Joy Y. Balta, PhD, MSc, MA

Education	
Ph.D. Human Anatomy, University College Cork, Cork, Ireland Thesis Title: Functional educational characterization of the utility of embalming fluids for anatomical education and research Advisor: John F. Cryan and Siobhain M. O'Mahony	2016
M.A. Teaching and Learning in Higher Education, University College Cork, Ireland	2020
M.Sc. Human Anatomy, University of Dundee, Dundee Scotland	2012
B.S. Life and Earth Sciences (Honors), Lebanese University, Beirut, Lebanon	2009
Academic Appointments	
Associate Professor & Founding Director Anatomy Learning Institute, College of Health Sciences, Point Loma Nazarene University, San Diego, California	2022- Present
Associate Professor Biomedical Education & Anatomy, The Ohio State University, Columbus, Ohio	2021- 2022
Faculty Fellow for Instructional Redesign Michael V. Drake Institute for Teaching and Learning, Office of Academic Affairs, The Ohio State University, Columbus, Ohio	2020- 2022
Adjunct Instructor of Anatomy- Online Pasadena City College	2021- Present
Assistant Professor Biomedical Education & Anatomy, The Ohio State University, Columbus, Ohio	2018- 2021



Adjunct Assistant Professor Biomedical Education & Anatomy, The Ohio State University, Columbus, Ohio	2018
Assistant Professor (Lecturer at Irish University Ranking) Anatomy & Neuroscience, University College Cork, Cork, Ireland	2016- 2018
Senior Medical Demonstrator at Irish University Ranking Anatomy & Neuroscience, University College Cork, Cork, Ireland	2013- 2016
Instructor School of Medicine, Lebanese American University, Byblos, Lebanon	2012- 2013
Leadership Positions	
Instructional Redesign Initiative Lead Institute for Teaching & Learning, The Ohio State University, Columbus, Ohio	2020- 2022
Director of Labs & Body Donation Program Biomedical Education & Anatomy, The Ohio State University, Columbus, Ohio	2018- 2022
MSc Human Anatomy Program Coordinator Anatomy & Neuroscience, University College Cork, Cork, Ireland	2017- 2018
MSc Human Anatomy Program Development Coordinator Anatomy & Neuroscience, University College Cork, Cork, Ireland	2016- 2017
Other Positions and Employment	
Consultant in Surgical Education Victory Healthcare- Institute for BioResearch, Houston, Texas	2013- 2014
Lab Technician in Anatomy & Microbiology School of Medicine, Lebanese American University, Byblos, Lebanon	2009- 2011
Founding President As You Are- Non-Profit Organization, Beirut, Lebanon	2009- 2013
Professional Memberships and Activities American Association for Anatomy Co-Chair, Limbs/Trunk Curriculum Review Task Force Member, Body Donation Policies and Bill HR 1835 Task Force Chair, Human Body Donor Task Force	2013- Present 2014 2019 2016- Present



Anatomical Society of Great Britain & Ireland	2013- Present
Member, Board of Directors & Trustee	2014- 2016
Member, Website, Media & Communications Committee	2014- 2019
Member, Meetings Committee	2014- 2016
Institute of Anatomical Sciences	2011- Present
Member, Board of Directors	2014 to 2016

Editorial Responsibilities

Anatomical Sciences Education, Reviewer Anatomia, Histologia, Embryologia, Reviewer Journal of Anatomy, Reviewer Medical Teacher, Reviewer Frontiers in Veterinary, Reviewer Saudi Medical Journal, Reviewer Clinical Anatomy, Reviewer

Educational Activities

Educational Administration and Leadership Member, Admissions Committee	2016- 2018
Member, Marketing and Recruitment Committee	2016- 2018
Member, Exams Committee	2016- 2018
Program Development Coordinator, Masters in Human Anatomy	2016- 2017
Program Coordinator, Masters in Human Anatomy	2017- 2018
Member, Surgical Education Committee	2019- Present
Member, CIRTL Network Steering Committee	2019- Present
Instructional Redesign on Demand Short Course Series	2021- Present
Teaching Activities Foundations of Medicine Block, Instructor, 60 students	2012- 2013
Session Titles: Thorax & Mediastinum, Autonomic Nerves System, Abdominal Viscera, Male & Female Pelvis	







Endocrinology & Reproductive Medicine Block, Instructor, 60 students Session Titles: Pancreas & Suprarenal, Male Reproductive System	2012- 2013
Nephrology Block, Instructor, 60 students Session Titles: Anatomy of the Urinary System	2012- 2013
Pulmonary Block, Instructor, 60 students Session Titles: Anatomy of the Lungs & Thoracic cage, Nasal Cavities & Paranasal Sinuses, Root of the Neck	2012- 2013
Gastrointestinal Block, Instructor, 60 students Session Titles: Foregut, Midgut, Hindgut	2012- 2013
Musculoskeletal & Dermatology Block, Instructor, 60 students Session Titles: Leg & Foot, Gluteal Region & Popliteal Fossa, Deep Muscles of the Back, Forearm & Hand	2012- 2013
Neurosciences & Psychiatry Block, Instructor, 60 students Session Titles: Gross Anatomy of the Brain, Spinal Cord, Cranial Nerves	2012- 2013
The Anatomical Basis of Dental Hygiene, Instructor, 40 students Session Titles: Oral Cavity, Nasal Cavity, Trigeminal Nerve, Muscles of Mastication, Floor of the Mouth	2013- 2016
Topographical Anatomy of Dental Practice, Instructor, 90 students Session Titles: Mediastinum, Thorax, Lungs & diaphragm, Overview of the Central Nervous System, Orbit & Eye	2013- 2016
Human Regional Neuroanatomy, Instructor, 25 students Session Titles: Gross Anatomy of the Brain, Cranial Nerves, Limbic System	2013- 2016
Neuroanatomy, Instructor, 10 students Session Titles: Gross Anatomy of the Brain, Cranial Nerves, Limbic System	2013- 2016
Foundations of Medicine- Introductory Human Biology, Instructor, 125 students Session Titles: Anatomical Terminology, Axilla & Brachial Plexus, Arm, Joints, Anterior Forearm & Palm of Hand, Shoulder Region, Upper Limb Joints, Anterior & Medial Thigh, Leg & Foot, Lower Limb Joints	2013- 2016
Foundations of Medicine- Cardiovascular Biology, Instructor, 125 students Session Titles: Overview CVS, External Heart, Internal Heart, Mediastinum, Root of the Neck	2013- 2016



Anatomy Learning Institute

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Foundations of Medicine- Respiratory Biology, Instructor, 125 students Session Titles: Nose & Sinus, Pharynx& Larynx, Thoracic Wall, Lungs	2013- 2016
Foundations of Medicine- Gastrointestinal Biology, Instructor, 125 students Session Titles: Oral Cavity & Oropharynx, Parotid & Submandibular Region, Temporal Region & Muscles of Mastication, Anterior Abdominal Wall, Peritoneal Cavity, Liver-Stomach-Gall Bladder, Small & Large Intestine, Coeliac Trunk, Posterior Abdominal Wall, Rectum & Anus	2013- 2016
Foundations of Medicine- Neuroscience, Instructor, 125 students Session Titles: Skull, Meninges & Ventricles, Cranial Nerves, Basal Ganglia, Cerebellum	2013- 2016
Foundations of Medicine- Renal Mechanism, Instructor, 125 students Session Titles: Urinary Tract, Pelvic Wall, Perineum, Male Reproductive System, Female Reproductive System	2013- 2016
Graduate Fundamental of Medicine I, Instructor, 80 students Session Titles: Upper Limb1-2-3-4-5, Lower Limb 1-2-3-4	2013-2016
Graduate Fundamental of Medicine II, Instructor, 80 students Session Titles: Thoracic Cage, Mediastinum & Diaphragm, Pericardium & External Heart, Pelvis & Perineum, Nose, Pharynx	2013-2016
Graduate Fundamental of Medicine III, Instructor, 80 students Session Titles: Stomach- Liver- Gall Bladder, Small & Large Intestine, Abdominal Wall, Oral Cavity, Coeliac Trunk & Viscera	2013-2016
Graduate Fundamental of Medicine IV, Instructor, 80 students Session Titles: Skull, Meninges & Ventricles, Cranial Nerves, Basal Ganglia, Cerebellum	2013-2016
Anatomy of Speech and Hearing, Instructor, 30 students Session Titles: Pharynx and Larynx, Muscles of Facial Expression, Nasal Cavity, Facial Bones	2016
Topographical Anatomy for Physical Therapists, Instructor, 45 students Session Titles: Biomechanics of the Upper Limb, Biomechanics of the Lower limb	2016
Human Gross Anatomy, Coordinator & Instructor, 10 students Session Titles: Lectures & Labs covering the full human body	2017- 2018
Anatomy Pedagogy, Coordinator & Instructor, 10 students Session Titles: Universal Design for Learning, Multiple Intelligences in Anatomy, Curriculum Development, Teaching Session Design	2017- 2018



Graduate Gross Anatomy, Coordinator & Instructor, 10 students Session Titles: Lectures & Labs covering the full human body	2018- Present
Anatomy for General Surgery Residents, Coordinator & Instructor, 40 students Session Titles: General Abdominal Anatomy, Inguinal and Femoral Herniae, Biliary Anatomy & Foregut Mesenteric Vessels, Male & Female Pelvic Anatomy for Low Rectal Surgery, Thorax & Mediastinum, Neck Anatomy, Limb Vasculature/Compartment Release	2018- Present
Clinical Anatomy, Coordinator & Instructor, 10 students Session Titles: Head, Thorax, Abdomen, Back	2018- Present
Ethics & Professionalism in Medicine, Coordinator & Instructor, 210 students Session Titles: Ethics in the Anatomy Laboratory, From the Lab to the Practice of Ethics & Professionalism in Medicine	2019- Present
Super Hero Anatomy, Instructor, 25 students Session Titles: Muscular System of the Human Body	2019- Present
Education Seminar, Instructor, 20 students Session Titles: Universal Design for Learning	2019- Present
IR on Demand, Teaching in Large Classroom, 10 Faculty	2021- Present
Development of Curricula and Educational Materials	
Medical Anatomy Lab Manual, Lebanese American University, Lebanon	2011
Masters in Human Anatomy Curriculum, University College Cork, Ireland Program Learning Outcomes All Coursework Learning Outcome Gross Anatomy Curriculum & Teaching Resources Anatomy Pedagogy Curriculum & Teaching Resources	2016
Graduate Certificate in Anatomy & Physiology, The Ohio State University	2020
Instructional Redesign Asynchronous courses Teaching in Large Classroom Flipped Classroom Team Based Learning Online Teaching	2021



Advising and Mentoring

Students

2018
2019
2019
2020
2021
2021
2021
2021
2021
2018
2019

Scholarship

Primary Investigator of the Balta Lab

Current Members:

Tyler Hall- PhD Student- The Ohio State University
Lauren Riley- PhD Student- The Ohio State University
Jessica Willians- PhD Students- The Ohio State University
Michael Leake-MS Student- The Ohio State University
Mason Marek- MS Student- The Ohio State University
Jazmine Arce- MS Student- The Ohio State University
Jarrod Fair- MS Student- The Ohio State University
Taylor Wyatt- MS Student- The Ohio State University
Carsom Lambart- BS Student- The Ohio State University

Previous Members:

Dr. Elias Abdullah, MSc Student- University College Cork Dr. Cassie Fives, MSc Student- University College Cork Breffni Freyni, MSc Student- University College Cork Niamh O'Riley- MSc Student- University College Cork Amanda Gentile- MS Student- Queen's University, Canada Nic Schul- BS Student- The Ohio State University

Scholarship of Research-Peer-Reviewed Publications

- **1. Balta, J.Y.,** Venne, G., Noel, G.P.J.C 10 Tips on Working with Human Body Donors in Medical Training and Research. Anatomical Science International (2022).
- 2. Zealley, J.A., Howard, D., Thiele, C., **Balta, J.Y.** Human Body Donation: How informed are the donors? Clinical Anatomy (2022).
- **3.** Abudllah, E., Lone, M., Cray, J.J., Dvoracek, P., **Balta, J.Y.** Medical Students' Opinions of Anatomy Teaching Resources and Their Role in Achieving Learning Outcomes. Medical Science Educator (2022).
- **4.** Mosley, C., Lee W., Gilani, R., Terry, G., Reeves, R., **Balta J.Y**. Building Bridges with Anatomy: Can Continuing Education in Mortuary Sciences Transform the Profession? European Journal of Anatomy (2021).
- **5.** Abudllah, E., Lone, M., **Balta, J.Y.** Student-Centered Learning in the Anatomy Laboratory: Medical Students' Perspective. Medical Science Educator (2020).
- 6. **Balta, J.Y.**, Supple, B. and O'Keeffe, G.W. The Universal Design for Learning Framework in Anatomical Sciences Education. Anatomical Sciences Education (2020).
- 7. Vagg, T., **Balta, J.Y.**, Bolger, A. and Lone, M. Multimedia in Education: What do the Students Think? Health Professions Education (2020).
- 8. **Balta, J.Y.**, Blom, G., Davidson, A., Perrault, K., Cryan, J.F., O'Mahony, S. M., and Cassella, J.P. Developing a Quantitative Method to Assess the Decomposition of Embalmed Human Cadavers. Forensic Chemistry 18 (2020).
- 9. Salemeh, F.T., O'Reilly, B.A. and **Balta, J.Y**. The Cadaver is Not Dead. Anatomical Science International (2020).
- 10. **Balta, J.Y.**, O'Keeffe, G.W. and Supple, B. Utilizing the scholarship of teaching and learning to design an Anatomy Pedagogy Course. European Journal of Anatomy 23(3): 233-240 (2019).
- 11. **Balta, J.Y.**, Cryan, J.F. and O'Mahony, S.M. The antimicrobial capacity of embalming solutions: a comparative study. Journal of Applied Microbiology 126(3): 764-770 (2019).
- 12. **Balta, J.Y.**, Twomey, M., Moloney, F., Duggan, O., Murphy, K.P., O'connor, O.J., Cronin, M., Cryan, J.F., Maher, M.M. and O'mahony, S.M. A comparison of embalming fluids on the structures and properties of tissue in human cadavers. Anatomia, Histologia, Embryologia 48(1): 64-73 (2019).

- 13. Moloney, F., Twomey, M., Fama, D., **Balta, J.Y.**, James, K., Kavanagh, R.G., Moore, N., Murphy, M.J., O'Mahony, S.M., Maher, M.M. and Cryan, J.F. Determination of a suitable low-dose abdominopelvic CT protocol using model-based iterative reconstruction through cadaveric study. Journal of Medical Imaging and Radiation Oncology 62(5): 625-633 (2018).
- 14. **Balta, J.Y.**, Twomey, M., Moloney, F., O'Connor, O.J., Murphy, K.P., Cronin, M., Cryan, J.F., Maher, M.M. and O'Mahony, S.M. Assessing radiological images of human cadavers: Is there an effect of different embalming solutions? Journal of Forensic Radiology and Imaging 11: 40-46 (2017).
- 15. Lone, M., McKenna, J.P., **Balta, J.Y.**, O'Mahony, S.M., Cryan, J.F., Downer, E.J. and Toulouse, A. Assessment of Thiel-Embalmed Cadavers as a Teaching Tool for Oral Anatomy and Local Anesthesia. Journal of Dental Education 81(4): 420-426 (2017).
- 16. **Balta, J.Y.**, Cronin, M., Cryan, J.F. and O'Mahony, S.M. The utility of cadaver-based approaches for the teaching of human anatomy: A survey of British and Irish anatomy teachers. Anatomical Sciences Education 10(2): 137-143 (2017).
- 17. **Balta, J.Y.**, Lamb, C. and Soames, R.W. A pilot study comparing the use of Thiel-and formalin-embalmed cadavers in the teaching of human anatomy. Anatomical Sciences Education 8(1): 86-91 (2015).
- 18. **Balta, J.Y.**, Cronin, M., Cryan, J.F. and O'Mahony, S.M., 2015. Human preservation techniques in anatomy: a 21st century medical education perspective. Clinical Anatomy, 28(6), pp.725-734.

Scholarship of Research-Books and Chapters

1. **Balta, J.Y.** and Whiting, K. World Small Hydropower Development Report—Lebanon & Jordan 306-3011. United Nations (2014).

Invited Presentations

International

Human Body Donor Research- Current Trends and Future Directions, Institute of Anatomical Sciences, Spring Scientific Meeting, London, UK	04/24/2021
The Anatomy Education Podcast, Leads University, England http://anatomypodcast.co.uk/episodes/dr-joy-balta/	09/24/2017
Teaching and Learning in Anatomy, Queen's University Belfast, Belfast,	04/29/2018

2018

Cadaver & Embalming Research in the 21 st Century, King's College London, London, England	06/8/2018
Expositors Collective- Pedagogy, Educational Theory & Sunday Teaching, Cork, Ireland https://www.expositorscollective.com/podcast/2019/12/24/episode-80-pedagogy-educational-theory-amp-sunday-sermons	12/24/2019
NT . ' 1	
National Cadaveric and Embalming Research; Challenges and Opportunities, American Association for Anatomy, Indiana	05/01/2021
The Use of Soft Preserved Cadavers in Medical Education, Western University, California	06/26/2017
Anatomy in the Irish Medical Education- The Land of Saints and Scholars, The George Washington University, Washington, DC	12/13/2017
Clinically Applied Anatomy- The Shoulder Region, Liberty University College of Osteopathic Medicine, Virginia	02/23/2018
Regional The Application of Clinical Vignette in Anatomy Teaching, Oakland University, Michigan	03/20/2017
Other Presentations, Posters, and Abstracts	
1. Balta, J.Y. , Cronin, M., Cryan, J.F. and O'Mahony, S.M. The utility of cadaver-based approaches for the teaching of human anatomy: A survey of British and Irish anatomy teachers. Experimental Biology	2016
2. Banani, T., Lee, J., Lean, A.N., Butera, G., Brown, K., Jurjus, A.R., Hawi, J., Leon, A., Cappello, F., Balta, J.Y. , Lone, M. and Jurjus, R. Knowledge Retention Across curricular models: an international collaboration. George Washington University	2018
3. Boaz, N. T., Abercrombie, C., Balta, J.Y. , Becker, R., Bernor, R., Clary, T., Goodmurphy, C., Graham, J., Kalmar E.L., Wasigroch, T., Krimsier, J., Robinson, C., Sikon, D., Sikon, R., and Wessels, M. issue Solidification in Heart, Lung, and Brain in Soft-Embalmed Cadavers AACA Meeting- Award Winning Presentation	2018

A.R., Hawi, J., Leon, A., Cappello, F., Buchcieri, F., Balta, J.Y., Lone,

4. Jurjus, R. A., Banani, T., Goldman E., Lean, A.N., Butera, G., Jurjus,

2021

M., Brown, K. and Lee, J. Knowledge retention across curricular models: An international collaboration. AACA Regional Meeting in Washington, D.C

5. Banani, T., Lee, J., Lean, A.N., Butera, G., Brown, K., Jurjus, A.R., 2018 Hawi, J., Leon, A., Cappello, F., **Balta, J.Y.**, Lone, M. and Jurjus, R. Knowledge Retention Across curricular models: an international collaboration. AAMC- NEGEA 6. Lone, M., Abdullah, E. and Balta, J.Y. Assessing Student-Led 2019 Learning in an Anatomy Practical: Students' Perception. Experimental **Biology** 7. **Balta, J.Y.,** Lone, M. and Jurjus, R. A. What do the Students 2019 Remember? A Retention Study among Irish Medical Students. **Experimental Biology** 8. Dvoracek, P., Balta, J.Y. Osadjan, M. Analysis of Undergraduate 2020 Retention Outcomes: What do Students Actually Remember? **Experimental Biology** 9. **Balta, J.Y.,** Thiele, C. and Fernandes, A. Engaging the Hidden 2020 Curriculum: A Pilot Intervention Using the Anatomy Lab to Teach Ethics & Professionalism. AAMC- CGEA 2021 10. Thiele C, Fernandes AK, Quinn MM, **Balta JY**. Dissecting Medical Students' Body Donor Dissection Experience: What can we learn? ASGBI. 11. Mosley C, Lee W, Reeves R, Gilani R, Terry G, **Balta JY**. Anatomy 2021 and Mortuary Sciences: The Crossed Paths of Two Disciplines. ASGBI. 12. Lobdell J, **Balta JY**, Mosley C. A Unique Variation of Gantzer Muscle. 2021 ASGBI. 13. Mosley C, Beam S, Brzezinski E, Cooper M, Li R, Mohi A, Prada C, 2021 **Balta JY**. Cadaveric anomalous circumflex artery finding: a case study. ASGBI. 14. **Balta JY**, Thiele C, Fernandes AK. Preparedness, Challenges & 2021 Processing of Medical Students' Body Donor Dissection Experience. AAA.

15. Feryni B, Lone M, **Balta JY**. Assessing Stress Related Behaviours on

Temporomandibular Joint Dysfunction: A Pilot Study. AAA.

THE OHIO STATE UNIVERSITY	4/1/2022
COLLEGE OF MEDICINE	
16. Hall TR, Beam SA, Parker MF, Balta JY, Burgoon JM.Multiple Variations of Forearm Musculature Uncovered During Routine Cadaveric Dissection. AACA.	2021
17. Zealley J, Howard D, Thiele C, Balta JY . Consent in Human Body Donation. ASBH.	2021
Professional Development	
Gross Anatomy of the Thoracic Region, Organizer, Columbus, Ohio	
Gross Anatomy of the Upper Limb & Back, Organizer, Columbus, Ohio	
Gross Anatomy of the Thoracic Region, Organizer, Marion, Ohio	
Committee Assignments and Administrative Service	
Department of Biomedical Education & Anatomy, The Ohio State University Chair, Body Donation Program Advisory Committee	2019- 2022
Division of Anatomy, The Ohio State University Manager, Social Media Team	2019- 2022
Surgical Skills Lab, The Ohio State University Wexner Medical Center Member, Surgical Education Committee	2019- 2022
University Institute for Teaching and Learning, The Ohio State University Member, CIRTL Network Steering Committee	2019- 2022
Office of Academic Affairs, The Ohio State University Member, Teaching Evaluation Committee	2020- 2022
Community Service	
World Vision, Lebanon, Volunteer Coordinator	2004- 2009
As You Are, Lebanon, Founding President	2009-2013
National Health Services, Scotland, Suicide First Aid Interventionist	2011-2012

2019-2022

2020-2022

Dream Center Homeless Outreach, Ohio, Volunteer

Life Beyond the Streets, Ohio, Volunteer