

Helmholtz Young Investigator Groups – Annual Report

Disclaimer: The questionnaire is provided in English and can also be filled out in German.

All form fields with a red frame are mandatory and need to be filled out. (If you cannot make an entry, please enter "-" or "n/a".)

Core data					
Funding program	Helmholtz Young Investigator Groups				
Project ID number	VH-NG- 1104				
Project title	Structure and dynamics of gas-phase biomolecules studied by phc				
Name of reporting person	Sadia Bari	Sadia Bari			
Helmholtz Center	DESY	DESY			
Partner university	Georg-August-Universität Göttingen				
Helmholtz research field	Matter				
Reporting period [dd.mm.yyyy – dd.mm.yyyy]	01.01.2019-31.12.2019				
Number and length of cost-neutral extensions of the project (if applicable)	n/a				
Annual installment (reporting year)	Reference value (in EUR)	Actual value (in EUR)			
Share of the Initiative and Networking Fund	125000	104526,18			
Share of the Helmholtz Center	137000	146220,80			



1	How do you assess the utilization of the current allocated annual installment until the end of the year? (forecast)			
Code	Item			
V1.1	I am planning to use	262000	EUR of this year's allocated planned installment.	
	(The planned annual installments are listed in the contract, which was concluded between the Helmholtz Association and the Helmholtz Center.)			

2	Please explain last year's expenses with regard to the following categories:
Code	Item
V2.1	Investment costs: Vakuum Kammern Helium Puffer System Gestell Apparatur
V2.2	Personnel costs: Eigene Stelle Postdoc Doktorand
V2.3	General expenses/material costs: Biomolekül Samples Elektrospray Zubehör Vakuum und Elektro-Zubehör Reisekosten Konferenzen Reisekosten Messzeiten

3	How do you rate the following aspects?					
Code	ltem	I fully agree	l agree	I partially agree	l agree less	I do not agree
V3.1	My research group has reached full development.	~				
V3.2	I am well connected with my university partner.		~			
V3.3	The status of my career development corresponds to my vision.		/			
V3.4	I am satisfied with my overall situation.		~			
V3.4C	Please list positive or critical aspects, if applicable:					
V3.5	The working progress of my research group is according to my schedule.		~			
V3.6	The promises of the Helmholtz Center, e. g. regarding access to technology and infrastructure, financial independence, personnel responsibility are being kept.		V			
V3.6C	Please list positive or critical aspects, if applicable:					

4	How do you assess the independence of your research group?		
		vn	
Code	Item	Yes	2
V4.1	I can freely decide on the budget allocated to me as per the application.	V	
V4.2	I continue to develop my research agenda autonomously.	V	
V4.3	I make my own personnel decisions.	V	



5	How do you assess the progress of the project?		
Code	Item	Yes	No No
V5.1	Compliance with the timeline as described in the proposal	V	
V5.1C	In case you deviated from the timeline, please give a brief explanation:		
V5.2	Achievement of important milestones in line with the proposal	~	
V5.2C	In case milestones have not been reached, please give a brief explanation:		
V5.3	Compliance with the financial plan as described in the proposal	V	
V5.3C	If changes to the financial plan have occurred, please give a brief explanation:		



6	Please describe the scientific progress of the project in the reporting year along the individual work packages.
Code	Item
V6.1	Max. one page
	Die Resultate der Messungen von kleinen molekularen Bausteinen mit PIPE an der PETRAIII/P04 Beamline wurden zusammen mit modernsten quantenmechanischen Berechnungen in Zusammenarbeit mit einem Postdoc aus der Theoriegruppe von Robin Santra 2019 in PCCP veröffentlicht. Durch Röntgenabsorptionsspektren der kationischen Reihe NHy+ (y=0-3) in der Innenschale haben wir signifikante Veränderungen der Absorptionsresonanzen in Abhängigkeit von der Anzahl der an den zentralen Stickstoff gebundenen Wasserstoffe gefunden.
	Weitere Messungen an Peptiden, Proteinen und an verschiedenen Metallporphyrine wurden mit der Apparatur C (ESI gekoppelt an der Nanocluster Falle) am Synchrotron durchgeführt und die Ergebnisse werden gerade für Publikationen erfasst.
	Aufbau A (mobiles ESI-Fallen-Massenspektrometer) wurde erfolgreich bei einer FEL Messzeit eingesetzt.
	Wir haben ortsspezifische Fragmentation in schwefelhaltigen Peptiden bei resonanter Absorption an der Schwefel L-Kante nachweisen können. Dies ist ein wichtiger Schritt in der Ermöglichung Pump-Probe Experimenten in größeren Biomolekülen und die Beobachtung von Dynamiken in solchen Systemen.
	Zum ersten Mal wurden Messungen von Elektronen in Koinzidenz mit Protein-Ionen mit dem Ersatzaufbau B in einer Messzeit am SOLEIL erfolgreich durchgeführt.

7	How do you assess your career development and networking with the university?				
	n				
Code	Item September 1997				
V7.1	I work closely together with the university and its structures (e.g. integration into the faculty council, doctoral procedures).				
V7.2	I am gaining teaching experience.				
V7.2C	If yes, please indicate the number of semester hours per week:				
V7.3	I am appointed to a joint junior professorship.				
V7.4	I am appointed to a joint W2/W3 professorship.				
V7.5	I have an option for permanent employment ("tenure").				
V7.6	Please describe your foreseeable or planned future career prospects:				
	Angestrebte W2/W3 Professur				
V7.7	I have taken advantage of the employer's support for family phases.				
V7.8	Please describe your current function within the Helmholtz Center (position description):				
	DESY-wide deputy speaker of the Research Topic Life Sciences-Building Blocks of Life: Structure and Function (MML-Life, RT3). Member of DESY Scientific Committee (WA). Co-speaker Pillar 5 (Riochemical and Riological Function) at Centre for Molecular				
V7.9	Please describe your current function within the university (e. g. also as a committee member):				
	PhD committee member: Clara Saak (10/2019, Uppsala University), Frederik Busse (07/2019, Universität Hamburg), Zhipeng Huang (05/2019, Universität Hamburg), Linda Giacomozzi (04/2019, University of Stockholm).				
V7.10	Please indicate the current status of networking with other actors (multiple answers possible):				
	✓ Cooperations at the partner university				
	✓ Cooperations with other universities in Germany				
	✓ Cooperations with universities abroad				
	✓ Cooperations with other non-academic research institutions in Germany				
	✓ Cooperations with non-academic research institutions abroad				
	Cooperations with companies				
	Cooperations with other organisations, namely				

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8	Please describe the current output of your group.			
Code	Item	Amount / total sum	N/a	
V8.1	Peer-reviewed publications in the reporting year	4		
V8.2	Registered patents in the reporting year	0		
V8.3	Spin-offs in the reporting year	0		
V8.4 V8.5	Acquisition of third-party funding in the reporting year (please mention the type and amount of funding as well as the involved persons): DASHH, together with Prof. Robert Meißner (TUHH): 2 PhD students. Co-PI in the COST Action CA18212 (EU Framework Programme Horizon 2020) Awards and recognitions (please include the names of the			
	respective persons): Bari: 7 invited talks Schwob: 2 invited talks			
V8.6	Please describe which activities you have carried out in the area of knowledge and technology transfer:			

9	How do you assess the personnel development measures and qualification? (Helmholtz Academy)			
Code	Item	res	9	N/a
V9.1	Have you fully attended the course "Leading Your Group"?	V		
V9.2	Have you implemented the acquired personnel development measures and the qualification plan?	v		
V9.3	Have you been assigned a permanent contact person?			V
V9.4	Did you have opportunities for discussions with the institute management to reflect on your own development and career planning?	v		

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