### Rheinische Friedrich-Wilhelms-Universität Bonn



Bonn-Aachen International Center for Information Technology

## Master Programme

## **Life Science Informatics (LSI)**

#### **Notification**

Topic of Master's Thesis

Last/first nan	ne:	Camila Duitama González				
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Address:	Zülpi	cher Platz 9, Köln.				
•		<b>.</b>		Thesis in <i>Life Science Informatics</i> : ancer subtypes using SBC (Survival		
based Baye				and castypes dening all a (earth an		
1 <sup>st</sup> reviewer:	Prof	f. Dr. Holger Frö	hlich			
2 <sup>nd</sup> reviewer: Prof. Dr. Martin Hofmann-Apitius						
				cience content of thesis: Obtain and preprocess perform and external validation of the SBC		
clusters on	the	Verhaak study,	ensuring tha	at the training and testing subtypes have		
distinct surv	/ival	curves. This re	quires docu	menting the process in a public repository,		
splitting the	data	a into training a	nd testing a	nd developing a pipeline that automatises		
the use of t	he S	BC model on a	ny other dat	aset and set of parameters.		

Short description of the envisage	ed life science content of thesis: Ch	aracterise the obtained
	king at other data modalities for con	
requires looking for significant e	nrichment of the SBC patient cluste	rs with other established
patient stratification schemes, p	erforming gene set enrichment on th	ne SBC signature genes,
looking into miRNA targets, Cop	y Number and Somatic Mutation pa	tterns as well as single
sample GSEA (ssGSEA) scores	and interpreting other clinical factor	rs present in the data.
explicitly prolonged by the exa	nin 6 months after the above date, ur amination board. A written applica e for submission may be extended u	ation for prolongation is
1 <sup>st</sup> reviewer 's signature	Student's signature	
2 <sup>nd</sup> reviewer 's signature		
Is the topic of the Master The (mandatory information)?	sis potentially subject to intellectu	al property rights issues
Yes	No	
Date of deadline for submission	on of Master's thesis:	
Approved:		
Prof. J. Bajorath Head of the LSI Exam Board	Prof. M. Hofmann-Apitius Member of the LSI Exam Board	Prof. T. Berlage Member of the LSI Exam Board
All mandatory courses have bee	n successfully completed	
Full credit points in all modules h	nave been obtained	

# Addendum to the Notification about the Topic of the Master's Thesis

The above mentioned Master's Thesis will be carried out at an institution outside of the University of Bonn.

Name of the Institute		
Address of the Institute		
The contact person at the Inst	titute at which the Master's Thesis	is carried out
is:		
Phone:		
Fax:		
e-mail:		
Approved:		
Prof. J. Bajorath Head of the LSI Exam Board	Prof. M. Hofmann-Apitius  Member of the LSI Exam Board	<b>Prof. T. Berlage</b> Member of the LSI Exam Board