<p>Disentangling a Taxonomic Conundrum: Cryptic Species as Separate Evolutionary Lineages</p> <p>José Cerca* &amp; Torsten Struck</p>
	<p>Transcriptomic Changes During Regeneration in the Marine Sponge <i>Cinachyrella</i> cf. <i>cavernosa</i></p> <p>Aabha Deshpande* &amp; Narsinh L. Thakur</p>
	<p>Integrated Genomic Resources for a Temperate Model of Cnidarian-Algal Symbiosis</p> <p>Holland Elder*, Katherine Diedzic, Manuel Aranda &amp; Eli Meyer</p>
	<p>Draft assemblies of a bryozoan and a chaetognath with Illumina and Oxford Nanopore data sets</p> <p>Rosa Fernández*</p>
	<p>High Quality Genome Assembly of the Octocorallian <i>Corallium rubrum</i>.</p> <p>Philippe Ganot* et al.</p>
	<p>Using RNA-Seq to Elucidate the Phylogeny of Polycladida (Platyhelminthes), a Flatworm Clade with Diverse Life Histories</p> <p>Jessica A. Goodheart*, Allen G. Collins, Michael P. Cummings &amp; Katherine Rawlinson</p>
	<p>Differential Gene Expression Profiles of the Bearded Fireworm, <i>Hermodice carunculata</i>, in Hypoxic Conditions</p> <p>Candace Grimes* &amp; Anja Schulze</p>
	<p>Are ultraconserved elements an informative phylogenetic marker for reconstructing deep molluscan phylogeny?</p> <p>Emily Pabst &amp; Kevin M. Kocot*</p>

	<p>Does Chromatin Diminution Affect Invertebrate Genome Assembly?</p> <p>Aleksey Komissarov*, Sergey Kliver, Mike Rayko, Joseph P. Dunham, Mariangela Iannello, Liliana Milani, Sophie Breton, Sergey V. Nuzhdin, Marco Passamonti, Fabrizio Ghiselli.</p>
	<p>Cinachyrella as a Model Sponge Genus for Evolution, Microbial Symbiosis, and Comparative Genomics</p> <p>Jose V. Lopez*, Nidhi Vijayan, Marie L. Cuvelier, Cole G. Easson, Emily Blake, Astrid Schuster, Alexandra M. Campbell, Yasmin Khan, &amp; Paco Cárdenas</p>
	<p>Dicyemid Mesozoan Genome Reveals Adaptations to the Parasitic Lifestyle</p> <p>Tsai-Ming Lu*, Hidetaka Furuya &amp; Noriyuki Satoh</p>
	<p>Phylogenomics of Class Anthozoa (Cnidaria) Using Universal Target-enrichment Baits</p> <p>A.M. Quattrini, B.C. Faircloth, B. Titus*, E. Rodriguez and C.S. McFadden</p>
	<p>Draft Genome of the Bryozoan <i>Bugula neritina</i> – a Colonial Animal Packing Powerful Symbionts and Potential Medicines</p> <p>Mikhail Rayko*, Adelaide Rhodes, Aleksey Komissarov, Sergey Kliver, Grace Lim-Fong, Jason Kwan, Stephen J O'Brien &amp; Jose V. Lopez</p>
	<p>New Insights on Oyster Genomics: The Flat Oyster as a Model for Disease and Environmental Adaptation Studies</p> <p>Isabelle Boutet, Ricardo Gonzalez-Araya, Benoit Salaun, François Lallier, Jean-Yves Toullec, Ann Andersen, Helene Laguerre, Bassem Allam, Ximing Guo &amp; Arnaud Tanguy*</p>
	<p>PhyloPyPruner: Contamination-Aware Tree-Based Orthology Inference</p> <p>Felix Thalén &amp; Kevin Kocot*</p>
	<p>The Genome of the Chiton <i>Acanthopleura granulata</i></p> <p>Rebecca M. Varney*, Daniel I. Speiser &amp; Kevin M. Kocot</p>
	<p>Monaco Explorations – Climate Change Impacts on Ocean and Human Health</p> <p>Didier Zoccola*</p>

**October 21<sup>st</sup>, 2018, Blenchi Room, Concurrent Session 1, Morning**

	<p><b>Assembly/Annotation Workshop</b> Organizers (alphabetically): C. Titus Brown, Jean-François Flot, Lisa Johnson, Bishoy Kamel, Adelaide Rhodes, Joseph Sevigny, Devin Thomas</p>
8:30 AM to 10:30 AM	Assembly/Annotation workshop continued
10:30 AM to 11:00 AM	<b>Break</b>
	<p><b>QIIME 2 Workshop</b> Organizers (alphabetically): Holly Bik, Joseph Sevigny, Devin Thomas, &amp; Kelley Thomas</p>
11:00 AM to 12:30 PM	QIIME 2 workshop
12:30 PM to 1:30 PM	<b>Lunch</b>

**October 21<sup>st</sup>, 2018, Willemstad Room, Concurrent Session 2, Morning**

	<p><b>Contributed Talks: General Session</b> Organizers (alphabetically): Tim Collins, Fabrizio Ghiselli, Kevin Kocot, &amp; Joe Lopez</p>
8:30 AM to 8:45AM	<p>Revisiting contemporary hybridization between Caribbean Acroporids Sheila Kitchen*, Meghann Devlin-Durante, Kate Stankiewicz, Aakrosh Ratan, Nicole Fogarty, Webb Miller, Iliana Baums</p>
8:45 AM to 9:00 AM	<p>Similarities and differences between genomes of temperate and tropical corals Iliana B. Baums*, Kathryn H. Stankiewicz, Sheila A. Kitchen, Meghann K. Devlin-Durante &amp; Astrangia Genome Consortium</p>
9:00 AM to 9:15 AM	<p>Profiling the Genetic Diversity and Structure of Pocilloporid Coral Populations along the Red Sea Using a Population Genomics Approach - Insights From RAD Sequencing of <i>Stylophora pistillata</i> and <i>Pocillopora verrucosa</i> Carol Buitrago-Lopez*, Thierry Gosselin, Yvonne Sawall, Hagen M Gegner, Maren Ziegler, Manuel Aranda, Daniel J Barshis &amp; Christian R Voolstra</p>
9:15 AM to 9:30 AM	<p>Phylogeny and Function of a Newly-Discovered Coral Parasite within "<i>Candidatus Marinoinvertebrata</i>" J. Grace Klinges*, Stephanie M. Rosales, Ryan McMinds, Elizabeth C. Shaver, Esther Peters, Deron E. Burkepille &amp; Rebecca Vega Thurber</p>
9:30 AM to 9:45 AM	Effects of Light on Coral Growth, Morphology, and Symbiodiniaceae Communities in the Coral Genus <i>Pavona</i>

	Claire J Lewis*, Amy L Moran, Tayler Massey, Shayle B Matsuda, Zac H Forsman, Dave Gulko & Peter B Marko
9:45 AM to 10:00 AM	Identifying the Genetic Mechanisms Underpinning the Patterning of Antenniform Legs in Arachnids Using a Differential Expression Approach in Whip Spiders (Arachnida, Amblypygi)  Guilherme Gainett* & Prashant P. Sharma
10:00 AM to 10:15 AM	The Genome of <i>Lepidodermella squamata</i> (Dujardin 1841) and the Evolution of Developmental Gene pathways in Spiralia  Felipe Aguilera*, Kevin Pang & Andreas Hejnol
10:15 AM to 10:30 AM	Identification of Protein Domains on Putative Ancestral Subgenomic Regions Associated With Genes of the Immune System in the Subphylum Tunicata Using as Reference Genes of Human Cell-lines Previously Mapped on <i>Botryllus schlosseri</i>  Gabriel Luis Hernández- Gómez* & Clara I. Bermúdez-Santana
10:30 AM to 11:00 AM	<b>Break</b>
11:00 to 11:15 AM	Development of Cellular Assays for Characterization of Coral Cells Using Fluorescence-activated Cell Sorting (FACS)  Grace A. Snyder*, Michael T. Connelly, Benyamin Rosental & Nikki Traylor-Knowles
11:15 AM to 11:30 AM	Functional and Genomic Consequences of Mito-nuclear Coevolution in an Intertidal Copepod  Felipe S. Barreto*
11:30 AM to 11:45 AM	Evolution on Ice: 'Omic insights into Molecular Adaptation in Antarctic Sponges  Nathan J Kenny* & Ana Riesgo
11:45 AM to 12:00 PM	50 Shades of Red: An Analysis of the Biodiversity of <i>Goniobranchnus</i> Nudibranchs  Lynn J. Bonomo* & Terrence M Gosliner
12:00 PM to 12:15 PM	A Hybrid-hierarchical Genome Assembly Strategy to Sequence the Invasive Golden Mussel, <i>Limnoperna fortune</i>  Marcela Uliano-Silva, Francesco Dondero, Thomas Dan Otto, Igor

	Costa, Nicholas Costa Barroso Lima, Juliana Alves Americo, Camila Junqueira Mazzoni, Francisco Prosdocimi, & Mauro de Freitas Rebelo*
12:15 PM to 12:30 PM	<b>Discussion</b>
12:30 PM to 1:30 PM	<b>Lunch</b>

**October 21<sup>st</sup>, 2018, Blenchi Room, Concurrent Session 1, Afternoon**

1:30 PM to 3:30 PM	QIIME 2 workshop (continued)
3:30 PM to 4:00 PM	<b>Coffee Break</b>
4:00 PM to 5:00 PM	QIIME 2 workshop (continued)

**October 21<sup>st</sup>, 2018, Willemstad Room, Concurrent Session 2, Afternoon**

	<b>Contributed Talks: EukHiTS</b> Organizers (alphabetically): Holly Bik & Kelley Thomas
1:30 PM to 1:45 PM	Current "Unknowns" in Nematode Genomics and Biodiversity.  Tiago J. Pereira* & Holly M. Bik
1:45 PM to 2:00 PM	New Tools for Old Problems: Population Genomics and Biogeographical Inference of the <i>Stygocapitella subterranea</i> Cryptic Species Complex (Annelida: Parergodrillidae)  José Cerca*, Mark Ravinet, Julian Catchen, Angel Rivera-Colón & Torsten Struck
2:00 PM to 2:15 PM	The Epigenetic Landscape in the Bdelloid Rotifer <i>Adineta</i>  Fernando Rodriguez* & Irina R. Arkhipova
2:15 PM to 2:30 PM	Putting <i>C. elegans</i> in Its Place: Genome Sequencing of All <i>Caenorhabditis</i> Species  Mark Blaxter*, Lewis Stevens & Marie-Anne Félix
2:30 PM to 2:45 PM	The contribution of a diverse set of metazoan draft genomes and improvement of metagenomic analyses of meiofaunal communities  Joseph L. Sevigny*, Francesca Leasi, Anthony Westbrook, Stephen D. Simpson, Jeffrey Hall, Krystalynne Morris, Holly Bik, Paul Montagna, Jon Norenburg, W. Kelley Thomas.
2:45 PM to 3:15 PM	EuKHiTS discussion
3:30 PM to 4:00 PM	<b>Break</b>

4:00 PM to 5:00 PM	<b>Breakout session:</b>
	<b>Phylogenomics Keynote Speaker, co-sponsored by EukHiTS and IGNITE</b>
5:00 PM to 6:00 PM	<b>Keynote:</b> Phylogenomics Without Genomes: Tales from the Understudied  Johanna T. Cannon
6:00 PM to 7:00 PM	<b>Final Roundtable Discussion:</b> GIGA Society Meeting and Non-Profit Status Discussion

**Notes**

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