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

PROGRAM





October 19-21, 2018 Curaçao

Welcome to GIGA III

Sponsored by:



The organizing committee welcomes all of the enthusiastic attendees to the stunningly beautiful island of **Curaçao** for **GIGA III.** This is the third official conference for the Global Invertebrate Genomics Alliance, informally known as GIGA. Following our first meeting at Nova Southeastern University in Dania Beach, and our second meeting at Ludwig-Maximilians-Universität München, we are witnessing increasing interest in and growth of our group and its collective research. Thank you for attending and helping to focus on the latest achievements.

GIGA I laid the ground work, defining the purpose for gathering "a grassroots community of scientists". GIGA II reinforced the GIGA goals outlined in the first white paper, published in the *Journal of Heredity*, and also expanded the scope of GIGA to fully consider transcriptomes, open access data repositories, and the logistics of sample collecting and permitting. These were presented in a second white paper. At GIGA III, we continue along this track, as the primary mission remains the same – to promote genomic studies of invertebrate animals. In this context, special symposia on conservation genomics, phylogenomics, and existing and emerging genomic technologies have been organized, attracting many interesting talks. To highlight the broad scope of invertebrate genomics, we have also had the good fortune to bring in three highly respected keynote speakers (Federico Brown, Joie Cannon, and Mónica Medina) to discuss the field from their own unique research perspectives and experiences.

In addition, we have now hardwired the original charge by providing limited yet intensive practical bioinformatics workshops, which begin on day two. For this educational component, we have assembled a highly-talented group of instructors who have volunteered their time, energy, and skills to train and assist others in conducting genomic studies. This training mission has been provided generous student and post-doc travel funding through the US National Science Foundation, IGNITE, the American Genetics Association, and the Research Coordination Network EukHiTS. We are indebted to these organizations and our industry sponsors, shown above. We hope everyone enjoys GIGA III and finds this a productive conference. A program overview, a detailed program, an index of presenters, and a ballot to vote for the best student contribution are included in this program. To see the abstracts for talks and posters, go to

https://gigaiii.weebly.com/uploads/7/4/8/7/74870527/giga_iii_abstracts_5_october_2018. pdf

When posting about GIGA III on social media, please use hashtag #giga3.

Sincerely,

The Organizing Committee (in alphabetical order) Agostinho Antunes – University of Porto Iliana Baums – Pennsylvania State University Holly Bik - University of California Riverside Heather Bracken-Grissom – Florida International University Tim Collins – Florida International University Michael Eitel – Ludwig-Maximilians-Universität München Jean-Francois Flot – Universite Libre de Bruxelles Fabrizio Ghiselli – Università di Bologna Gonzalo Giribet – Harvard University Lisa Johnson – University of California Davis Bishoy Kamel – University of New Mexico Sheila Kitchen – California Institute of Technology Kevin Kocot – University of Alabama Joe Lopez – Nova Southeastern University Adelaide Rhodes – University of Vermont Joseph Sevigny – University of New Hampshire Devin Thomas – University of New Hampshire Kelley Thomas - University of New Hampshire Gert Wörheide – Ludwig-Maximilians-Universität München

GIGA III, Curaçao Hilton Session Overview

October 19 th , 2018, Willemstad Room	
8:30- 8:45 AM	Welcome to GIGA III: Jose V. Lopez
8:45 - 11:00 AM	Existing and Emerging Genomic Technologies
11:00 AM - 4:00 PM	Phylogenomics I & II
4:00– 6:00 PM	Conservation Genomics I
6:00 - 7:00 PM	Keynote Speaker: Mónica Medina

October 20 th , 2018, Concurrent Sessions		
	Blenchi Room	Willemstad Room
8:30 -11:00 AM	Command Line Workshop	Conservation Genomics II
11:00 - 12:30 PM	Annotation/Assembly	Contributed Talks
1:30 – 4:00 PM	Annotation/Assembly cont.	Contributed Talks
4:00 – 6:00 PM	Annotation/Assembly cont.	Contributed Talks
6:00- 7:00 PM		Keynote: Federico Brown
	CARMABI Lab	
7:30 – 9:00 PM	POSTER SESSION	

October 21 st , 2018, Concurrent Sessions		
	Blenchi Room	Willemstad Room
8:30 -11:00 AM	Annotation/Assembly cont.	Contributed Talks
11:00 - 12:30 PM	QIIME 2 Workshop	Contributed Talks
1:30 – 4:00 PM	QIIME 2 Workshop cont.	Contributed Talks
4:00 – 5:00 PM	QIIME 2 Workshop cont.	Contributed Talks
5:00- 6:00 PM		Keynote: Johanna Cannon
6:00- 7:00 PM		GIGA Society Meeting

GIGA III, Curaçao Hilton Detailed Schedule

October 18 th , 2018, Evening		
5:00 PM to 8:00 PM	Registration, Curaçao Hilton Lobby	
October 19th, 2018, Early Morning		
7:00 AM to 8:30 AM	Registration, Curaçao Hilton Lobby	
(October 19 th , 2018, Willemstad Room, Morning	
8:30 AM to 8:45 AM	Welcome to GIGA III: Jose V. Lopez	
	Existing and Emerging Genomic Technologies Organizer: Michael Eitel	
8:45 AM to 9:00 AM	Introduction: Michael Eitel*	
9:00 AM to 9:30 AM	New Solutions in Invertebrate Genome Research through PacBio Long-read Sequencing	
	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	Coffee Break	
	Phylogenomics I 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	Lunch

October 19 th , 2018, Willemstad Room, Afternoon	
	Phylogenomics II
	Organizers: Gonzalo Giribet and Gert Wörheide
	A Phylogenomic Framework for Decapoda
1:30 PM to 1:45 PM	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
	Resolving Deep Nodes in the Gastropod Phylogeny
2:45 PM to 3:00 PM	Tauana Cunha* & Gonzalo Giribet
3:00 PM to 3:30 PM	Discussion
3:30 PM to 4:00 PM	Coffee Break

(October 19 th , 2018, Willemstad Room, Afternoon
	Conservation Genomics I
	Organizers: Iliana Baums and Sheila Kitchen
4:00 PM to 4:15 PM	The Innovative Potential of Genomic Tools for Conservation in the Face of Global Change
	Iliana B. Baums*
4:15 PM to 4:30 PM	Whole Genome Resequencing Reveals Genomic Basis of Local Adaptation to Extreme Environments in the Ascidian <i>Phallusia nigra</i> .
	Edward G Smith* & John A. Burt
4:30 PM to 4:45 PM	Evaluating Adaptive Potential and Identifying Markers of Thermal Tolerance in a Great Barrier Reef Coral <i>Platygyra daedalea</i>
4:30 PM to 4:45 PM	Holland Elder*, Veronique Mocellin, Jose Montalvo-Proano, Line Bay, & Eli Meyer
	Population Dynamics and Outlier Analysis of the Sea Urchin, <i>Echinometra</i> sp. EZ
4:45 PM to 5:00 PM	Remi N. Ketchum*, Edward G. Smith, Melissa B. DeBiasse, Joseph F. Ryan, Grace O. Vaughan, Dain McParland, John A. Burt, & Adam M. Reitzel
5:00 PM to 5:15 PM	<i>Pocillopora damicornis</i> Immune Gene Expression Patterns in Response to Antibiotics Treatments, Heat Stress and Immune Stimulation with Bacterial Lipopolysaccharide
	Michael T. Connelly*, Crystal McRae, Pi-Jen Liu, & Nikki Traylor- Knowles
	The Genome of the Quagga Mussel and the Evolution of Freshwater Embryonic Osmoregulation
5:15 PM to 5:30 PM	Andrew D. Calcino*, Oleg Simakov, André Luiz de Oliveira, Thomas Schwaha, Elisabeth Zieger & Andreas Wanninger
5:30 PM to 6:00 PM	Discussion
6:00 PM to 7:00 PM	Keynote : Comparative Metatranscriptomes Reveal the Adaptive Potential of Coral Holobionts Under Thermal Stress
	Viridiana Avila, Bishoy Kamel, Michael De Salvo, Roberto Iglesias- Prieto & Mónica Medina*

October 19 th , 2018, Evening	
	Free Time

October 20 th , 2018, Blenchi Room, Concurrent Session 1, Morning	
	Command Line Introduction Workshop 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	Coffee Break
	Assembly/Annotation Workshop
	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	Lunch

October 20 th	, 2018, Willemstad Room, Concurrent Session 2, Morning
	Conservation Genomics II 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
	Toward the genetic prediction of bleaching response in corals
10:00 AM to 10:15 AM	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	Break
	Contributed Talks: Existing and Emerging Genomic
	Technologies 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	Discussion
12:30 PM to 1:30 PM	Lunch

October 20 th , 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	Break
4:00 PM to 6:00 PM	Assembly/Annotation workshop (continued)

October 20 th , 2018, Willemstad Room, Concurrent Session 2, Afternoon	
	Contributed Talks: Existing and Emerging Genomic Technologies 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</i> <i>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
	Contributed Talks: IGNITE 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
	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</i> <i>queenslandica</i> is involved in Genomic Evolution and Transcriptional Regulation
	Juan Antonio Ruiz-Santiesteban*, 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
	Genomics of Adaptation
3:00 PM to 3:15 PM	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	Coffee Break
	Contributed Talks: General Session
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	Jonathan A. Coddington* Breakout session or Free time

October 20 th , 2018,	Poster Session & Mixter at CARMABI Research Station, Evening
	Poster Session & Mixer
7:30 PM to 9:00 PM	Organizers (alphabetically): Tim Collins, Fabrizio Ghiselli, Kevin Kocot, & Joe Lopez
	Posters (in alphabetical order by presenter's last name):
	GenomeHubs: Distributed Genome Databasing for Neglected Organisms
	Mark Blaxter* & Richard Challis
	Disentangling a Taxonomic Conundrum: Cryptic Species as Separate Evolutionary Lineages
	José Cerca* & Torsten Struck
	Transcriptomic Changes During Regeneration in the Marine Sponge <i>Cinachyrella</i> cf. <i>cavernosa</i>
	Aabha Deshpande* & Narsinh L. Thakur
	Integrated Genomic Resources for a Temperate Model of Cnidarian- Algal Symbiosis
	Holland Elder*, Katherine Diedzic, Manuel Aranda & Eli Meyer
	Draft assemblies of a bryozoan and a chaetognath with Illumina and Oxford Nanopore data sets
	Rosa Fernández*
	High Quality Genome Assembly of the Octocorallian Corallium rubrum.
	Philippe Ganot* et al.
	Using RNA-Seq to Elucidate the Phylogeny of Polycladida (Platyhelminthes), a Flatworm Clade with Diverse Life Histories
	Jessica A. Goodheart*, Allen G. Collins, Michael P. Cummings & Katherine Rawlinson
	Differential Gene Expression Profiles of the Bearded Fireworm, <i>Hermodice carunculata</i> , in Hypoxic Conditions
	Candace Grimes* & Anja Schulze
	Are ultraconserved elements an informative phylogenetic marker for reconstructing deep molluscan phylogeny?
	Emily Pabst & Kevin M. Kocot*

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

Monaco Explorations – Climate Change Impacts on Ocean and Human Health
Didier Zoccola*

October 21 st , 2018, Blenchi Room, Concurrent Session 1, Morning	
	Assembly/Annotation Workshop
	Organizers (alphabetically): C. Titus Brown, Jean-François Flot, Lisa Johnson, Bishoy Kamel, Adelaide Rhodes, Joseph Sevigny, Devin Thomas
8:30 AM to 10:30 AM	Assembly/Annotation workshop continued
10:30 AM to 11:00 AM	Break
	QIIME 2 Workshop Organizers (alphabetically): Holly Bik, Joseph Sevigny, Devin Thomas, & Kelley Thomas
11:00 AM to 12:30 PM	QIIME 2 workshop
12:30 PM to 1:30 PM	Lunch

October 21 st	, 2018, Willemstad Room, Concurrent Session 2, Morning
	Contributed Talks: General Session Organizers (alphabetically): Tim Collins, Fabrizio Ghiselli, Kevin Kocot, & Joe Lopez
8:30 AM to 8:45AM	Revisiting contemporary hybridization between Caribbean Acroporids Sheila Kitchen*, Meghann Devlin-Durante, Kate Stankiewicz, Aakrosh Ratan, Nicole Fogarty, Webb Miller, Iliana Baums
8:45 AM to 9:00 AM	Similarities and differences between genomes of temperate and tropical corals Iliana B. Baums*, Kathryn H. Stankiewicz, Sheila A. Kitchen, Meghann K. Devlin-Durante & Astrangia Genome Consortium
9:00 AM to 9:15 AM	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
9:15 AM to 9:30 AM	Gegner, Maren Ziegler, Manuel Aranda, Daniel J Barshis & Christian R Voolstra 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. Burkepile & Rebecca Vega Thurber
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	Break
11:00 to 11:15 AM	Development of Cellular Assays for Characterization of Coral Cells Using Fluorescence-activated Cell Sorting (FACS)
11:00 to 11:15 AM	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>Goniobranchus</i> Nudibranchs
	Lynn J. Bonomo* & Terrence M Gosliner

	A Hybrid-hierarchical Genome Assembly Strategy to Sequence the Invasive Golden Mussel, <i>Limnoperna fortune</i>
12:00 PM to 12:15 PM	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	Discussion
12:30 PM to 1:30 PM	Lunch

October 21 st , 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	Coffee Break
4:00 PM to 5:00 PM	QIIME 2 workshop (continued)

October 21 st , 2018, Willemstad Room, Concurrent Session 2, Afternoon	
	Contributed Talks: EukHiTS
	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 Adineta
	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	Break
4:00 PM to 5:00 PM	Breakout session:
	Phylogenomics Keynote Speaker,
	co-sponsored by EukHiTS and IGNITE
5:00 PM to 6:00 PM	Keynote: Phylogenomics Without Genomes: Tales from the Understudied Johanna T. Cannon
6:00 PM to 7:00 PM	Final Roundtable Discussion: GIGA Society Meeting and Non- Profit Status Discussion

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