

# Japan-Germany International Workshop 2019-1


## The Human Cell Type Authentication Initiative

May 15-17 Center for iPS Cell Research and Application

Program

Venue: 2-106

### Wednesday, May 15th, 2019

13:30-13:35	Opening and welcome address	
13:35-14:05	Current knowledge on cell stability and differentiation	Prof. Wataru Fujibuchi (CiRA)
14:05-14:35	Data standards for stem cells	Prof. Andreas Kurtz (Charite)
14:35-15:05	Discussion	
15:05-15:30	Coffee break	
15:30-16:30	Research topic 1	
15:30	Discovery of cell-type-specific biological processes for disease modeling	Ying Chen (CiRA)
15:50	Nomenclature, classification, and identifiers	Nils Bultjer (Charite)
16:10	Estimating the number of human cell types by independent component analysis	Susumu Sawada (CiRA)
16:30-17:00	Discussion	
17:30-	Dinner (Optional) Ryouridocoro Hana: ¥4,000 / person (delicious foods and one drink)	

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### Thursday, May 16th, 2019

10:00-11:00	Research topic 2	Chair: Prof. Andreas Kurtz
10:00	Using ontologies for the representation of human pluripotent stem cell lines	Dr. Stefanie Seltmann (Charite)
10:30	A cell-centric data resource for mammalian kidney (KIDMAP)	Dr. Nancy Mah (Charite)
11:00-12:00	Discussion	
12:00-13:30	Lunch	

13:30-14:30	Invited speaker	Chair: Prof. Wataru Fujibuchi
13:30	A Method for Analyzing Single Cell Expression Data Based on PCA, Gaussian Mixture Model, and Kullback–Leibler Divergence	Prof. Tatsuya Akutsu (ICR)
14:00	Novel computational model of gastrula morphogenesis to identify spatial discriminator genes by self-organizing map (SOM) clustering	Dr. Tomoya Mori (ICR)

14:30-15:00 Coffee break

15:00-16:00 Discussion

17:30- Socializing event: Dinner at a riverside restaurant



Mimasuya Monami:

¥3,980 / person ※ Half price (¥2,000) for German members and students

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Friday, May 17th, 2019

13:30-14:30	Research topic 3	Chair: Prof. Wataru Fujibuchi
13:30	Revolution of chemical toxicity prediction system using human ES/iPS cells	Dr. Junko Yamane (CiRA)
14:00	A new mathematical model for RT-qPCR data analysis to improve precision and reduce pipetting labor	Dr. Yulia Panina (CiRA)
14:30-14:50	Coffee break	
14:50-16:00	Summary and Discussion	Chair: Drs. Mah & Yamane
19:00-	Optional Aikido experience	