



Palestinian-German

ScienceBRIDGE

Al-Quds University (AQU)

Bärbel Stark & Isam Ishaq

Successful Projects accepted during the PGSB

- RM03-17: Neuroimaging using Magnetoencephalography (MEG) Cross-cultural exploration of Chronodisruption and Depression (Jürgen Dammers, Mohammad Herzallah)
- RM07-17: Structure and Dynamics of magnetocaloric materials (Karen Friese, Salman Salman)
- RM08-17: Knowledge-base and infrastructure for using algae to efficiently deliver waste nutrients to crop plants (Ladislav Nedbal, Mutaz Qutob + 5 other Palestinian institutions)
- RM12-17: Experimental tests of time-reversal invariance (TRI) (Hans Stroehler, Salman Salman)
- RM13-17: Development of Durable Cathodes for All-Solid-State Lithium I on Batteries (Robert Mücke, Salman Salman)
- RM20-18: Synthesis of novel fluorescent Cisplatin(IV) prodrug derivatives and their delivery by fusogenic liposomes as nanocarriers into cancer cells (Bernd Hoffmann, Yousef Najajreh)

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First call successful candidates

- **Fadi Shaheen:** MSc, Materials science, 6m (1-7/2018), Energy materials synthesis and processing - modelling Durable cathodes for all-solid state lithium ion batteries (Robert Mücke IEK-1, Salman Salman)
- **Falastine Abusaif** (Hans Stroehler IKP-2, Salman Salman)
- **Khalil Abu Ayyash:** MSc, Physics, 6m (1-7/2018), Experimental hadron physics Time reversal invariance experiments at COSY (Hans Stroehler IKP-2, Salman Salman)
- **Nour Marayta:** PhD, Physics, 3y (2017-2020), Neutron Scattering Neutron and synchrotron radiation measurements on materials for magnetocaloric cooling (Karen Friese JCN2-2, Salman Salman)

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Second call successful candidates

- **Enas Bzour:** PhD?, Physics, 2w (2/2018), Electronic properties of materials (Lutz Baumgarten PGI-6, Salman Salman)
- **Lotfi Talalwa** (Simone Beer INM-2, Salman Salman)
- **Mahmoud Zaid:** PhD, Environmental and earth science, 3y (2018-2021), Agrosience- soil research Relating to agricultural specific to Bethlehem area (Roland Bol IBG-3, Mutaz Qutob)

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Third call candidates

- MSc Applicants
 - **Mary Mousallam**, Physics (Salman Salman)
- PhD Applicants
 - **Ahlam Issa**, Medical Imaging (Hussein Almasri)
 - **Fadi Al-Jaljoui**, Chemistry (Salman Salman)
 - **Amro Alawna**, Medical Imaging (Mohammad Hjouj)
 - **Mohammad Abuallan**, Physics (Salman Salman)
 - **Nibal Khudeish**, Biology and Biotechnology (Mohammad Herzallah)
 - **Abdelrahman Sawalma**, Biology and Biotechnology (Mohammad Herzallah)

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RETURNER PROGRAM

- Returners from previous scholarship in Germany (and other EU countries) are playing the key role in running the Dual Studies programs at AQU
- Presentations on results of exchange programs (short and long-term) at AQU
- Involving returners into activities of Deanship for Research

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Staffing of returners

- University prospective on staffing of returners
 - Pro-active discussions of faculty deans having “PGSB graduates” with university leadership on strategic developments and the respective need and opportunity to employ returners
 - Exploring external funding opportunities to secure salaries for returners through international projects
 - Exploring opportunities that Palestinian universities share salary for returners

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Follow-up activities

- Collaboration between Dr. Dammers and Dr. Herzallah resulted in a grant application to the **PALGER** program
- A **DFG** proposal involving Dr. Dammers, Dr. Herzallah, and other German institutions is being prepared
- Supporting Master and PhD graduates with experience at FZJ to **create young researchers groups** at AQU (and/or on inter-university level) and to train undergraduate students in research skills.
- Motivating “PGSB graduates” to participate in **AGYA** research activities
- Checking possibilities for financial support to acquire lab or other **research equipment** through “PGSB graduates”



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Future outlook of PGSB

From individual mobilities to aggregated activities leading to the establishment of national research center(s):

- **Research Management Training**
 - Important to institutionalize and strengthen efficiency of AQU's participation in PGSB and international co-operations in general
- **Practical training for BSc DS students**
 - Essential to support the relationship between training-on-the-job, academic studies and research – Palestinian students and faculty will draw from rich FZJ experiences
- Expand the **exchange of faculty** in fields of strategic research interest of both sides (so far: mainly physics, medicine, agriculture, bio-technology topics)
- Establishment of an interdisciplinary graduate school

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