

CONTACT INFORMATION Email: alaa_elgaabari@vet.kfs.edu.eg

Address: Physiology Department, Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt

Phone: +20 01069817971 Nationality: Egyptian Social links, website: https://www.researchgate.net/profile/Alaa-Elgaabari

Lecturer

Kafrelsheikh, Egypt

EXPERIENCE

Department of Physiology Faculty of Veterinary Medicine, Kafrelsheikh University

Fukuoka, Japan Postdoctoral research fellow

Oct 2022 - Oct 2024 Department of Animal and Marine Bioresource Sciences, Graduate School of Bioresource and Bioenvironmental Sciences, Kyushu University

Kafrelsheikh, Egypt **Assistant lecturer**

Sep 2016 - Nov 2024 Department of Physiology Faculty of Veterinary Medicine, Kafrelsheikh University

Kafrelsheikh, Egypt Jun 2013 - Sep 2016 Department of Physiology Faculty of Veterinary Medicine, Kafrelsheikh University

Banha, Egypt **Veterinarian**

Nov 2012 - Jun 2013 Animal Health Research Institute

EDUCATION

Doctor of Philosophy Ph.D Oct 2019 - Sep 2022 Graduate School of Bioresource and Bioenvironmental Sciences, Kyushu University

Research student Fukuoka, Japan Graduate School of Bioresource and Bioenvironmental Sciences, Kyushu University Apr 2019 - Oct 2019

Kafrelsheikh, Egypt Master of veterinary science M.V.Sc Sep 2013 - Aug 2016 Faculty of Veterinary Medicine, Kafrelsheikh University

Kafrelsheikh, Egypt

Bachelor of veterinary science B.V.Sc Sep 2006 - Jun 2011 Faculty of Veterinary Medicine, Kafrelsheikh University

Arabic

SKILLS LANGUAGES

first- and second-year students.

Cell culture

Epigenetics

HPLC

· Lecturer, Physiology Courses: Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt

(Present). Teaching physiology courses for first- and second-year veterinary medicine students. Teaching Assistant, Practical Physiology Courses: Faculty of Veterinary Medicine, Kafrelsheikh University, Egypt (2013-2019). Assisted in practical course delivery and summer training programs for

Practical Assistant: Muscle & Meat Science LaboratoryGraduate School of Bioresource and Bioenvironmental Sciences, Kyushu University, Japan (2022-2024). Provided practical support in laboratory activities and research training programs for undergraduate and master's students.

 JSPS post-doctor fellowship (standard program) at Muscle & Meat Sci. Lab., Department of Animal and Marine Bioresource Sciences, Graduate School of Bioresource and Bioenvironmental Sciences,

 Full Ph.D. scholarship (Egypt-Japan Education Partnership) at Muscle & Meat Sci. Lab., Department of Animal and Marine Bioresource Sciences, Graduate School of Bioresource and Bioenvironmental

Research exchange training (Egypt-Japan Education Partnership) at Muscle & Meat Sci. Lab., Department of Animal and Marine Bioresource Sciences, Graduate School of Bioresource and Bioenvironmental Sciences, Kyushu University, Japan. From April 2019 to September 2019.

· Postnatal Muscle Growth and Regeneration: Investigating the cellular and molecular mechanisms

Stem Cell Biology: Examining the activation, quiescence, and self-renewal dynamics of muscle stem

Post-Translational Protein Modifications: Studying how modifications like nitration affect satellite

· Inflammatory Response in Muscle Repair: Investigating the role of inflammation in muscle recovery

Nutritional Influences on Muscle Development: Understanding the impact of nutrition on muscle

Magnetic cell sorting

Immunofluorescence Microscopy

English

Cell migration Flow cytometry

ELISA

Western blotting

Advanced

Gene Expression (PCR and qPCR) Statistics and Data Analysis

German Elementary

MENTORSHIP

SCHOLARSHIPS

that regulate muscle repair, maintenance, and regeneration, including the role of muscle stem cells in muscle fiber type regulation. Sarcopenia and Age-Related Muscle Atrophy: Identifying the biological factors contributing to muscle degeneration in aging populations and understanding the decline in regenerative capacity in aged muscles.

growth, repair, and regeneration. **Epigenetics and Omics Approaches**: Utilizing epigenetic and omics technologies to explore muscle disorders and identify novel therapeutic targets. Regenerative Therapies: Developing strategies to address muscle degeneration, stimulate muscle repair, and promote hypertrophy, with a focus on regenerative therapies for both human and veterinary clinical settings, particularly in response to aging and injury.

activator HGF. Aging Cell, 2024 https://doi.org/10.1111/acel.14041

4. "Tii scientific life", https://medibio.tiisys.com/119181/

5. "Scientific laboratory" https://lib.rikelab.jp/

and regeneration processes.

cells (satellite cells) and their critical role in maintaining muscle health.

cell function, muscle regeneration, and contribute to age-related muscle atrophy.

Kyushu University, Japan. From October 2022 to October 2024.

Sciences, Kyushu University, Japan. From October 2019 to September 2022.

Osaki, Kazuki Shitamitsu, Kaoru Mizoguchi, Tomoki Ushijima, Takahiro Maeno, Takashi Nakashima, Takahiro Suzuki, Mako Nakamura, Judy E. Anderson, Ryuichi Tatsumi. In vitro immuno-prevention of nitration/dysfunction of myogenic stem cell activator HGF, towards developing a strategy for agerelated muscle atrophy. Aging Cell, 2024 https://doi.org/10.1111/acel.14337

Anderson, Ronald E. Allen, Ryuichi Tatsumi. Age-related nitration/dysfunction of myogenic stem cell

academia and showing its relevance within both scientific and societal spheres:

1. "Kagakushinbun (科学新聞)", 第面, https://sci-news.co.jp/topics/8207/ 2. "Science Japan", https://sj.jst.go.jp/news/202312/n1220-02k.html

· Graphical abstract was chosen for Journal Cover Vol. 23, issue 2, 2024 https://doi.org/10.1111/acel.14117 This paper was featured in several Japanese social magazines highlighting its wider impact beyond

Sakiho Tanaka, Alaa Elgaabari, Miyumi Seki, So Kuwakado, Kahona Zushi, Junri Miyamoto, Shoko Sawano, Wataru Mizunoya, Kenshiro Ehara, Naruha Watanabe, Yohei Ogawa, Hikaru Imakyure, Reina Fujimaru, Rika

CONFERENCES &

PRESENTATIONS

PUBLICATIONS

6. "Tokyo Metropolitan Institute of Medical Science (TMiMS) News", https://www.igakuken.or.jp/rinfo/covid-19-info192.html#r19 Alaa Elgaabari, Nana Imatomi, Hirochika Kido, Miyumi Seki, Sakiho Tanaka, Yuji Matsuyoshi, Takashi Nakashima, Shoko Sawano, Wataru Mizunoy, Takahiro Suzuki, Mako Nakamura, Judy E. Anderson, Ryuichi Tatsumi. A pilot study on nitration/dysfunction of NK1 segment of myogenic stem cell activator HGF.

<u>aa Elgaabari</u>, Atsuko Miyawaki-Kuwakado, Kosuke Tomimatsu, Qianmei Wu, Kosuke Tokunaga, Wakana Izumi, Takahiro Suzuki, Ryuichi Tatsumi, Mako Nakamura. Epigenetic effects induced by the ectopic expression of Pax7 in 3T3-L1. The Journal of Biochemistry, 2021. https://doi.org/10.1093/jb/mvab030

3. "The Journal of Pharmaceutical Business", https://iyakukeizai.com/iyakukeizaiweb/detail/178303

1. 132nd Annual Meeting of the Society of Japan and Animal Science, Kyoto, Japan, September

Alaa Magdy Elgaabary. Shawky Mahmoud, Michel Fahmy Saad, Ahmed Abdel Azeez Abdel Rahman. Potassium Permanganate Alleviates the Potential Effect of Estrogenic Pollutants on Vitellogenin

Gene Expression in Male Oreochromis Niloticus. World's Veterinary Journal, 2016.

Rvuichi Tatsumi. 3. Skeletal Muscle Stem Cells in Development, Regenerations & Adaptations, Estérel, Quebec,

Authors: Alaa Elgaabari, Junri Miyamoto, Takahiro Maeno, Kahona Zushi, Mako Nakamura, Takahiro Suzuki,

4. 7th Autumn Meeting of the Japan Society of Rehabilitation Medicine, Miyazaki, Japan, November

6. 131st Annual Meeting of the Japanese Society of Animal Science, Hokkaido, Japan, September 2023, Poster Presentation

5. 9th Annual Meeting of the Japan Muscle Society, Osaka, Japan, August 2023, Oral Presentation

Authors: Alaa Elgaabari, Sakiho Tanaka, Kahona Zushi, So Kuwakado, Miyumi Seki, Takahiro Suzuki, Mako

Authors: Sakiho Tanaka, Alaa Elgaabari, Miyumi Seki, So Kuwakado, Kahona Zushi, Junri Miyamoto, Shoko Sawano, Wataru Mizunoya, Kenshiro Ehara, Takahiro Maeno, Takashi Nakashima, Takahiro Suzuki, Mako

Biology Organization (EMBO) Online Meeting December 2021, E-Poster Presentation Authors: Alaa Elgaabari, Nana Imatomi, Hirochika Kido, Yuji Matsuyoshi, Takashi Nakashima, Shoko Sawano, Wataru Mizunoya, Takahiro Suzuki, Mako Nakamura, Ryuichi Tatsumi.

9. 7th Annual Meeting of the Japan Muscle Society, Kyoto University, Kyoto, Japan, December 1112,

satellite cell culture. Authors: Kenshiro Ehara, Yuji Matsuyoshi, Alaa Elgaabari, Mako Nakamura,

1. Kafrelsheikh University Award for International Scientific Publication, 2023.

3. Travel award from The Society for Muscle Biology "Skeletal Muscle Stem Cells in Development

HGF

· JSPS research foundation for a project titled "Identification of the gene: Inhibition of nitration of agerelated muscle stem cell activator HGF", Japan 2022-2023. https://kaken.nii.ac.jp/grant/KAKENHI-

· The Ito foundation for a project titled "Breaking-through the heat stress-induced suppression of postnatal muscle growth: possible implication of nitration of myogenic stem cell activation factor HGF"

· The Ito foundation for a project titled "Breaking-through the heat stress-induced suppression of postnatal muscle growth: possible implication of nitration of myogenic stem cell activation factor HGF"

A member of KUFSA (Kyushu University Foreign Students Association from April 2019 to 2024.

Support Unit at my alma mater, Kafrelsheikh University, Egypt. November 25, 2024

· A member of The Student Committee for Internationalization of Kyushu University (SCIKyu), from 2022

· Speaker at the "How to Apply for an International Scholarship" symposium, organized by the Scholars

· "Increasing Awareness and Understanding of Duchenne Muscular Dystrophy" course, hosted by

· Intensive reproductive and embryo biotechnologies, Graduate School of Agriculture Kyushu University,

· Sustainable meat and food production and consumption around the World, faculty of co-creation,

· A guest speaker at the online career talk event held by International Student Supporters (Kyurious) in collaboration with the International Student Exchange Section, Faculty of Agriculture, Kyushu

NEWGIZA University, Egypt in collaboration with Myo-care Foundation. 10-13 November 2024

and

sarcopenia",

Japan

10. 128th Annual Meeting of the Japanese Society of Animal Science, Kyushu University, Japan,

Authors: Alaa Elgaabari, Nana Imatomi, Hirochika Kido, Yuji Matsuyoshi, Takashi Nakashima, Shoko Sawano,

MEMBERSHIPS

RESEARCH FOUNDATION

AWARDS

University, March 15, 2022. Joined in "Oral presentation online workshop" that was held on March 21, 2022, by Kyushu University Gender Equality Office.

Contributions to the Kyushu University Promotion and other programs:

Network Project in the Middle East & North Africa) aims to double the number of students from MENA region in 5 years ahead in collaboration with the Faculty of Agriculture, Kyushu University that runs the project funded by the Japanese government. The video was published on April 11, 2022. https://www.youtube.com/watch?v=eGeDk0a34d 2. I was selected to represent the international student voice on the official website of the Faculty of

Agriculture, Kyushu University. June 2022 till now http://www.agr.kyushu-u.ac.jp/english/lp/2022/ 3. I Joined in The Tandem Learning Program which offers Kyushu University students the opportunity to

1. I was selected to make a video introducing IGP course with J-MENA office (Study in Japan Global

1. Ryuichi TATSUMI, Ph.D. Professor, Muscle & Meat Sci. Lab., Department of Animal and Marine

Bioresource Sciences, Graduate School of Agriculture, Kyushu University, Fukuoka, Japan.

Email: rtatsumi@agr.kyushu-u.ac.jp 2. Mako Nakamura, Ph.D. professor (Ms.), Faculty of Agriculture, Kyushu University Rm.460, West Zone 5,

TEL. +81 (code for Japan) 92-802-4593

Agriculture, Kyushu University, Department of Animal and Marine Biology Department Animal Chemistry

Laboratory Animal Chemistry 744 Motooka, Nishi-ku, Fukuoka 819-0395, Fukuoka 5, Fukuoka, Japan, TEL/FAX: +81-92-802-4592

Email: tsuzuki@agr.kyushu-u.ac.jp

Nov 2024 - Present

Fukuoka, Japan

Native

Japanese Elementary **TEACHING AND**

RESEARCH INTEREST

Alaa Elgaabari, Nana Imatomi, Hirochika Kido, Takashi Nakashima, Shoko Okuda, Yoshitaka Manabe, Shoko Sawano, Wataru Mizunoya, Ryuki Kaneko, Sakiho Tanaka, Takahiro Maeno, Yuji Matsuyoshi, Miyumi Seki, So Kuwakado, Kahona Zushi, Nasibeh Daneshvar, Mako Nakamura, Takahiro Suzuki, Kenji Sunagawa, Judy E.

Biochemistry and Biophysics Reports, 2022. https://doi.org/10.1016/j.bbrep.2022.101295

Authors: Zushi Kahona, Seki Miyumi, Sitamitsu Kazuki, Alaa Elgaabari, Tanaka Sakiho, Miyamoto Junri, Sawano Syoko, Mizunoya Wataru, Suzuki Takahiro, Tatsumi Ryuichi. 2. Joint Conference of AOMC and JMS (AOMC-JMS 2024), Nara, Japan, September 2024, Oral Presentation, Young Investigator Award Session Authors: Alaa Elgaabari, Junri Miyamoto, Takahiro Maeno, Kahona Zushi, Mako Nakamura, Takahiro Suzuki,

2024, Oral Presentation

Canada, July 2024, Poster Presentation

Judy E. Anderson, Ryuichi Tatsumi.

Nakamura, Ryuichi Tatsumi.

Nakamura, Ryuichi Tatsumi.

2023, Poster Presentation (Best Presentation Prize) Authors: So Kuwakado, Alaa Elgaabari, Takahiro Suzuki, Kenichi Kawashima, Yasuharu Nakashima, Ryuichi Tatsumi.

7. 130th Annual Meeting of the Japanese Society of Animal Science, Tokyo University of Agriculture, Tokyo, Japan, September 2022, Poster Presentation Authors: Miyumi Seki, Alaa Elgaabari, Sakiho Tanaka, Shoko Sawano, Wataru Mizunoya, Yuji Matsuyoshi, Takahiro Suzuki, Mako Nakamura, Ryuichi Tatsumi. 8. Cell Bio Virtual 2021 (American Society for Cell Biology (ASCB) and the European Molecular

· Insight linking between nitration and myogenic dysfunction of HGF/NK1 domain, poster presentation. Authors: Alaa Elgaabari, Nana Imatomi, Hirochika Kido, Yuji Matsuyoshi, Takashi Nakashima, Shoko Sawano, Wataru Mizunoya, Takahiro Suzuki, Mako Nakamura, Ryuichi Tatsumi. Nitration/dysfunction of myogenic stem cell activator HGF: age-related event predominant in fast llx, lla myofiber ECM, Oral Presentation (*equal contribution). Authors: Ryuichi Tatsumi*, Alaa Elgaabari*, Nana Imatomi*, et al. · Toward establishing quiescent/dormant myogenic stem satellite cell cultures, Poster Presentation on

2021, Hybrid Conference:

Takahiro Suzuki, Ryuichi Tatsumi.

Wataru Mizunoya, Takahiro Suzuki, Mako Nakamura, Ryuichi Tatsumi.

cell

· A member of the JSPS Alumni Association in Egypt.

· A member of the Japan Muscle Society.

Japan,18 May- 8 June 2022.

Kyushu University, Japan, March 2022.

stem

PROJECT-22F22389/

(part 2), Japan, 2021.

(part 1), Japan, 2020.

to 2024.

2. Kafrelsheikh University Award for International Scientific Publication, 2024.

activator

March 2021, Poster Presentation

Regenerations & Adaptations" conference July 2024, Quebec, Canada. · JSPS research foundation for a project titled "Identification of putative genes to prevent nitration of https://kaken.nii.ac.jp/grant/KAKENHI-PROJECT-23KF0153/

WORKSHOPS

REFERENCES

ACTIVATES

enhance their language abilities and culture exchange with the help of a Tandem Partner. August 2019 to August 2020 **Contributions to Social Volunteering Association:** 1. I was a volunteer at the Children Disaster Prevention Association in August 2022, Japan 2. I was a volunteer at the Children Disaster Prevention Association from December 2023, Japan.

744 Motooka Nishii-Ku, Fukuoka-City, Fukuoka 819-0395 JAPAN TEL/FAX: +81-92-802-4761 Email: mako_n@makonakamura.net 3. Takahiro Suzuki, Ph.D. Associate Professor, Department of Natural and Biological Sciences, Faculty of