

# IMMUNOINFORMATICS: BRIDGING PERSPECTIVES FROM THE SHLARC AND THE SIP

## SCIENTIFIC PROGRAM



<b>8:30-8:45</b>	<b>Registration &amp; Coffee</b>
	Venue: MSH Ange Guépin – Hall
<b>8:50-9:00</b>	<b>Welcome and Opening remarks</b>
	<p><b>Nicolas Vince</b> (SHLARC, CR2TI UMR1064, Inserm, Nantes Université)  <b>Martin Maiers</b> (SIP, NMDP, USA)</p>
<b>9:00-9:30</b>	<b>Session I “Advancing HLA Genomics”</b>
<b>9:00-9:30</b>	<p><b>“Building reference panels for admixed population: the impact of diversity on HLA imputation”</b></p> <p><b>Nayane Brito Silva</b> (Ph.D. student, SHLARC, CR2TI UMR1064, Inserm, Nantes Université, France)</p>
<b>9:30-10:00</b>	<p><b>“Qatar genome: Insights on HLA and genomics from the Middle East”</b></p> <p><b>Christophe Demay</b> (Researcher, Qatar Genome Program, Qatar)</p>
<b>10:00-10:30</b>	<p><b>“The HLA tools R Package for Informatic Investigations of HLA Region Genes”</b></p> <p><b>Steven Mack</b> (Professor, University of California, San Francisco, San Francisco, CA, United States)</p>
<b>10:30-11:00</b>	<b>Coffee break</b>
<b>11:00-12:30</b>	<b>Session II “Innovations in Genomic Sequencing: Aligning MHC and LRC with Next-Generation Algorithms”</b>
<b>11:00-11:30</b>	<p><b>“MHC-short read alignment-free calling”</b></p> <p><b>Kristen Wade</b> (PostDoc, Weill Institute for Neurosciences, Department of Neurology, University of California San Francisco, San Francisco, California, USA)</p>
<b>11:30-12:00</b>	<p><b>“LRC-short read calling”</b></p> <p><b>Danillo Augusto</b> (Ph.D., Associate Professor, The University of North Carolina at Charlotte, Charlotte, USA)</p>
<b>12:00-12:30</b>	<p><b>“New algorithms in NGSengine 3.0 for accurate long-read sequencing-based typing”</b></p> <p><b>Loes van de Pasch</b> (Ph.D., Director Bioinformatics at GenDx, Utrecht, Netherlands)</p>
<b>12:30-13:45</b>	<b>LUNCH</b>

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14:00-12:30	<b>Session III “Population Genetics: Frontiers in Genomic Analysis”</b>
14:00-14:30	<p><b>“Current methods in statistical imputation: going beyond missing genotypes”</b></p> <p><b>Anthony Herzig</b> (Ph.D., Researcher INSERM, Bretagne Occidentale University, Brest, France)</p>
14:30-15:00	<p><b>“Immunogenetics of infectious diseases in Benin: collaborative research with local Scientists”</b></p> <p><b>Laure Gineau</b> (Ph.D., Researcher IRD, University of Paris, Paris, France)</p>
15:00-15:30	<p><b>“Are identical HLA alleles identical by descent?”</b></p> <p><b>Diogo Meyer</b> (Professor, The University of São Paulo, São Paulo, Brazil)</p>
15:30-16:00	<b>Coffee break</b>
16:00-17:30	<b>Session IV “Latest advancements in HLA typing and genomic analysis”</b>
16:00-16 :30	<p><b>“MHC Graph Assembly”</b></p> <p><b>Stephan Scholtz</b> (Ph.D. student., Institute of Medical Microbiology and Hospital Hygiene, Heinrich Heine University Düsseldorf, Düsseldorf, Germany)</p>
16:30-17:00	<p><b>“Gene feature enumeration: how to improve HLA alleles description”</b></p> <p><b>Martin Maiers</b> (Ph.D., NMDP, Minneapolis, MN, USA)</p>
17:00-17:30	<p><b>“Expanding the Genotype List String grammar for HLA and KIR genotypes”</b></p> <p><b>Jürgen Sauter</b> (Ph.D., DKMS German Bone Marrow Donor Center, Germany)</p>
17 :30-18:00	<b>Closing Remarks</b>