Allegato B

Marta Zerunian
Curriculum Vitae

Rome
29.08.2024

Part I – General Information

Full Name	Marta Zerunian
Date of Birth	
Place of Birth	
Citizenship	Italian
Spoken Languages	Italian, English

Part II – Education

Type	Year	Institution	Notes (Degree, Experience,…)
University graduation	2015	"Sapienza" University of Rome	Graduation in Medicine and Surgery, 110/110 cum laude
Licensure	2016	"Sapienza" University of Rome	Licensure at the Medical, Surgical and Odontologists Board of Rome
Specialty	2020	"Sapienza" University of Rome	Residency School in Radiology, 70/70 cum laude
Post-Graduate	2020	Cambridge University, Addenbrook's Hospital, Cambridge	Clinical Fellow at Radiology Department, Cambridge University, Addenbrook's Hospital, Cambridge, Prof. Evis Sala
Abilitation	2023	ASN-MIUR	National Scientific Qualification, Assistant Professor (ASN 2021-2023, Sector 06,I1)
PhD	2024	"Sapienza" University of Rome	Oncology, Department of Medical-Surgical and Traslational Medicine, Sapienza University, Sant'Andrea Hospital, Rome
Researcher	2021-present	"Sapienza" University of Rome	Department of Surgical and Medical Sciences and Translational Medicine, Sant'Andrea Academic Hospital, "Sapienza" University of Rome

Part III – Appointments

IIIA – Academic Appointments

Start	End	Institution	Position
2022	Today	"Sapienza" University of Rome	Assistant Professor in Imaging and Radiotherapy techniques – Graduating Class in Medical Radiology, Imaging and Radiotherapic Techniques; "Sapienza"University of Rome, sited in Sora (FR)
2022	Today	"Sapienza" University of Rome	Assistant Professor in Imaging and Radiotherapy techniques – Graduating Class in Medical Radiology, Imaging and Radiotherapic Techniques; "Sapienza"University of Rome, sited in Viterbo (FR)

IIIB – Other Appointments

Start	End	Institution	Position
2023	Today	La Radiologia Medica (Official Journal of the Italian Society of Medical and Interventional Radiology)	Scientific Editorial Board
2023	2023	Diagnostics	Editor of Special Issue
2024	Today	Cancers	Assistant Editor of Special Issue

Part IV – Teaching experience

Year	Institution	Lecture/Course
2023	ESGAR	Acute Abdominal Emergencies in Oncology Patients
2023	ESOI-EORTC	ESOI-EORTC Workshop: Imaging in assessing response to cancer therapy – A hands-on course "Beyond RECIST"

2024	European Society of Radiology	AI in MR examinations: no more compromise between time and quality
2024	ESGAR	Ultrasound-based techniques for presurgical assessment of liver function

Part V - Society memberberships, Awards and Honors

Year	Title
2018	Member of Young Committee of ESOI (European Society of Oncologic Imaging)
2020	Member of Young ESGAR Committee (European Society of Gastrointestinal and Abdominal Radiology)
2018	"Invest in the youth" at ECR 2018, European Congress of Radiology
2018	"Certificate of Appreciation" top 20 presenter ESGAR Annual Congress 2017
2019	"Invest in the youth" at ECR 2019, European Congress of Radiology
2019	"Honourable Mention" for oral presentation at Oncologic Imaging Course (OIC) 2019
2019	Certificate of Appreciation" top 20 presenter ESGAR Annual Congress 2019
2022	Winner of best poster at ISRMR Italian Chapter congress, Pisa 2022

Part VI - Funding Information [grants as PI-principal investigator or I-investigator]

Year	Title	Program	Grant value
2017	Principal Investigator	Biliary Leak after percutaneous biliary stenting: prevention with collagen foam. "Avvio alla Ricerca" project, Sapienza Università di Roma	
2018	Principal Investigator	Response to therapy prediction with Perfusion RM in rectal cancer. "Avvio alla Ricerca" project, Sapienza Università di Roma	
2019	Principal Investigator	Non-small-cell lung cancer treated with pembrolizumab: correlation between texture analysis and iRECIST. "Avvio alla Ricerca" project, Sapienza Università di Roma	
2020	Investigator	Investigator CHAIMELEON "Accelerating the lab to market transition of AI tools for cancer management" – *Horizon 2020*	
2020	Investigator	"ATTRACT" - ArTificial inTelligence-based RAdiogenomics in Colon Tumors AIRC IG 2020 – ID 24974	
2021	Investigator	The impact of artificial intelligence on Magnetic Resonance Imaging: assessment	

		of a deep learning-based protocol in clinical practice - "Progetti Piccoli" project, Sapienza Università di Roma	
2022	Investigator	Radiomics cancer hallmarks to identify High-risk patients in non-metastatic colon cancer - "Progetti Medi" project, SapienzaUniversità di Roma	
2022	Investigator	PRIN 2022 n. 2022MPAE29, "Setting up and validation of measurement of the total length of the small intestine by computed tomography and MRI with 3D reconstruction and artificial intelligence in obese patients undergoing metabolic surgery".	
2023	Investigator	Identification of CT-based radiomic model for predicting response to treatment in patients with advanced gastro-entero-pancreatic neuroendocrine neoplasms	

Part VII – Research Activities

Keywords	Brief Description

Keywords	Brief Description
Artificial Intelligence	Dr. Zerunian's research activities are based on artificial intelligence, radiomics, oncologic and abdominal radiology with great attention in MRI and CT. She is active participant of Tumor Board. Dr. Zerunian is member of Young Committee of ESOI and part of the Young ESGAR Committee. She is member of the Radiological Society of North America (RSNA), European Society of Radiology (ESR), Italian Society of Medical Radiology (SIRM), European Society of Gastrointestinal and Abdominal Radiology (ESGAR) and, European Society of Oncologic Imaging (ESOI).
Abdominal Imaging	
Oncologic Imaging	
Thoracic Imaging	
Radiomics	
MRI, CT	

Part VIII – Summary of Scientific Achievements

Product type	Number	Data Base	Start	End
Papers [international]	48	Scopus, Pubmed	2017	Today

Papers [national]				
Books [scientific]				
Books [teaching]	3	Scopus	2019	Today

Total Impact factor	248,786
Total Citations	1278
Average Citations per Product	26,625
Hirsch (H) index	17
Normalized H index*	2,125
Last five years Hirsch (H) index	14

*H index divided by the academic seniority.

Part IX– Selected Publications

List of the publications selected for the evaluation. For each publication report title, authors, reference data, journal IF (if applicable), citations, press/media release (if any).

N	Title	Authors	Reference Data	Journal IF	Citations
1	Chest CT Features of COVID-19 in Rome, Italy.	Caruso D, **Zerunian M**, Polici M, Pucciarelli F, Polidori T, Rucci C, Guido G, Bracci B, de Dominicis C, Laghi A.	*Radiology. 2020 Aug;296(2):E79-E85.*	11,105	426
2	Visceral fat shows the strongest association with the need of intensive Care in Patients with COVID-19.	Watanabe M, Caruso D, Tuccinardi D, Risi R, **Zerunian M**, Polici M, Pucciarelli F, Tarallo M, Strigari L, Manfrini S, Mariani S, Basciani S, Lubrano C, Laghi A, Gnessi L.	*Metabolism. 2020 Oct;111:154319.*	8,697	151
3	Optimization of contrast medium volume for abdominal CT in oncologic patients: prospective comparison between fixed and lean body weight-adapted dosing protocols	Caruso D, Rosati E, Panvini N, Rengo M, Bellini D, Moltoni G, Bracci B, Lucertini E, **Zerunian M**, Polici M, De Santis D, Iannicelli E, Anibaldi P, Carbone I, Laghi A	*Insights Imaging. 2021 Mar 20;12(1):40.*	5,036	21

4	CT based radiomic approach on first line pembrolizumab in lung cancer	**Zerunian M**, Caruso D, Zucchelli A, Polici M, Capalbo C, Filetti M, Mazzuca F, Marchetti P, Laghi A.	*Sci Rep. 2021 Mar 23;11(1):6633.*	4,997	26
5	Postacute Sequelae of COVID-19 Pneumonia: 6-month Chest CT Follow-up	Caruso D, Guido G, **Zerunian M**, Polidori T, Lucertini E, Pucciarelli F, Polici M, Rucci C, Bracci B, Nicolai M, Cremona A, De Dominicis C, Laghi A	*Radiology. 2021 Nov;301(2):E396-E405.*	29,146	83
6	Artificial intelligence based image quality enhancement in liver MRI: a quantitative and qualitative evaluation	**Zerunian M,** Pucciarelli F, Caruso D, Polici M, Masci B, Guido G, De Santis D, Polverari D, Principessa D, Benvenga A, Iannicelli E, Laghi A.	*Radiol Med. 2022 Oct;127(10):1098-1105.*	8,9	34
7	Diagnostic performance of CT lung severity score and quantitative chest CT for stratification of COVID-19 patients	Caruso D, **Zerunian M**, Polici M, Pucciarelli F, Guido G, Polidori T, Rucci C, Bracci B, Tremamunno G, Laghi A.	*Radiol Med. 2022 Mar;127(3):309-317*	8,9	8
8	Explainable AI in radiology: a white paper of the Italian Society of Medical and Interventional Radiology	Neri E, Aghakhanyan G, **Zerunian M**, Gandolfo N, Grassi R, Miele V, Giovagnoni A, Laghi A; SIRM expert group on Artificial Intelligence	*Radiol Med. 2023 Jun;128(6):755-764.*	9,7	6
9	Fast high-quality MRI protocol of the lumbar spine with deep learning-based algorithm: an image quality and scanning time comparison with standard protocol	**Zerunian M**, Pucciarelli F, Caruso D, De Santis D, Polici M, Masci B, Nacci I, Del Gaudio A, Argento G, Redler A, Laghi A.	*Skeletal Radiol. 2024 Jan;53(1):151-159.*	1,9	5
10	Liver Magnetic Resonance Elastography: Focus on Methodology, Technique, and Feasibility.	**Zerunian M**, Masci B, Caruso D, Pucciarelli F, Polici M, Nardacci S, De Santis D, Iannicelli E, Laghi A	*Diagnostics (Basel). 2024 Feb 9;14(4):379*	3,0	0

| 11 | Integrated radiogenomics models predict response to neoadjuvant chemotherapy in high grade serous ovarian cancer | Crispin-Ortuzar M, Woitek R, Reinius MAV, Moore E, Beer L, Bura V, Rundo L, McCague C, Ursprung S, Escudero Sanchez L, Martin-Gonzalez P, Mouliere F, Chandrananda D, Morris J, Goranova T, Piskorz AM, Singh N, Sahdev A, Pintican R, **Zerunian M**, Rosenfeld N, Addley H, Jimenez-Linan M, Markowetz F, Sala E, Brenton JD | *Nat Commun. 2023 Oct 24;14(1):6756.* | 14,7 | 3 |
| 12 | Is CT Radiomics Superior to Morphological Evaluation for pN0 Characterization? A Pilot Study in Colon Cancer. | **Zerunian M,** Nacci I, Caruso D, Polici M, Masci B, De Santis D, Mercantini P, Arrivi G, Mazzuca F, Paolantonio P, Pilozzi E, Vecchione A, Tarallo M, Fiori E, Iannicelli E, Laghi A | *Cancers (Basel). 2024 Feb 4;16(3):660.* | 4,5 | 0 |

Roma, 29/08/2024   Marta Zerunian, MD, PhD