



Raja Muhammad Aqib

📍 **Work** : Office No.226, Engineering Building No.4, , MSDL, Department of Mechanical System Engineering, Jeonbuk National University,, 54896, Jeonju, South Korea (Republic of Korea)

✉ **Email:** aqibraja888@gmail.com ✉ **Email:** raja@nanoctr.cn

☎ **Phone:** (+86) 17800176125 🏠 **Phone:** (+92) 03125445257

🗨 **WeChat:** AqibRaja007

🌐 **LinkedIn:** <https://www.linkedin.com/in/raja-muhammad-aqib-bb345213a>

👤 **ORCID:** <https://orcid.org/0009-0007-1092-8653>

Gender: Male **Date of birth:** 26/07/1993 **Nationality:** Pakistani

ABOUT MYSELF

I am a dedicated, result-driven, Ph.D. graduate in Nanoscience and Nanotechnology with a focus on pioneering research in DNA nanotechnology. I have demonstrated a track record for designing and manipulating DNA nanostructures for advanced applications. Adept employing a multidisciplinary approach, fostering collaboration, and maintaining a commitment to excellence. I am eager to apply my expertise in a challenging professional environment, where I can contribute to cutting-edge advancements and make a meaningful impact.

WORK EXPERIENCE

[02/09/2024 – Current]

Postdoctoral Researcher

Jeonbuk National University

City: Jeonju | **Country:** South Korea (Republic of Korea)

Research Interests

- DNA Nanotechnology
- DNA-Polymer hybrid Nanostructures and their potential applications
- Super DNA Nanostructures

[03/09/2017 – 30/07/2024]

Educational researcher

National Center for Nanoscience and Technology

City: Beijing | **Country:** China

- Research on functional DNA nanomaterials and the synthesis of DNA-polymer conjugates, with a focus on their biomedical applications.
- Investigates the physical, chemical, and photothermal behaviour of Functional DNA-Polymer conjugates.
- Nanoparticle Synthesis

[10/01/2016 – 10/06/2016]

Internship

School of Natural Science (SNS), NUST University

City: Islamabad | **Country:** Pakistan

Synthesis and Characterization of Zinc Oxide and Manganese Doped Zinc Oxide Nanoparticles

EDUCATION AND TRAINING

[03/09/2017 – 30/06/2024]

MS leading to Ph.D. in Nanoscience and Nanotechnology

National Center for Nanoscience and Technology

City: Beijing | **Country:** China | **Field(s) of study:** Material Science ; DNA Nanotechnology

- Worked on Techniques (Agarose gel electrophoresis, Native PAGE, SDS-PAGE, PCR)
- Characterization Techniques (AFM, TEM, SEM, UV, DLS)
- Knowledge of DNA self-assembly, Nanoparticle Synthesis, and Polymerization

[01/06/2012 – 30/06/2016]

BS in Nanoscience and Technology (4-year Program)

Preston Institute of Nanoscience and Technology, Preston University

City: Islamabad | **Country:** Pakistan |

PUBLICATIONS

- [2024] [Efficient construction of higher-order DNA nanostructures by chemically conjugated branched DNA](#)
Reference: Chem. Commun., 2024,60, 4715-4718
Raja Muhammad Aqib, Yuang Wang, Jianbing Liu and Baoquan Ding
- [2024] **Light Responsive DNA Nanomaterials and Their Biomedical Applications**
Reference: Chem Asian J. 2024;19(10):e202400226.
Raja Muhammad Aqib, Arsalan Umer, Jialin Li, Prof. Jianbing Liu, Prof. Baoquan Ding
- [2023] [Efficient Construction of a Polyaniline-coated DNA Nanoparticle for Photothermal Therapy](#)
Reference: Chem Res Chin Univ, 2023, 6, 884-890
Raja Muhammad Aqib, Changping Yang, Xiaohui Wu, Yuang Wang, Jing Fan, Yingxu Shang, Jianbing Liu & Baoquan Ding (2023)
- [2023] [Engineered Nano-Bio Interfaces for Stem Cell Therapy](#)
Reference: Precis. Chem. 2023, 1, 6, 341-356
Arsalan Umer, Muhammad Daniyal Ghouri, Theoneste Muyizere, **Raja Muhammad Aqib**, Abdul Muhaymin, Rong Cai & Chunying Chen

LANGUAGE SKILLS

Mother tongue(s): Urdu

Other language(s):

English

LISTENING C2 READING C2 WRITING C1

SPOKEN PRODUCTION C1 SPOKEN INTERACTION C2

Chinese

LISTENING A1 READING A1 WRITING A1

SPOKEN PRODUCTION A1 SPOKEN INTERACTION A1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user

DIGITAL SKILLS

My Digital Skills

Adobe Photoshop, illustrator, AI | NanoScope Analysis | Graph pad for graph analysis | Microsoft Office (Outlook, Excel, Word, PowerPoint) | Origin Software

CONFERENCES & SEMINARS

[26/08/2023 – 28/08/2023] **China Nano 2023** Beijing, China

[17/08/2019 – 19/08/2019] **China Nano 2019**

[08/11/2023] **Gold Nanoparticles in conjunction with delivery methods for labeling intracellular proteins in close to real live condition**
NCNST, Beijing, China

PROJECTS

[10/01/2024 – Current] **DNA template-synthesis of Polydopamine Nanostructures for Light-induced treatment (First Author)**

HONOURS AND AWARDS

Ph.D Scholarship (2019-2024) Awarding institution: Chinese Scholarships Council (CSC)

Masters Scholarship (2017-2019) Awarding institution: Belt and Road Scholarship

Won First Prize in UCAS International Cultural Festival (2019) Awarding institution: UCAS

[15/04/2024] **Won NanoStar Poster Competition Awarding institution:** National Center for Nanoscience and Technology

HOBBIES AND INTERESTS

Snooker

Table Tennis

Watch Documentaries

Hiking

REFERENCES

Prof. Hyungmin Jun

Principal Investigator, Jeonbuk National University
hjun@jbnu.edu

Prof. Dr. Baoquan Ding

National Center for Nanoscience and Technology (NCNST), Beijing, China
dingbq@nanoctr.cn

Associate Prof. Dr. Jianbing Liu

National Center for Nanoscience and Technology (NCNST), Beijing, China
liujb@nanoctr.cn

Dr. Noor Muhammad Butt

Chariman Preston Institute of Nanoscience and Technology (PINSAT), Islamabad, Pakistan
nmbutt36@gmail.com