



Al Shaimaa Hasan

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PERSONAL INFORMATION

- Gender: Female
- Nationality: Egyptian
- Languages: English & Arabic

EDUCATION

2014 - **Doctoral degree in Pharmacology**

2018 Faculty of Medicine, South Valley University, Qena, Egypt and Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan (under the channel system and joint supervision scheme).

- Thesis Title:
- **Assessment of the Cellular and Molecular Mechanisms of Cardiac Stem Cells Therapy for Myocardial Infarction.**

2009 - **Master degree in Pharmacology**

2012 Faculty of Medicine, South Valley University, Qena, Egypt

- Thesis Title:
- **Recent Advances in Antimicrobial Resistance and Antimicrobial Combinations.**

1999 - **MBBCh (Bachelor of Medicine, Bachelor of Surgery)**

2005 Faculty of Medicine, Sohag University, Sohag, Egypt.

- Subjects:
- **Basic Medical Sciences** [3 years]
Human Anatomy; Medical Physiology; Medical Biochemistry and Molecular Biology; Medical Histology; Behavioral Sciences; Medical Pathology; Medical Microbiology and Immunology; Medical Parasitology; Medical Pharmacology.
- **Clinical Medicine** [3 years]
Community Medicine and Public Health; Forensic Medicine and Toxicology; Otolaryngology (ENT); Ophthalmology; Pediatrics (General rotation and elective rotations in nutrition, neonatology, pediatric nephrology, pediatric hematology, pediatric cardiology, and pediatric pulmonology); Obstetrics and Gynecology; Internal Medicine (General rotation and elective rotations in Rheumatology, Psychiatry, Pulmonology, Cardiology, Dermatology, Andrology, Intensive Care, Neurology and Tropical Medicine); Surgery (General Surgery rotation in addition to elective rotations in Cardiothoracic Surgery, Pediatric Surgery, Vascular Surgery, Emergency Surgery, Diagnostic Radiology, Plastic Surgery, Neurosurgery, Anesthesiology, Urological surgery and Orthopedic surgery).

Occupational Background

- May 2018 - Present **Lecturer of Pharmacology**
Department of Pharmacology, Faculty of Medicine, South Valley University, Qena, Egypt.
- 2014 - 2016 **Visiting Scientist**
Department of Stem Cell Biology Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan.
- 2012 - 2014 **Assistant Lecturer of Pharmacology**
Department of Pharmacology, Faculty of Medicine, South Valley University, Qena, Egypt.
- 2009 - 2012 **Demonstrator of Pharmacology**
Department of Pharmacology, Faculty of Medicine, South Valley University, Qena, Egypt.
- 2007 - 2009 **Resident of General Surgery**
Department of General Surgery, Sohag Univ. Hospitals, Sohag, Egypt.
- 2006 - 2007 **Intern**
Sohag Univ. Hospitals, Sohag, Egypt.
- Subjects:
 - **Rotating internship** [1 year]
Two months in each of the following departments (Internal Medicine, Pediatrics, General Surgery, E.N.T, Obstetrics & Gynecology and Anesthesia & Emergency Medicine).
- 2007 - Present **Physician**
Registered as a physician in the Egyptian Ministry of Health.

RESEARCH EXPERIENCE

1. Mouse handling.
2. Harvesting different mice tissues (heart, spleen, liver, bone marrow, popliteal lymph nodes, lung, and uterus).
3. Tissue and cell culture.
4. Culturing different cell lines.
5. Ex vivo expansion of cardiac stem cells from mice atria.
6. Isolation and culture of peritoneal macrophages.
7. Mouse embryonic fibroblasts (MEFs) culture.
8. RNA and DNA extraction (and quantification): from different sources; viruses, bacteria, animal and human (blood, cells and tissues).
9. PCR: semi quantitative RT- PCR, and agarose gel electrophoresis.
10. Developing a murine diabetic model.
11. Preparing sections from different tissues using cryostat and microtome and performing immunofluorescence assay for different cells.

RESEARCH EXPERIENCE

12. Immunohistochemistry and Fluorescence microscopy.
13. Studying various bio-parameters for evaluating radiation-induced injury in cardiac stem cells such as telomerase activity and 53BP1.
14. Masson's trichrome staining.
15. TUNEL assay.
16. ELISA.
17. Image processing with Image J software.
18. Assistant in Mouse Myocardial Infarction Models surgeries.

GRANTS & AWARDS

- 2014 - Scientific Mission to Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan; Awarded by the Egyptian Ministry of Higher Education and Supported by the Egyptian Government According to the Channel System and Joint Supervision Scheme.
- 2016
- 2017 Winning the best publication award, South Valley University, Qena, Egypt.
- 2019 Winning the best publication award, South Valley University, Qena, Egypt.

PROFESSIONAL MEMBERSHIP

- Member of the Institutional Animal Care and Use Committee of South Valley University, Qena, Egypt.
- Director of the Student Assessment Unit, Faculty of Medicine, South Valley University, Qena, Egypt.
- Member at the Quality Assurance Unit, Faculty of Medicine, South Valley University, Qena, Egypt.
- Member of the Curriculum Committee, Faculty of Medicine, South Valley University, Qena, Egypt.
- Academic Advisor for the first year medical Students, Faculty of Medicine, South Valley University, Qena, Egypt.

EDITORIAL EXPERIENCE

- 2018 - Reviewer in Oxidative Medicine and Cellular Longevity.
- Present Reviewer in Current Pharmaceutical Design.
- Reviewer in Environmental Science and Pollution.

ACADEMIC WRITING EXPERIENCE

Excellent in grant writing and writing of scientific publications.

INTERESTS

- Stem Cell Biology and Developmental Biology.
- Cardiovascular, neurodegenerative diseases and cancer.
- Inflammation and Immunomodulation.

TEACHING EXPERIENCE

1. Faculty of Medicine, South Valley University

- Teaching of Pharmacology for up to 300 Medical students, Department of Pharmacology, Faculty of Medicine, South Valley University, Qena, Egypt.
- Teaching of Pharmacology for up to 200 Dental students, Faculty of Dentistry, South Valley University, Qena, Egypt.
- Teaching of Pharmacology for up to 150 students, Faculty of Physical therapy, South Valley University, Qena, Egypt.
- Teaching of Pharmacology for up to 250 Nursing students, Faculty of Nursing, South Valley University, Qena, Egypt.
- Supervision of up to 30 undergraduates in practical laboratory classes, Department of Pharmacology, Faculty of Medicine, South Valley University, Qena, Egypt.
- Supervision of up to 25 undergraduates in practical laboratory classes, Faculty of Dentistry, South Valley University, Qena, Egypt.
- Supervision of 4 postgraduates, Department of Pharmacology, Faculty of Medicine, South Valley University, Qena, Egypt.

2. Department of Stem Cell Biology, Nagasaki University

- Training of a Japanese undergraduate student on Tissue culture, Department of Stem Cell Biology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan.
- Training of an Egyptian postgraduate student on Tissue culture, ELISA, Immunohistochemistry and Fluorescence microscopy, Department of Stem Cell Biology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan.
- Training of a Russian postdoctoral research fellow on Tissue culture, Department of Stem Cell Biology, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan.

INVITED WORKSHOPS AND COURSES

April 2014	WORKSHOP: Animal Handling , Animal Research Center, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan	8 hours
April 2015	WORKSHOP: Basic Radiation Safety in the Laboratory, including practical training for safety handling of radioisotopes , Center of Frontier Life Sciences, Nagasaki University.	10 hours
Dec 2017	WORKSHOP: Basic Life Support Faculty of Medicine, South Valley University, Qena, Egypt.	15 hours
Feb 2018	COURSE: Integrated medical science Faculty of Medicine, South Valley University, Qena, Egypt.	4 hours
March 2018	WORKSHOP: Systematic Reviews and Meta-analysis of Clinical Trials Faculty of Medicine, Suez Canal University, Egypt.	15 hours
Feb 2019	WORKSHOP: The National Academic Reference Standards (NARS) Faculty of Medicine, South Valley University, Qena, Egypt.	30 hours
March 2019	WORKSHOP: Basics of PCR and its applications Department of Microbiology, Faculty of Veterinary Medicine, South Valley University, Qena, Egypt.	30 hours
April 2019	COURSE: Basics of Stem Cells and their therapeutic applications Lecturer and Coordinator, Department of Pharmacology, Faculty of Medicine, South Valley University, Qena, Egypt.	4 hours
May 2019	COURSE: Basics of children's health care Lecturer and Coordinator, Department of Pharmacology, Faculty of Medicine, South Valley University, Qena, Egypt	4 hours

INVITED CONFERENCES AND SEMINARS

2014-2016	SEMINAR: The weekly Stem Cells Journal Club , Stem Cell Biology Department, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan.	1 hour
2014-2016	SEMINAR: The monthly Stem Cells Research Seminar , Stem Cell Biology Department, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan.	1 hour
Dec 2014	SEMINAR: The 28th Seminar of Atomic Bomb Disease Institute Radioisotope Research Center, Nagasaki University School of Medicine, Nagasaki, Japan.	2 hours
Feb 2015	SEMINAR: The 32nd Seminar of Atomic Bomb Disease Institute Nagasaki University School of Medicine, Nagasaki, Japan.	1.5 hours
Jun 2015	SEMINAR: The 42nd Seminar of Atomic Bomb Disease Institute Nagasaki University School of Medicine, Nagasaki, Japan.	2 hours
March 2016	SEMINAR: The 53rd Seminar of Atomic Bomb Disease Institute Nagasaki University School of Medicine, Nagasaki, Japan.	1hour

Nov 2016	SEMINAR: The 69th Seminar of Atomic Bomb Disease Institute Radioisotope Research Center, Nagasaki University School of Medicine, Nagasaki, Japan.	2 hours
Jul 2016	SYMPOSIUM: The 3rd International Symposium for the Promotion of Science and Technology , Innovation Cooperation between Africa and Japan, JICA Research Institute, Tokyo, Japan.	8 hours
Dec 2017	CONFERENCE: The 4th Egyptian Universities Conference for Young Researchers, Updates in Medical Sciences , Faculty of Medicine, South Valley University, Qena, Egypt .	8 hours
Dec 2018	CONFERENCE: The 5th Egyptian Universities Conference for Young Researchers, The Recent Applications in Medical Science , Faculty of Medicine, South Valley University, Qena, Egypt.	8 hours

COMMUNITY SERVICE

- 2009** Participated in preparing **medical convoys to poor rural areas** in Halayeb and Shalateen in the Halayeb Triangle on the African coast of the Red Sea, Egypt. The activity was organized by Faculty of Medicine, South Valley University, Qena, Egypt.
- 2012** **Raising donations** and participated in two **charitable visits** to 57357 children cancer hospital in Cairo, Egypt. The activity was organized by the local Federation of Medical Students Association, South Valley University, Qena, Egypt.
- 2013** Participated in preparing **medical convoys to poor rural areas** in Qena Governorate. The activity was organized the local Federation of Medical Students Association, South Valley University, Qena, Egypt.
- 2017** Participated in preparing **medical convoys to poor rural areas** in Luxor Governorate. The activity was organized the local Federation of Medical Students Association, South Valley University, Qena, Egypt.
- 2019** **Raising donations** and participated in two charitable visits to The Orman cancer hospital in Luxor, Egypt. The activity was organized by the local Federation of Medical Students Association, South Valley University, Qena, Egypt.

LANGUAGE

Arabic (Native).

Academic IELTS: Overall 6, Jun 2018.

SCIENTIFIC PUBLICATIONS

1. **Hasan, AS.**, Luo, L., Yan, C., Zhang, T. X., Urata, Y., et al. (2016). Cardiosphere-derived cells facilitate heart repair by modulating M1/M2 macrophage polarization and neutrophil recruitment. PloS one, 11(10), e0165255.
2. Luo, L., Urata, Y., Yan, C., **Hasan, AS.**, Goto, S., et al. (2016). Radiation exposure decreases the quantity and quality of cardiac stem cells in mice. PloS one, 11(5), e0152179.
3. Luo, L., Nishi, K., Urata, Y., Yan, C., **Hasan, AS.**, et al. (2016). Ionizing Radiation Impairs Endogenous Regeneration of Infarcted Heart: An In Vivo 18F-FDG PET/CT and 99mTc-Tetrofosmin SPECT/CT Study in Mice. Radiation research, 187(1), 89-97.
4. Luo, L., Urata, Y., Yan, C., **Hasan, AS.**, Goto, S., et al. (2017). Dose-dependency and reversibility of radiation-induced injury in cardiac explant-derived cells of mice. Scientific reports, 7.
5. El-Sayed M., El-Feky MA., El-Amir MI., **Hasan AS.**, et al. (2019). Immunomodulatory effect of mesenchymal stem cells: Cell origin and cell quality variations. Mol Biol Rep. doi: 10.1007/s11033-018-04582-w.

REFERENCES

1. Dr. Tao-Sheng Li, MD, PhD

Professor and Chairman

Department of Stem Cell Biology, Nagasaki University Graduate School of Biomedical Science, Nagasaki, Japan.

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2. Dr. Mohamed Abdel-Daim, PhD

Associate professor of Pharmacology, Department of Pharmacology and Toxicology, Suez Canal University, Egypt.

Department of Ophthalmology and Micro-Technology, Yokohama City University, Yokohama, Japan.

Email: abdeldaim.m@vet.suez.edu.eg

3. Dr. Ke Cheng, PhD

Associate Professor of Regenerative Medicine, North Carolina State University, USA.

E-mail: ke_cheng@ncsu.edu/ ke_cheng@unc.edu

4. Dr. Shinji Goto, MD, PhD

Assistant Professor,

Department of Stem Cell Biology, Nagasaki University Graduate School of Biomedical Science, Nagasaki, Japan.

E-mail: sgoto@nagasaki-u.ac.jp

5. Dr. Yoshishige Urata, PhD

Assistant Professor,

Department of Stem Cell Biology, Nagasaki University Graduate School of Biomedical Science, Nagasaki, Japan.