

# Program DSB 2020 - Rennes - France

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## Monday, Feb 3

- Welcome evening, from 6.30 pm [Shamrock](http://www.leshamrockrennes.com) pub <http://www.leshamrockrennes.com>

## Tuesday, Feb 4 [Inria/Irisa Campus de Beaulieu](http://www.irisa.fr/en/access-map) - Room Petri/Turing <http://www.irisa.fr/en/access-map>

- **9:15** Welcome all - few technical information
- **9:30**  
*Cost-optimal assignment of elements in genome-scale multi-way bucketed Cuckoo hash tables*  
Jens Zentgraf, Henning Timm and Sven Rahmann
- **10:00**  
*Faster Xenograft Sorting with 3-Way Bucketed Cuckoo Hashing of k-mers*  
Jens Zentgraf and Sven Rahmann
- \*\*10:30 Coffee break
- **11:00**  
*Efficient and scalable representation of k-mer sets using simplitigs and spectrum-preserving string sets*  
Amatur Rahman, Paul Medvedev, Karel Brinda, Michael Baym and Gregory Kucherov
- **11:30**  
*REINDEER: efficient indexing of k-mer presence and abundance in sequencing datasets*  
Camille Marchet, Zamin Iqbal, Mikaël Salson and Rayan Chikhi
- **12:00 Lunch**
- **13:30**  
*Hierarchical Organization of Syntenic Blocks in Large Genomic Datasets*  
Daniel Doerr
- **14:00**  
*viaDBG - Fast and accurate approach for viralquasispecies inference*  
Borja Freire, Susana Ladra, José Ramón Paramá and Leena Salmela
- **14:30**  
*Space-efficient indexing of spaced seeds for accurate overlap computation of raw optical mapping data*  
Riku Walve, Simon Puglisi and Leena Salmela
- **15:00 Coffee break**

- **15:30**

*Computing longest common substring with  $k$  mismatches: Theory and practice*

Garance Gourdel, Tomasz Kociumaka, Jakub Radoszewski and Tatiana Starikovskaya

- **16:00** [Work In Progress]

*BCash: Best Compressible Hash*

Antoine Limasset

- **16:30** [Work In Progress]

*HowDeSBT and Simka wedding. What has been done and what we plan to do*

Téo Lemane, Paul Medvedev, Rayan Chikhi, Pierre Peterlongo

- **17:00** Time for discussion

- **19:00** Diner at restaurant "[Origines](http://origines-rennes.fr/)" Hotel Dieu <http://origines-rennes.fr/>

**Tuesday, Feb 5** [Inria/Irisa Campus de Beaulieu](http://www.irisa.fr/en/access-map) - Room Petri/Turing <http://www.irisa.fr/en/access-map>

- **9:00**

*In-Place Bijective Burrows Wheeler Transformations*

Dominik Köppl, Daiki Hashimoto, Diptarama Hendrian and Ayumi Shinohara

- **9:30** [Work In Progress]

*Dynamic quasi-minimal perfect hash function for  $k$ -mers*

Paola Bonizzoni, Luca Denti, Erik Garrison, Yuri Pirola and Marco Previtali

- **10:00**

*Million sequences indexing*

Antoine Limasset

- **10:30 Coffee break**

- **11:00**

*Optical map guided genome assembly*

Miika Leinonen and Leena Salmela

- **11:30**

*srnaMapper: a mapping tool for short-RNA sequencing*

Matthias Zytnicki

- **12:00**

*Shark: fishing in a sample to discard irrelevant RNA-Seq reads*

Paola Bonizzoni, Tamara Ceccato, Gianluca Della Vedova, Luca Denti, Yuri Pirola, Marco Previtali and Raffaella Rizzi

- **12:30 Lunch**

- **13:30**

*HASLR: Fast Hybrid Assembly of Long Reads*

Ehsan Haghshenas, Hossein Asghari, Jens Stoye, Cedric Chauve, Faraz Hach

- **14:00**

*Reference independent somatic structural variant call*

Taiki Yamada, Kenichi Chiba, Nozomi Hasegawa, Keisuke Kataoka, Yuichi Shiraishi and Kana Shimizu

- **14:30** [Work In Progress]

*Superstring Graph in compact space*

Bastien Cazaux and Eric Rivals

- **15:00** Final Coffee break and *ad libitum* discussions