



CURRICULUM VITAE

Personal information

- 1. Name:** Ahmed Mohamed El Sayed Rashwan
- 2. Date of Birth:** 11 November 1984
- 3. Nationality:** Egyptian
- 4. Current Appointment:** Associate professor at Department of Anatomy and Embryology, Faculty of Veterinary Medicine, Damanhour University, Damanhour 22511, Behera, Egypt.



5. Academic Degree:

PhD in Veterinary Anatomy and Embryology (2017).

Damanhour University, Faculty of Veterinary Medicine, Egypt through a two-year Joint fellowship from the Ministry of Higher Education (Egypt) to conduct my PhD practical work at the Graduate school of medicine, Department of Neuroscience, Nagoya University, Nagoya, Japan (2014-2016).

- 6. Contact: Email:** dr_rashwan84@vetmed.dmu.edu.eg, Ahmed.rashwan@cira.kyoto-u.ac.jp, dr_rashwan84@yahoo.com

Tel: (+2) 01224360048, (+2) 035223546

Fax: 02035227232

7. Education History

Institution	Location	Degree	Field	Completion Date
Faculty of Veterinary Medicine	Alexandria, Egypt	Bachelor of Veterinary Science (B.V.Sc.)	Veterinary Science	May-2007
Faculty of Veterinary Medicine	Damanhour, Egypt	Master of Veterinary Science (M.V.Sc.)	Veterinary Anatomy and Embryology	October-2011
Graduate School of Medicine, Nagoya University & Faculty of Veterinary Medicine, Damanhour University	Nagoya, Japan & Damanhour, Egypt	Doctor of Philosophy (Ph.D.)	Veterinary Anatomy and Embryology	May-2017



8. Employment history

Name of Institution	Location	Position	From – To
Faculty of Veterinary Medicine, Damanhour University	Damanhour, Egypt	Demonstrator of Anatomy & Embryology	April 18, 2008 – December 3, 2011
Faculty of Veterinary Medicine, Damanhour University	Damanhour, Egypt	Assistant Lecturer of Anatomy & Embryology	December 4, 2011 – May 24, 2017
Graduate School of Medicine, Functional Anatomy and Neuroscience, Nagoya University	Nagoya, Japan	Visiting Researcher	January 6, 2014 – January 6, 2016
Faculty of Veterinary Medicine, Damanhour University	Damanhour, Egypt	Lecturer of Anatomy & Embryology	May 25, 2017 – March 27, 2023
Center for iPS Cell Research and Application (CiRA), Kyoto University	Kyoto, Japan	Postdoctoral Researcher	December 12, 2019 – August 31, 2023
Center for iPS Cell Research and Application (CiRA), Kyoto University	Kyoto, Japan	JSPS Postdoctoral Research Fellow	September 1, 2023 – May 31, 2025
Faculty of Veterinary Medicine, Damanhour University	Damanhour, Egypt	Associate Professor of Anatomy & Embryology	March 28, 2023 – Present

9. Duties:

A. Undergraduate Teaching

- Delivered courses in veterinary anatomy and embryology.
- Covered the following teaching areas:
 - General and systematic anatomy of domestic animals
 - Comparative anatomy
 - Applied anatomy of equines, ruminants, and dogs
 - General and systematic embryology
- Applied a variety of teaching methods, including:
 - Lectures
 - Practical sessions
 - Group discussions



- Student-led dissections
- Case-based learning
- Engaged students through:
 - Reports
 - Posters
 - Presentations
 - Independent learning using web-based and multimedia resources

B. Teaching Contributions and Academic Activities

- Contributed to curriculum development and syllabus design for:
 - Anatomy
 - Embryology
 - Applied anatomy courses
- Prepared course materials and notes for undergraduate levels:
 - Year 1
 - Year 2
 - Year 4
- Developed electronic examinations to enhance assessment and learning.
- Conducted student evaluations.
- Provided academic advising and support through regular consultations .

C. Postgraduate Teaching

- Taught postgraduate students at different levels:
 - Diploma
 - Master's
 - Doctoral
- Subjects taught:
 - Anatomy
 - Embryology
 - Applied anatomy
- Participated in postgraduate curriculum development.
- Involved in assessment and evaluation of postgraduate students.



D. Additional Academic Responsibilities

- Served as an external examiner at various Faculties of Veterinary Medicine in Egypt.
- Participated in student training programs.
- Supervised summer training activities.

10. Awards

- **JSPS Postdoctoral Research Fellowship Award**
 - Awarded by the Japan Society for the Promotion of Science (JSPS), 2023.
- **Government Scholarship for PhD Research in Japan**
 - Awarded by the Egyptian Ministry of Higher Education.
 - Conducted joint PhD research at Nagoya University, Japan, 2014.
- **Best Poster Presentation**
 - CiRA Retreat, Center for iPS Cell Research and Application, Kyoto University, Japan, 2023.
- **Best Poster and Oral Presentations**
 - CiRA Symposium, Center for iPS Cell Research and Application, Kyoto University, Japan, 2025.
- **Best Oral Presentation**
 - Japanese Society for Anatomists Meeting, Japan, 2014.

11. Conference Organization and Committee Membership

- Member of the organizing committee for CiRA Retreat, Kyoto University, Japan (2022, 2023, 2024).
- Served as session chairperson and moderator at academic conferences and symposia at CiRA, Kyoto University, Japan.

12. Scientific Peer Reviewing

- Reviewer for international journals, including:
 - *Anatomia, Histologia, Embryologia*
 - *Microscopy Research and Technique*
 - *Microscopy and Microanalysis*
 - *Tissue and Cell*



- *BMC Veterinary Research*
- *BMC zoology*
- Evaluator of student poster abstracts at academic conferences

13. Supervision and Mentoring

- Supervised doctoral students in practical training and research projects in veterinary anatomy and embryology
- Mentored junior researchers and demonstrators at the Department of Anatomy and Embryology, Damanhour University

14. Workshop Participation and Facilitation

- Attended and assisted in workshops on:
 - Scanning electron microscopy (SEM)
 - Transmission electron microscopy (TEM)
 - Microtomy
 - Digital imaging
 - Anatomical dissection and histological techniques
- Technical expertise includes:
 - FACS analysis for stem cells
 - Confocal microscopy
 - RNA sequencing

15. Public Outreach and Science Communication

- Delivered public awareness lectures in schools and universities on diabetes as part of international science communication initiatives.
- Participated in “Science Day” events at Nagoya University to promote neuroscience and anatomy research.

16. Patents

- **Patent Application No.: 特願2024-104475**
 - Title: Method for producing pancreatic β -cells.
 - Inventors: Ahmed Rashwan, Kenichiro Furuyama, Yoshiya Kawaguchi



- Date: 27 June 2024.
- Description: Patent application submitted for the use of a confidential drug in the differentiation of induced pluripotent stem cells (iPSCs) into pancreatic β -cells.

17. Training

A. Enhancement of academic skills

	Training course on	In the period of
1.	Electronic examination	17-18 October 2025
2.	Executive Leadership Development	11-12 October 2025
3.	Leadership and Strategic Thinking	10-11 October 2025
4.	University Laws and Regulations	3-4 October 2025
5.	Research team management	22-23 February 2021 (online)
6.	Competing for Research Funds	10-11 February 2021 (online)
7.	University management	27-28 June 2020 (online)
8.	Quality Standards In The Education process	18-19 July 2020 (online)
9.	Research references management systems	23-24 September 2020 (online)
10.	Adopting An Academic Program	24-25 October 2018
11.	E-learning	27-28 August 2018
12.	Research Ethics	22-23 October 2011
13.	Research Methods Use of technology in teaching	27-29 September 2011
14.	Effective Teaching	20-22 September 2011
15.	University code of Ethics	2 -4 February 2010
16.	The organization of conference	31 August till 2 September 2009
17.	Credit hour system Effective Presentation Skills	25-27 July 2009
18.	Effective Presentation Skills Competing for Research Funds	18-20 July 2009
19.	Legal and Financial Aspects in University Environment.	12-13 Dec. 2008



20.	Examination system and evaluation of student	18-20 November 2008
21.	Communication Skills	7 -9 July. 2008

These training courses completed in **Faculty and Leadership Development Center (FLDC) Alexandria University & Damanhour University** Certified by International Board of Certified Trainers- European Division (IBCT).

B. Enhancement of Technical skills

Training attended / Technical skills	acquired Place	Dates (from-to)
FV3000 Confocal Microscope operation	CiRA, Kyoto university	6-7-2022
Education and training For CiRA animal Research Facility	Kyoto University	27-4-2022
Course on application of (qPCR)	CiRA, Kyoto University	1-2-2021
Course on RNA sequencing	CIRA, Kyoto University	12 -10-2020
FACS (flow cytometry) Analysis	BD Bioscience, Kyoto university	27-28/8/2020
Confocal Microscope training	Graduate school of Medicine, Nagoya University	May 2014
Fluorescent microscope and Immunostaining	Graduate school of Medicine, Nagoya University	March 2014



18. Language:

1. Mother language: Arabic
2. English
 1. **International TOEFL:** 25/1/2018 (Score: **95/120**), 21/4/2014 (Score: **90/120**)
 2. **TOEFL** Course and passed the final exam on 31/7/2015 with General Grade Excellent) from **THE ESP CENTRE OF ALEXANDRIA UNIVERSITY**

19. Computer

Certificate for having a successfully passed all modules required for granting of **the international computer driving license syllabus version 4.**

20. Research skills

1. Conducting gross and microscopic dissection of domestic animal cadavers.
2. Preparing casts and performing vascular injections for anatomical studies.
3. Utilizing endoscopy and computed tomography for internal visualization.
4. Applying light microscopy, including tissue staining techniques.
5. Performing scanning electron microscopy (SEM) and transmission electron microscopy (TEM).
6. Performing immunohistochemistry, immunofluorescence, cytochemistry, and confocal microscopy for cellular and molecular analysis.
7. Executing basic and advanced molecular biology techniques, including gene editing (CRISPR/Cas9), stem cell biology, and other experimental approaches.
8. Conducting research in cancer biology and cancer therapy.
9. Conducting research in diabetes and diabetes treatment strategies.



21. Membership in scientific societies

1. Egyptian Anatomical Society (EAS), Cairo, Egypt.
2. African Association of Veterinary Anatomists (African AVA), Cairo, Egypt.
3. Japanese Society for Veterinary Medical Sciences (JSVS), Tokyo, Japan.
4. American Association of Anatomists (AAA), USA.
5. European Association of Veterinary Anatomists (EAVA), Europe.
6. World Association of Veterinary Anatomists (WAVA), USA.

22. Conferences

1. **Ahmed Rashwan**, Hiroyuki Konishi, and Hiroshi Kiyama (2014): Localization of nerve fibers in mucosa and taste buds of the soft palate of mice. An oral presentation at the Japanese Society for Anatomist Meeting in Japan, 11-12 October 2014.
2. **Ahmed Rashwan**, Kenichiro Furuyama, and Yoshiya Kawaguchi (2019): Generation of Functional Pancreatic β -Cells from Human iPSCs. Poster presentation, CiRA Retreat, Kyoto, Japan, 9–11 May 2019.
3. **Ahmed Rashwan**, Kenichiro Furuyama, and Yoshiya Kawaguchi (2019): Mechanistic Insights into Monogenic Diabetes Pathogenesis. Poster presentation, CiRA symposium, Kyoto, Japan, 2-4 October 2019.
4. **Ahmed Rashwan**, Kenichiro Furuyama, and Yoshiya Kawaguchi (2020): Therapeutic Effects of ER Stress Relief in Akita Mouse Models of Diabetes. Poster presentation, CiRA retreat, Kyoto, Japan, 15-17 October 2020.
5. **Ahmed Rashwan**, Kenichiro Furuyama, and Yoshiya Kawaguchi (2021): Human Donor Islets: ER Stress-Targeted Strategies for Diabetes Treatment. Poster presentation, CiRA symposium, Kyoto, Japan, 14-16 October 2021.
6. **Ahmed Rashwan**, Kenichiro Furuyama, and Yoshiya Kawaguchi (2022): Mechanistic Insight and Therapeutic Strategy for Diabetes with Insulin Mutation using Human iPSCs. Poster presentation at CiRA retreat, January 2022.
7. **Ahmed Rashwan**, Kenichiro Furuyama, Shinya Matsukawa, Toshikazu Nishie, Tatsuji Enoki, and Yoshiya Kawaguchi (2022): Elucidation of Pathological Mechanism of Insulin Gene Mutation Using Human iPS Cells. An oral presentation at the CiRA 2022 international Symposium, 16-17 February 2022.



8. **Ahmed Rashwan,** Kenichiro Furuyama, Shinya Matsukawa, Toshikazu Nishie, Tatsuji Enoki, and Yoshiya Kawaguchi (2023): Mechanistic Insight and Therapeutic Strategy for Diabetes with Insulin Mutation using Human iPSCs. Poster presentation at CiRA international symposium, November 30, 2023.
9. **Ahmed Rashwan,** Kenichiro Furuyama, Shinya Matsukawa, Toshikazu Nishie, Tatsuji Enoki, and Yoshiya Kawaguchi (2024): Mechanistic Insight and Therapeutic Strategy for Diabetes with Insulin Mutation using Human iPSCs. Poster presentation at CiRA retreat, January 22, 2024.
10. **Ahmed Rashwan,** Kenichiro Furuyama, and Yoshiya Kawaguchi (2024): Mechanistic Insight and Therapeutic Strategy for Diabetes with Insulin Mutation Using Human iPSCs. An oral presentation at the CiRA Progress Seminar, September 26, 2024.
11. **Ahmed Rashwan,** Kenichiro Furuyama, and Yoshiya Kawaguchi (2024): Mechanistic Insight and Therapeutic Strategy for Diabetes with Insulin Mutation Using Human iPSCs. Poster presentation in 4th Research Networking Salon, September 27, 2024.
12. **Ahmed Rashwan,** Kenichiro Furuyama, and Yoshiya Kawaguchi (2024): Mechanistic Insight and Therapeutic Strategy for Diabetes with Insulin Mutation Using Human iPSCs. Lecture at Meiwa High School (JSPS Science Dialogue Program), December 17, 2024.
13. **Ahmed Rashwan,** Kenichiro Furuyama, and Yoshiya Kawaguchi (2025): Uncovering the Mechanisms of Diabetes with Insulin Mutation Using Human iPSCs and Identifying a Novel Therapeutic Drug. Poster presentation at the CiRA Retreat, February 4, 2025.



23. List of acadmic publications

1. **Ahmed Rashwan**, Ahmed S. Sayed-Ahmed and Ashraf Elsharaby (2011): Comparative Anatomical Studies on the terminal Branches of the Lingual Artery of the Adult Sheep and Dog. *Alexandria Journal of Veterinary Sciences*, Vol.34., No (1), pp. 63-76, August 2011.
2. **Ahmed Rashwan**, Hiroyuki Konishi, Ashraf Elsharaby and Hiroshi Kiyama (2016): Ontogeny and innervation of taste buds in mouse palatal gustatory epithelium. *Chemical Neuroanatomy*, Vol.71., pp 26-40, January 2016.
DOI: [10.1016/j.jchemneu.2015.11.003](https://doi.org/10.1016/j.jchemneu.2015.11.003)
3. Mahmoud M. Elgendy, **Ahmed Rashwan**, Ahmed G. Nomir, Ahmed Sayed-Ahmed and Ashraf A. El Sharaby (2018): Prenatal development of the scapula of rabbit. *European Journal of Pharmaceutical and Medical Research*, Vol.6., pp. 144 - 152, May 2018.
4. **Ahmed M. Rashwan***, Ahmed E. Noreldin, Sahar F. Mahmoud, Yaser H. A. Elewa and Ahmed G. Nomir (2022): Ghrelin and Jacalin Localization in Developing Rat Kidney. *Journal of Morphological Sciences*, Vol. 39., pp 81-87, January 2022. (*corresponding author)
DOI: [10.51929/jms.39.81.2022](https://doi.org/10.51929/jms.39.81.2022)
5. Sahar F. Mahmoud, Mohamed M. Zeweil, Kadry M. Sadek, **Ahmed M. Rashwan*** (2022): Comparative Study between Camel and Cat Kidney by using Different Lectins. *Journal of Morphological Sciences*, Vol. 39., pp193-199, April 2022. (*corresponding author)
DOI: [10.51929/jms.39.193.2022](https://doi.org/10.51929/jms.39.193.2022)
6. **Ahmed M. Rashwan*** and Sahar F. Mahmoud (2022): Localization of Different Lectins and E-cadherin in the kidney of a Balady Egyptian Duck. *Alexandria Journal of Veterinary Sciences*, Vol.75., No (1), pp 1-12, November 2022. (*corresponding author)
DOI: [10.5455/ajvs.124612](https://doi.org/10.5455/ajvs.124612)
7. Sahar F. Mahmoud and **Ahmed M. Rashwan***(2022): Spatiotemporal Localization Patterns of Different Lectins in Developing Rat Kidney Postnatally. *Alexandria Journal*



of *Veterinary Sciences*, Vol.75., No (2), pp 6-19, December 2022. (*corresponding author)

DOI: [10.5455/ajvs.129020](https://doi.org/10.5455/ajvs.129020)

8. Mohamed M. A. Abumandour, Kareem Morsy, Ramzy Abumandour, Neveen El-Bakar, **Ahmed Rashwan**, Mahmoud Elghoul (2023): Scanning electron microscopic and Histological features of the oral cavity of the Egyptian tortoise. *Anatomia, Histologia, Embryologia Journal*, Vol. 52., No (2), pp 204-214, March 2023.
DOI: <https://doi.org/10.1111/ahe.12872>
9. **Ahmed M. Rashwan*** (2023): Postnatal Development of Endocrine Pancreatic Islets of an Egyptian One-humped Camel (*Camelus dromedarius*). *SVU-International Journal of Veterinary Sciences*, Vol. 6., No (1), pp 152-165, March 2023. (*corresponding author)
DOI: [10.21608/svu.2023.179071.1242](https://doi.org/10.21608/svu.2023.179071.1242)
10. Adel Sobhy, Ahmed El-khamary, **Ahmed M. Rashwan**, Ashraf Shamaa, Mostafa Kassem, Mohamed M. A. Abumandour, Kareem Morsy, Ahmed G. Nomir (2023): New Approach for Ultrasound-Guided Regional Analgesia of Brachial Plexus in Egyptian Donkeys. *Pakistan journal of zoology*, pp. 1-8, May 2023.
DOI: <https://dx.doi.org/10.17582/journal.pjz/20220802010800>
11. Sahar F Mahmoud, Yaser H Elewa, Ahmed G Nomir, **Ahmed M. Rashwan**, and Ahmed E Noreldin (2023): Calbindin Has a Potential Spatiotemporal Correlation with Proliferation and Apoptosis in the Postnatal Rat Kidney. *Microscopy and microanalysis*, Vol. 29(5), pp. 1705–1717, September 2023.
DOI: [10.1093/micmic/ozad080](https://doi.org/10.1093/micmic/ozad080)
12. **Ahmed M. Rashwan**, Mohamed A. M. Alsafy, Samir A. A. El-Gendy, Ahmed A. El-Mansi, Samar M. Ez Elarab (2023): Unveiling Cellular Diversity in the Buffalo Corneal Stroma: Insights into Telocytes and Keratocytes Using Light Microscope, Transmission Electron Microscope, and Immunofluorescence Analysis. *Microscopy and Microanalysis*, Vol. 29(6), pp. 2204–2217, December 2023.
DOI: [10.1093/micmic/ozad126](https://doi.org/10.1093/micmic/ozad126)
13. Alaa Ibrahim, **Ahmed Rashwan**, Ashraf El Sharaby, Mohamed Abumandour, Ahmed Nomir (2024): Thoracic cavity of the Shirazi cats: New insights using computed tomography and magnetic resonance imaging. *Anatomia, histologia, embryologia*, Vol. 53(1), pp. e13005, January 2024.



DOI: [10.1111/ahe.13005](https://doi.org/10.1111/ahe.13005)

14. Mohamed A M Alsafy, Nermin K A El-Sharnobey, Samir A A El-Gendy, Mohamed A Abumandour, Basma G Hanafy, Samar M Ez Elarab, **Ahmed M. Rashwan** (2024): The tongue of the red-eared slider (*Trachemys scripta elegans*): morphological characterization through gross, light, scanning electron, and immunofluorescence microscopic examination. *BMC veterinary research*, Vol. 20(1), pp. 45, February 2024.
DOI: <https://doi.org/10.1186/s12917-024-03879-2>
15. Samar M Ez Elarab, Mohamed A M Alsafy, Samir A A El-Gendy, Neveen E R El-Bakary, Ahmed Elsayed Noreldin, **Ahmed M. Rashwan** (2024): Investigating the role of Purkinje fibers and synaptic connectivity in balance regulation through comprehensive ultrastructural and immunohistochemical analysis of the donkey's (*Equus asinus*) cerebellum. *Journal of experimental zoology. Part A, Ecological and integrative physiology*, Vol. 341(3), pp. 293–306, April 2024.
DOI: <https://doi.org/10.1002/jez.2782>
16. **Ahmed M. Rashwan**, Samir A A El-Gendy, Samar M Ez Elarab, Mohamed A M Alsafy (2024): A comprehensive exploration of diverse skin cell types in the limb of the desert tortoise (*Testudo graeca*) through light, transmission, scanning electron microscopy, and immunofluorescence techniques. *Tissue & cell*, Vol. 87, pp. 102335, April 2024.
DOI: <https://doi.org/10.1016/j.tice.2024.102335>
17. **Ahmed M. Rashwan**, Samir A A El-Gendy, Mohamed A M Alsafy, Seham S Haddad (2024): Comparative morphological analysis of telson and uropods in *Penaeus canaliculatus* (Olivier, 1811), *Penaeus semisulcatus* (De Haan, 1844), and *Metapenaeus stebbingi* (Nobili, 1904) using scanning electron microscopy and EDX analysis. *Micron*, Vol. 181, pp. 103636, June 2024.
DOI: <https://doi.org/10.1016/j.micron.2024.103636>
18. Mohamed A M Alsafy, Samir A A El-Gendy, Brian Atkinson, Craig J Sturrock, Basma M Kamal, Aziza Alibhai, Hanan H Abd-Elhafeez, Soha Soliman, **Ahmed M. Rashwan**, Karam Roshdy, Catrin S Rutland (2024): Novel Insights into the Architecture of Macro and Microstructures in Cattle Ossa Cordis. *Microscopy and microanalysis*, Vol. 30(3), pp. 574–593, July 2024.
DOI: <https://doi.org/10.1093/mam/ozae046>



19. Mohamed A M Alsafy, Samir A A El-Gendy, Amira Derbalah, **Ahmed M. Rashwan**, Seham S Haddad (2024): Scanning electron microscopy and morphometric analysis of the hair in dromedaries with SEM-EDX in relation to age. *BMC zoology*, Vol. 9(1), pp. 17, July 2024.
DOI: <https://doi.org/10.1186/s40850-024-00204-0>
20. Amira Derbalah, Samir A A El-Gendy, Hanan H Abd-Elhafeez, Soha Soliman, Ahmed A El-Mansi, Manal Seif, **Ahmed M. Rashwan**, Mamdouh B Eldesoqui, Catrin Sian Rutland, Valentina Kubale, Mohamed A M Alsafy (2024): Light and scanning electron microscopy of the eye of *Siganus luridus* (Rüppell, 1828). *Frontiers in veterinary science*, Vol. 11, pp. 1417278, September 2024.
DOI: <https://doi.org/10.3389/fvets.2024.1417278>
21. Mohamed A M Alsafy, Nermin K A El-Sharnobey, Samir A A El-Gendy, Mohamed A Abumandour, Samar M Ez Elarab, **Ahmed M. Rashwan**, Basma G Hanafy (2024): Macroscopic, microscopic, and immunofluorescent characterization of the Greek tortoise (*Testudo graeca graeca*) oropharyngeal floor with concern to its feed adaptation as a herbivorous land reptile. *Microscopy research and technique*, Vol. 87(10), pp. 2385–2398, October 2024.
DOI: <https://doi.org/10.1002/jemt.24619>
22. **Ahmed M. Rashwan**, Samir A A El-Gendy, Ahmed A El-Mansi, Mamdouh B Eldesoqui, Mohamed A M Alsafy (2024): A novel immunofluorescence study of Lingual Salivary Glands in the Egyptian Tortoise (*Testudo kleinmanni*) and its ecological significance. *Tissue & cell*, Vol. 90, pp. 102517, October 2024.
DOI: <https://doi.org/10.1016/j.tice.2024.102517>
23. Basma M Kamal, Samir A A El-Gendy, **Ahmed M. Rashwan**, Hanan H Abd-Elhafeez, Soha Soliman, Neveen E R El-Bakary, Ahmed A El-Mansi, Mamdouh B Eldesoqui, Mohamed A M Alsafy (2024): A new insight for investigating the prenatal and postnatal ossification centers of pelvic and femur bones in white New Zealand rabbits (*Oryctolagus cuniculus*) using 3D CT, double stain technique, and morphometry. *Annals of anatomy*, Vol. 256, pp. 152316, October 2024.
DOI: <https://doi.org/10.1016/j.aanat.2024.152316>
24. **Ahmed M. Rashwan**, Mohamed M A Abumandour, Ramadan Kandyel, Om P Choudhary, Rofaida M Soliman, Ashraf El Sharaby, Ahmed G Nomir (2024):



Implications of endoplasmic reticulum stress and beta-cell loss in immunodeficient diabetic NRG-Akita mice for understanding monogenic diabetes. *International journal of surgery*, Vol. 110(10), pp. 6231–6242, October 2024.

DOI: <https://doi.org/10.1097/JS9.0000000000001148>

25. Mohamed A M Alsafy, Samir A A El-Gendy, Hanan H Abd-Elhafeez, Soha Soliman, Atef Erasha, Safwat Ali, Karam Roshdy, **Ahmed M. Rashwan** (2024): Scanning electron microscopy, morphometric and energy dispersive X-Ray analysis of cephalothoracic structures exploring defensive and sensory features in kuruma shrimp (*Marsupenaeus japonicus* Spence Bate, 1888). *BMC zoology*, Vol. 9(1), pp. 29, November 2024.

DOI: <https://doi.org/10.1186/s40850-024-00219-7>

26. Mohamed A M Alsafy, Hanan H Abd-Elhafeez, **Ahmed M. Rashwan**, Atef Erasha, Safwat Ali, Samir A A El-Gendy (2025): Anatomy, histology, and morphology of fish gills in relation to feeding habits: a comparative review of marine and freshwater species. *BMC zoology*, Vol. 10(1), pp. 3, February 2025.

DOI: <https://doi.org/10.1186/s40850-025-00223-5>

27. Mohamed A M Alsafy, Samir A A El-Gendy, Samar M Ez Elarab, Ahmed A El-Mansi, Mamdouh B Eldesoqui, **Ahmed M. Rashwan** (2025): Novel Insights Into the Ultrastructural and Immunofluorescence Characteristics of Limb Skin in the Red-Eared Slider Turtle (*Trachemys scripta elegans*). *Microscopy research and technique*, Vol. 88(3), pp. 631–657, March 2025.

DOI: <https://doi.org/10.1002/jemt.24729>

28. **Ahmed M. Rashwan**, Hagar M Mohamed, Samir A A El-Gendy, Hanan H Abd-Elhafeez, Ahmed A El-Mansi, Mamdouh B Eldesoqui, Amal F Dawood, Mohamed A M Alsafy (2025): Novel Insights Into Telocyte Presence and Distribution in the Cornea of the Laughing Dove (*Spilopelia senegalensis*) Using Immunofluorescence Analysis. *Microscopy research and technique*, Vol. 88(7), pp. 2009–2024, March 2025.

DOI: <https://doi.org/10.1002/jemt.24845>

29. Samar M Ez Elarab, Hagar M Mohamed, Samir A A El-Gendy, Ahmed A El-Mansi, Mamdouh B Eldesoqui, Amal F Dawood, Mohamed A M Alsafy, **Ahmed M. Rashwan** (2025): Novel identification of telocytes in the skin of the desert tortoise (*Testudo graeca*): A correlative study using semithin section, transmission electron microscopy,



and immunofluorescence. *Research in veterinary science*, Vol. 191, pp. 105689. May 2025.

DOI: <https://doi.org/10.1016/j.rvsc.2025.105689>

30. Samir A. A. El-Gendy, Mohamed A. M. Alsafy, Ahmed A. El-Mansi, Mamdouh B. Eldesoqui, **Ahmed M. Rashwan** (2025): Novel insights into Egyptian tortoise (*Testudo kleinmanni*) tongue morphology using immunofluorescence analysis. *Microscopy and Microanalysis*, 31(4), August 2025.

DOI: <https://doi.org/10.1093/mam/ozaf064>

31. Mohamed A. M. Alsafy, Samir A. A. El-Gendy, **Ahmed M. Rashwan**, Samar M. Ez Elarab, Manal Seif, Neveen E. R. El-Bakary, Ahmed A. El-Mansi, Mamdouh B. Eldesoqui, Amal F. Dawood, Catrin S. Rutland, & Valentina Kubale. (2025): Comparative functional tongue morphology in male omnivorous bogue (*Boops boops*) and carnivorous red porgy (*Pagrus pagrus*) in relation to feeding habits: A study using light microscopy, scanning electron microscopy, and morphometric analysis. *Zoology*, 173, 126306. November 2025.

DOI: <https://doi.org/10.1016/j.zool.2025.126306>

32. **Ahmed M. Rashwan**, Samir A. A. El-Gendy, Samar M. Ez Elarab, Manal Seif, Ahmed A. El-Mansi, Mamdouh B. Eldesoqui, & Mohamed A. M. Alsafy. (2025): Cutaneous innervation in the red-eared slider turtle: Novel identification and analysis of scale sensilla and sensory corpuscles with immunofluorescence insights and ecological implications. *Journal of Experimental Zoology Part A: Ecological and Integrative Physiology*, 343(9), pp. 995–1022. November 2025.

DOI: <https://doi.org/10.1002/jez.70014>

33. Ahmed A. El-Mansi, Mohamed A. Al Qahtani, Hend Alshahrani, Eman R. Elbealy, Mamdouh B. Eldesoqui, Samir A. A. El-Gendy, Mohamed A. M. Alsafy, Valentina Kubale, **Ahmed M. Rashwan** (2026): Anatomical and histomorphological characterization of the gastrointestinal tract (esophagus, stomach, and ileum) of the shining sunbird (*Cinnyris habessinicus*): A paradigm for the nectarivorous niche in sunbirds. *Micron*, 200, 103923, January 2026.

DOI: <https://doi.org/10.1016/j.micron.2025.103923>

34. Samir A. A. El-Gendy, Mohamed A. M. Alsafy, Neveen E. R. El-Bakary, Ahmed A. El-



Mansi, Mamdouh B. Eldesoqui, Amal F. Dawood, Soha Soliman, Basma M. Kamal, **Ahmed M. Rashwan** (2026): Scanning electron microscopy and morphometric analysis of the tongue in four carnivorous fish species—Dusky grouper (*Epinephelus marginatus*), John Dory (*Zeus faber*), squirrelfish (*Sargocentron spinosissimum*), and red lionfish (*Pterois miles*). *Tissue and Cell*, 98, 103120, February 2026.

DOI: <https://doi.org/10.1016/j.tice.2025.103120>

35. Mamdouh B. Eldesoqui, Hagar M. Mohamed, Aya Megahed, Rania A. Fouad, Samar Sakr, Samir A. A. El-Gendy, **Ahmed M. Rashwan**, Ahmed A. El-Mansi, Amal F. Dawood, Mohamed A. M. Alsafy, Valentina Kubale, Eman M. Embaby (2026): The potential protective role of L-citrulline against cadmium-induced renal dysfunction in male albino rats: The implications of the Nrf2/HO-1 antioxidant signaling pathway. *Tissue and Cell*, 98, 103149, February 2026.

DOI: <https://doi.org/10.1016/j.tice.2025.103149>

Updated 27/3/2026