Dina Mostafa Abdel Azim Mostafa

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Work Experience

- **Researcher and Lecturer of Biochemistry and Molecular Biology** [07/2020 – 12/2021]
  Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
  - Courses: Biochemistry, Clinical Biochemistry and Molecular Biology.
  - Responsibilities: Teaching theoretical part and developing assignments and exam questions for BSc. and MSc. students.
  - Supervising a MSc. student graduation project in natural killer cell dysfunction in breast cancer.
- **Junior research fellow** [03/2020 – 07/2020]
  Cell Signal Unit, Okinawa Institute of Science and Technology Graduate University, Okinawa, Japan
  - Studied posttranscriptional regulation in pancreatic β cell function using conditional knockout mouse models and MIN6 β cell line. Supervisor: Prof. Tadashi Yamamoto
  -Wrote and edited manuscripts and posters.
- **Graduate student and research assistant** [01/2015 – 02/2020]
  Cell Signal Unit, Okinawa Institute of Science and Technology Graduate University, Okinawa, Japan
  - Studied posttranscriptional regulation in pancreatic β cell function using conditional knockout mouse models and MIN6 β cell line. Supervisor: Prof. Tadashi Yamamoto
- **Assistant Lecturer of Biochemistry and Molecular Biology** [03/2014 – 12/2014]
  Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
  - Courses: Biochemistry, Clinical Biochemistry and Molecular Biology.
  - Responsibilities: Teaching practical part, curriculum setting, updating practical notes, developing assignments and exam questions for BSc. students.
- **Teaching Assistant of Biochemistry and Molecular Biology** [05/2009 – 02/2014]
  Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
  - Courses: Biochemistry, Clinical Biochemistry and Molecular biology.
  - Responsibilities: Teaching practical part, updating practical notes, developing assignments and exam questions for BSc. students.
- **Research intern** **[**Summer, 2013]
  Children's Cancer Hospital 57357, Cairo, Egypt
  - Received training on cell culturing techniques and establishing cancer cell lines from tumors cultures. Supervisor: Prof. Shahenda El- Naggar
- **Research intern** **[**Summer, 2011]
  Department of Pharmacology, Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
  - Participated in a research project testing the antidiabetic effect of some plants extracts on mice. Supervisor: Prof. Ashraf Bahei

Education

- **Ph.D. Molecular Cell Biology** **[**Jan. 2015- Feb. 2020]
  Okinawa Institute of Science and Technology Graduate University, Okinawa, Japan
  Thesis: Functional analysis of CCR4-NOT complex in pancreatic β cells
- **M.Sc. Pharmaceutical Sciences (Biochemistry)** [Mar. 2011- Dec. 2013]
  Faculty of Pharmacy, Ain Shams University, Cairo, Egypt
  Thesis: Role of Granzyme B in obesity and type 2 diabetes patients
- **B.Sc. Pharmaceutical Sciences**
  Faculty of Pharmacy, Ain Shams University, Cairo, Egypt [Sept. 2003- May 2008]
  Grade: Excellent with honor

Research skills

- Cell culturing techniques
- Molecular biology techniques (Western blotting, RNA/DNA extraction, quantification, and quality control, Polymerase chain reactions, Cloning, Mass spectrometry,..etc)
- Animal experiments
- Imaging (confocal and transmission electron microscopy)
- RNA sequencing data analysis.
- Islets Biology
- Soft skills (R, SPSS, EndNote citation manager, Graphpad prism, Adobe illustrator, Physiodesigner)

Publications

- **Dina Mostafa**, Akiko Yanagiya, Eleni Georgiadou, Yibo Wu, Theodoros Stylianides, Guy A. Rutter, Toru Suzuki and Tadashi Yamamoto. "Loss of β-cell identity and diabetic phenotype in mice caused by disruption of CNOT3-dependent mRNA deadenylation". Communications Biology, 2020. 3(1): p. 476.
  DOI: 10.1038/s42003-020-01201-y
- **Dina Mostafa**, Akinori Takahashi, Akiko Yanagiya, Tomokazu Yamaguchi, Takaya Abe, Taku Kureha, Keiji Kuba, Yumi Kanegae, Yasuhide Furuta, Tadashi Yamamoto and Toru Suzuki." Essential functions of the CNOT7/8 catalytic subunits of the CCR4-NOT complex in mRNA regulation and cell viability". RNA Biology, 2020. 17(3): p. 403-416.
  DOI: 10.1080/15476286.2019.1709747
- Hala O El-Mesallamy, Nadia M Hamdy, ***Dina M Mostafa**, Ashraf I Amin. "The Serine Protease Granzyme B as an Inflammatory Marker, in Relation to the Insulin Receptor Cleavage in Human Obesity and Type 2 Diabetes Mellitus". Journal of Interferon and Cytokine Research, 2014. 34(3): p. 179-186. (*Corresponding author)
  DOI: 10.1089/jir.2013.0059

Conferences

Oral presentations:

- **Dina Mostafa**, Akinori Takahashi and Tadashi Yamamoto
  "Post-transcriptional Regulation of *Slc16a1* mRNA is Essential for Maintaining Normal β-cell Function". **American Diabetes Association** 79th Annual Meeting, **San Francisco, USA.** 7-11st June 2019.
- **Dina Mostafa**, Akinori Takahashi, Akiko Yanagiya and Tadashi Yamamoto
  "The CCR4-NOT Complex Maintains ß-Cell Identity through the Repression of ß-Cell Disallowed Genes". **CCR4-NOT Biology** 6th Annual Meeting, Kendai University, **Osaka, Japan**. 12-14th May 2018.
- **Dina Mostafa**, Akinori Takahashi, Taku Kureha, Toru Suzuki and Tadashi Yamamoto
  "The role of the enzymatic subunits of CCR4-NOT complex in mRNA deadenylation and cell viability". **Molecular Biology Society of Japan** 40th Annual Meeting, ConBio2017**, Kobe, Japan**. 6-9th December 2017.

Poster presentations:

- **Dina Mostafa**, Akiko Yanagiya, Eleni Georgiadou, Yibo Wu, Theodoros Stylianides, Guy Rutter, Toru Suzuki, Tadashi Yamamoto "The CCR4-NOT deadenylase complex controls pancreatic β cell maturation and identity by suppressing β cell disallowed genes". Keystone symposium: Islets biology, **Santa Fe, New Mexico, USA.** 27th-31st January 2020.
- **Dina Mostafa**, Akinori Takahashi, Akiko Yanagiya and Tadashi Yamamoto
  "The CCR4-NOT Complex Maintains ß-Cell Identity through the Repression of ß-Cell Disallowed Genes". **American Diabetes Association** 78th Annual Meeting, **Florida, USA.** 22-26th June 2018.
- **Dina Mostafa** and Tadashi Yamamoto
  "CNOT3 Knockdown Alters Insulin Secretion and Global Gene Expression in Pancreatic β-cells". **Cutting Edge Developments in RNA Biology for the Control of Gene Expression**, OIST Graduate University, **Okinawa, Japan**. 13-17th November 2017.
- **Dina Mostafa**, Akinori Takahashi, Taku Kureha, Toru Suzuki and Tadashi Yamamoto
  "The role of the enzymatic subunits of CCR4-NOT complex in mRNA deadenylation and cell viability" **East Asia Joint Symposium of Biomedical Sciences**, **Taipei, Taiwan**. 18-20th October 2016.

Honors and Awards

- Awarded a five-years PhD scholarship (2015-2019) from OIST Graduate University.
- Received a prize from the Pharmacy syndicate, Cairo, Egypt for being among the top 10 of Faculty of pharmacy graduates in 2008.
- Awarded a teaching assistant and M.Sc. degree fellowship in School of Pharmacy, Ain Shams University, Cairo, Egypt.

Outreach Experience

- Organizer and mentor of OIST science mentoring program
  [OIST Graduate University, Okinawa, Japan, 08/2015 – 08/2018]
- Volunteer in OIST annual science festival
  [OIST Graduate University, Okinawa, Japan, 11/2015 – 11/2018]
- Teacher in OIST summer school of science
  [OIST Graduate University, Okinawa, Japan, 08/2017 – 08/2017]
- Laboratory volunteer/ trainee
  [Children's Cancer Hospital 57357, Cairo, Egypt, 06/2013 – 08/2013]
- Science teacher
  [Educational NGO, Cairo, Egypt, 06/2012 – 08/2012]
- Judge for high school students science projects competition
  [Ain Shams University science festival, Cairo, Egypt, 07/2011 – 07/2011]
- Laboratory volunteer
  [Faculty of pharmacy medical caravan, Ain Shams University, Cairo, Egypt , 08/2009 – 08/2009]

Language Skills

- Arabic: Mother Tongue
- English: Fluent
- French: Conversational
- Japanese: Conversational
- Dutch: Beginner

References

- **Prof. Tadashi Yamamoto**
  Cell Signal unit, OIST Graduate University, Okinawa, Japan
  Tadashi.yamamoto@oist.jp
- **Dr. Patrick Stoney**
  Cell Signal unit, OIST Graduate University, Okinawa, Japan
  Patrick.stoney@oist.jp
- **Prof. Nicholas M. Luscombe**
  Genomics and Regulatory Systems Unit, Okinawa, Japan
  Nicholas.luscombe@oist.jp