

**Bruno Hochegger, MD, PhD**  
Curriculum Vitae

# Bruno Hochhegger, MD, PhD

## Curriculum Vitae

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### **Personal Statement**

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As a thoracic radiologist with over 400 indexed PubMed publications, I have had the privilege of being involved in academic radiology for the last 10 years. Throughout my career, I have had a strong interest in academic radiology and the important role it plays in improving chest disease diagnosis and treatment. My focus has been primarily on thoracic magnetic resonance, which is an area of radiology that has grown significantly in recent years. I have been fortunate to contribute to its advancement through my research and publications. In the last 2 years, I moved my career to the United States and I want to expand my expertise in radiology research. I am currently Vice-chair of research, Professor and thoracic radiologist at the University of Florida. My expertise in clinical imaging analysis in magnetic resonance, chronic lung diseases and lung cancer. I have mentored 29 PhDs and MSc students in research projects involving lung cancer screening and new imaging methods in chest diseases. As UF vice chair of research, we have been working in all areas and have increased the number of publications by 25% continuously in the last 3 years.

## Actual Appointment

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### 1. Clinical Clinical Professor of Radiology

Department of Radiology

University of Florida, Gainesville, US.

2021-

Over the past three years, I have served as a Clinical Professor of Radiology, specializing in chest and cardiac imaging. My professional focus has been divided between 75% chest imaging and 25% cardiac imaging, utilizing a range of advanced imaging modalities including X-ray, CT, MRI, and ultrasound.

Key Responsibilities and Achievements:

Chest Imaging (75%): Conducted and interpreted a high volume of chest imaging studies, including high-resolution CT scans for lung disease, chest X-rays, and MRI for thoracic conditions. Provided critical insights for the diagnosis and management of pulmonary diseases, lung cancer, and other thoracic pathologies.

Cardiac Imaging (25%): Specialized in cardiac imaging techniques such as cardiac MRI, CT angiography, and echocardiography, contributing to the accurate diagnosis and treatment planning for cardiovascular diseases.

High Productivity: Consistently reported over 15,000 Relative Value Units (RVUs) per year, surpassing 100% of the expected productivity benchmarks set by the American Association of Academic Radiologists (AAARAD).

Educational Contributions: Engaged in teaching and mentoring radiology residents, performing between 2-4 one-hour lectures per week on various topics in chest and cardiac imaging.

Provided comprehensive training in imaging techniques and best practices.

My commitment to excellence in radiological practice and education has significantly contributed to both patient care and the academic environment, setting a high standard for productivity and quality in clinical radiology.

### 2. Vice-Chair to Research

Department of Radiology

University of Florida, Gainesville, US.

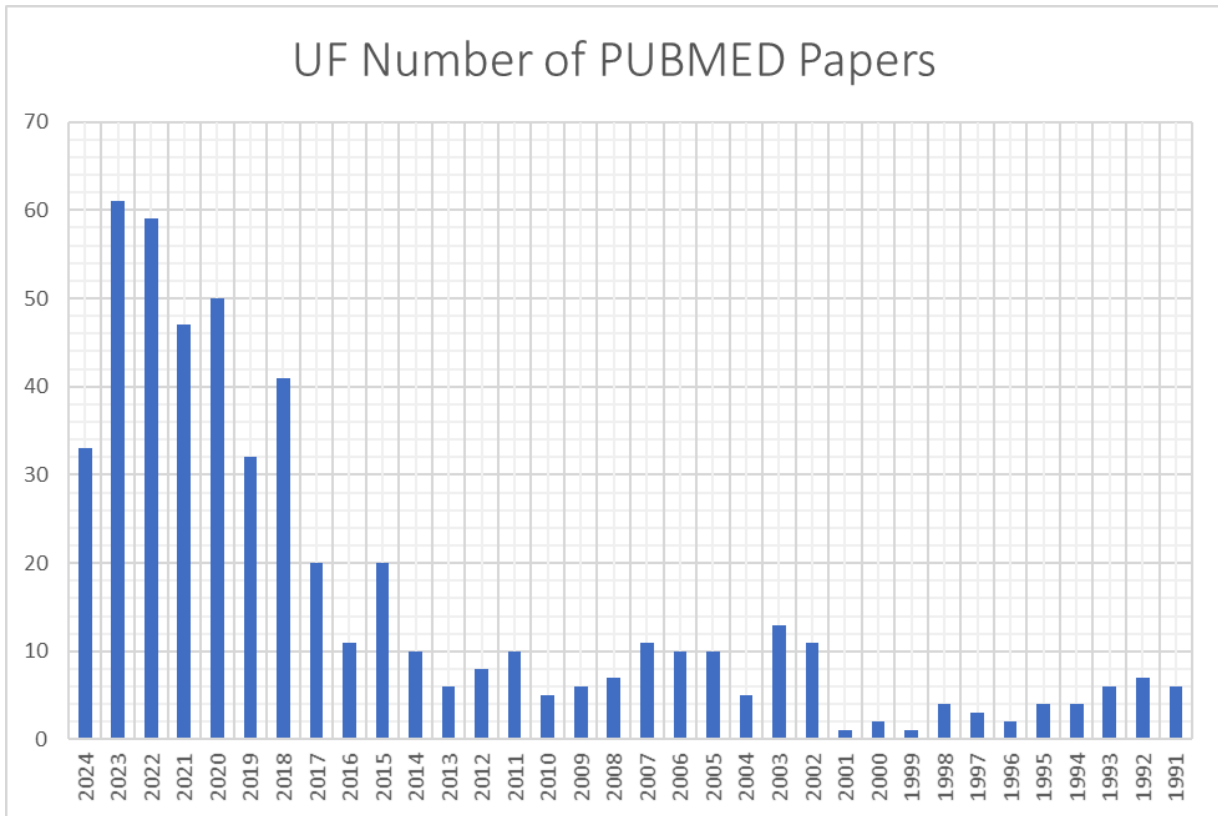
2022-

As the Vice Chair of Research, I have been dedicated to fostering a robust research environment within the department. My efforts have focused on mentoring students, organizing research activities, and significantly increasing the department's research output over the past few years (graph 1).

Key Responsibilities and Achievements:

Mentorship Programs: Developed and led mentorship programs for students and junior faculty, providing guidance on research methodologies, project development, and academic writing.

Weekly Research Meetings: Organized and facilitated weekly research meetings to discuss ongoing projects, share insights, and collaborate on new research ideas. These meetings have been instrumental in maintaining a dynamic and collaborative research culture.



3. Associate Director of RAIL lab (Radiomics and Augmented Intelligence Lab)  
 Department of Radiology  
 University of Florida, Gainesville, US.

2022-

As the Associate Director of the Radiomics and Augmented Intelligence Lab (RAIL) in the Department of Radiology, I have played a pivotal role in advancing the integration of artificial intelligence and radiomics in medical imaging. My work in this position focuses on leveraging cutting-edge technologies to enhance diagnostic accuracy, improve patient outcomes, and drive innovation in radiology. We translate to clinical practice quantitative CT in chronic lung diseases and are in the second development of Non gated calcium score

## **PREVIOUS EXPERIENCE AND WORK**

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Federal University of Rio Grande do Sul  
Professor of Radiology date: December 2014-December 2015

Pontifical Catholic University of Rio Grande do Sul  
Professor of Radiology and Chest Radiologist date: December 2015 - July 2021

## **EDUCATION**

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Ph.D in Chest Diseases  
Federal University of Rio Grande do Sul  
date: December 2010

Master in Sciences – Radiology  
Federal University of Rio de Janeiro  
date: December 2009

Thoracic Imaging Fellowship  
Federal University of Health Sciences  
date: July 2014

Medical residency - Radiology Federal  
University of Health Sciences  
date: December 2010

Medical Doctor  
Federal University of Santa Maria  
date: December 2006

## **FELLOWSHIPS AND ACADEMIC HONORS**

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- 2023 –Radiological Society of North America.  
RSNA William R. Eyler Editorial Fellow
- 2017 - American Roentgen Ray Society.  
Lee Rogers Fellowship,
- 2013 - Brazilian Council of Research  
Fellow scientist level II
- 2010 – European Society of Radiology  
Specialization in Torax – Magnetic resonance.
- 2009 –Radiological Society of North America.  
Introduction to Research for International Young Academics

## **COMMITTEES**

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- 2020- Radiological Society of North America  
Committee member on International Radiology Education (CIRE).
- 2022- Society of Thoracic Radiology  
Publications Committee.
- 2022- UF medical residency  
Mentorship Committee.
- 2023- Open source imaging consortium  
Board of Directors, secretary

## **ORGANIZING COMMITTEES IN MEETINGS**

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- 2017 Radiological Review in Infectious diseases  
Scientific director of a 15 day course in Maputo, Mozambique in a partnership with University of California. The aim of this course was training Non radiological phisicians to perform imaging diagnosis of infectious diseases in hospitals without radiologists in Africa.
- 2022 Chest Imaging Seminars  
Scientific director of a 30 day course in University of Florida covering all areas of chest imaging and transmitted free by zoom to all the world. The meeting had more than 200 attendees from 8 countries.
- 2023 Chest Imaging Seminars  
Scientific director of a 30 day course in University of Florida covering all areas of chest imaging and transmitted free by zoom to all the world. The meeting had more than 200 attendees from 8 countries.

## **LICENSES**

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- 2011 – Brazilian Medical Council –  
Full practice doctor
- 2014 – Brazilian Medical Council –  
Board Certified Radiologist
- 2011 – General Medical Council - England  
Full practice doctor
- 2023 – Florida Board of Medicine USA  
Full license doctor

## GRANTS

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Throughout my career, I have secured and contributed to numerous high-impact grants that focus on advancing lung cancer detection, improving outcomes for respiratory diseases, and pioneering the use of artificial intelligence in medical imaging. My role as an imaging expert has been pivotal in diverse projects ranging from precision lung cancer surveillance to open-source imaging for idiopathic pulmonary fibrosis. These grants have facilitated significant advancements in imaging technologies and methodologies, directly influencing clinical practices and patient care, particularly in underrepresented and developing regions. My contributions have consistently aimed at bridging gaps in medical imaging and fostering innovations that drive forward our understanding and treatment of various pulmonary conditions.

1. Advancing Precision Lung Cancer Surveillance and Outcomes in Diverse Populations (PLuS2) **2023–2028** Major Goals: The goal is to create an innovative, contemporary data source that will generate evidence on the impact of current lung cancer surveillance utilization, identify factors that drive the gaps in imaging surveillance, and determine who and how best to target interventions. This study focuses on populations with stage I NSCLC who have completed curative-intent therapy in both rural and urban FL and GA hospitals, representing a racially/ethnically diverse population (n~20,505). Number: R01CA284646 Name of PD/PI: Braithwaite, Dejana. **(Percent effort: 5%; role imaging expert)**. \*Primary Place of Performance: University of Florida : Total Award Amount (including Indirect Costs): \$2,675,662
2. Open Source Imaging . OSIC foundation. **2022-2025**. Major Goals:enable rapid, open source advances in the fight against idiopathic pulmonary fibrosis (IPF), fibrosing interstitial lung diseases (ILDs), and other respiratory diseases, including emphysematous conditions for the countless patients and caregivers living with these diseases. **Principal Investigator: Bruno Hochhegger. (Percent effort: 5%; role imaging expert)**. Amount: \$115,000 USD (total for 2 years).
3. AI in Pulmonary embolism. Canon Imaging 2024-2025. Goal: Assessment and development of an AI tool to Pulmonary embolism. **Principal Investigator: Bruno Hochhegger. (Percent effort: 5%; role imaging expert)**. Amount: \$55,000 USD (total for 2 years).
4. Lung cancer screening – Check lung protocol. Roche Pharmaceuticals. 2017-2021. Goal: Increase lung cancer screening in development countries. **Principal Investigator: Bruno Hochhegger. (Percent effort: 10%; role imaging expert)**. Amount: \$315,000 USD (total for 4 years).
5. Lung cancer screening – Propulmao. Bristol Myers Squid Pharmaceuticals. 2020-2023. Goal: Increase lung cancer screening in development countries. **Co-investigator: B. Hochhegger (Percent effort: 5%; role imaging expert and co-investigator)**. Amount: \$2,000,000 USD (total for 2 years).
6. AI in COVID . RGS Brazil State fund. 2020-2021. Goal: Assessment and development of an AI tool to Covid diagnosis. Principal Investigator: Bruno Hochhegger. (Percent effort: 10%; role imaging expert). Amount: \$50,000 USD (total

for 2 years).

7. Magnetic resonance of chest . CnPQ Brazil State fund. 2014-2016. Goal: Increase MRI of chest in development countries. **Principal Investigator: Bruno Hochegger. (Percent effort: 10%; role imaging expert).** Amount: \$100,000 USD (total for 2 years).
8. MEDNET: Telemedicine via Satellite Combining Improved Access to Health-Care Services with Enhanced Social Cohesion in Rural. 2006-2011. Fraunhofer-Institut. **CO-Investigator: Bruno Hochegger. (Percent effort: 10%; role imaging expert).** Amount: \$ 3 600,000 USD (total for 5 years).

## **SUPERVISIONS**

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### **Medical Students**

1. Ian Griffin. Chronic Covid . University of Florida. Counsellor: Bruno Hochegger. Papers published in partnership: 2
2. Ronak Kurala. MRI in Pulmonary nodules . University of Florida. Counsellor: Bruno Hochegger. Papers published in partnership: 2
- 3, Jessica Shapiro Gemmel. MR in Sarcoidosis. University of Florida. Counsellor: Bruno Hochegger. Papers published in partnership: 2

### **Master's dissertation**

1. Maico Alexandre Nicodem. COMPUTER TOMOGRAFIC COLONOGRAPHY WITH FECAL MARKING FOR COLORETAL POLYPE TRACKING: SYSTEMATIC REVIEW AND METANALYSE. 2022. Dissertation (Master of Arts in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul,. Counsellor: Bruno Hochegger. Papers published in partnership: 1
2. Angela de Figueiredo Pinto Agostini. Magnetic resonance imaging with paramagnetic contrast Gd-EBO-DTPA: relationship with liver function in patients with cirrhosis. 2021. Dissertation (Master of Arts in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul,. Counsellor: Bruno Hochegger. Papers published in partnership: 1
3. João Paulo Leal Schambeck. Magnetic resonance imaging by Elastography in the diagnosis of hepatic fibrosis. 2020. Dissertation (Master of Arts in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul,. Counsellor: Bruno Hochegger. Papers published in partnership: 1
4. Luana Marinho Gonçalves. Association between elastography and doppler in the evaluation of Renal Transplant. 2020. Dissertation (Master of Arts in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul,. Counsellor: Bruno Hochegger.



Papers published in partnership: 2

5. Diego Hermindo Henkes Roman. Diagnostic Evaluation of Prostate Neoplasia: 68Ga-PSMA PET/CT and Multiparametric Magnetic Resonance. 2020. Dissertation (Master of Arts in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul,. Counsellor: Bruno Hochhegger.

Papers published in partnership: 1

6. Tiago Garcia Holz. Quantification of iron in the human brain through magnetic resonance imaging. 2020. Dissertation (Master of Arts in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul,. Counsellor: Bruno Hochhegger.

Papers published in partnership: 2

7. Jonatan William Rodrigues Just. Benign focal liver lesions in heavily diffused magnetic resonance imaging: The role of heavy diffusion imaging (DWI) and apparent diffusion coefficient (ADC) in characterization and differential diagnosis. 2019. Dissertation (Master of Science in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul, National Council for Scientific and Technological Development. Counsellor: Bruno Hochhegger. Papers published in partnership: 1

8. Thiago Krieger Bento Da Silva. High-resolution computed tomography findings in pediatric patients with severe asthma. 2018. Dissertation (Master of Medicine in Pediatrics and Child Health) - Pontifical Catholic University of Rio Grande do Sul,. Co-orientator: Bruno Hochhegger. Papers published in partnership: 2

9. Cristina Sebastiao Matushita. Systematic review and Meta-analysis of Positron Emission Tomography (PET) with Prostate Specific Membrane Antigen (PSMA) marked with 68GA, in Prostate Cancer. 2018. Dissertation (Master of Arts in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul,. Counsellor: Bruno Hochhegger. Papers published in partnership: 1

10. Ricardo Holderbaum of Amaral. Tomographic Assessment of Expiring Bronchiectasies.. 2015. Dissertation (Master's Degree in Pathology) - Foundation Federal University of Health Sciences of Porto Alegre,. Counsellor: Bruno Hochhegger. Papers published in partnership: 3

11. Ana Paula Sartori. Magnetic resonance imaging findings in fungal diseases. 2014. Dissertation (Master's Degree in Pathology) - Foundation Federal University of Health Sciences of Porto Alegre. Counsellor: Bruno Hochhegger. Papers published in partnership: 3

12. Carlos Nin. Use of contrast thoracic radiography in chronic cough. 2014. Dissertation (Master's Degree in Pathology) - Foundation Federal University of Health Sciences of Porto Alegre,. Counsellor: Bruno Hochhegger. Papers published in partnership: 3

13. Vinicius Valerio Souza. Magnetic Resonance Diffusion findings in pulmonary infarction. 2014. Dissertation (Master's Degree in Pathology) - Foundation Federal University of Health

Sciences of Porto Alegre,. Counsellor: Bruno Hochegger. Papers published in partnership: 3

14. Giordano Rafael Tronco Alves. Foundations of Pulmonary Dynamic Hyperinsufflation by Computerized Tomography of the Lung. 2014. Dissertation (Master of Medicine (Radiology)) - Federal University of Rio de Janeiro,. Counsellor: Bruno Hochegger. Papers published in partnership: 9

### **PhD Thesis**

1. Marcia Cristina Gonçalves De Oliveira Moraes. Abbreviated Protocol of MAST MAGNETIC RESONANCE. 2022. Thesis (Doctorate in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul,. Counsellor: Bruno Hochegger. Papers published in partnership: 3

2. Clarice Sprinz. Study of the influence of glucose in the affertions of PET-CT with 18F-FLUORO-DEOXI-GLICOSE (18F-FDG) in normal organs. Analysis of 5623 patients. 2021. Thesis (Doctorate in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul,. Counsellor: Bruno Hochegger. Papers published in partnership: 3

3. Luis Carlos Anflor Junior. USE OF 18F-FDG IN PET/CT IN THE UNIQUE HEALTH SYSTEM AS AN ALTERNATIVE NOT INVASIVE METHOD FOR THE DIAGNOSIS AND STATIONING OF LUNG CANCER. 2021. Thesis (Doctorate in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul,. Counsellor: Bruno Hochegger. Papers published in partnership: 3

4. Stephan Philip Leonhardt Altmayer. Evaluation of computed tomography findings in immunocompetent patients with Covid-19 compared to other viral pneumoniae: systematic review and meta-analysis. 2021. Thesis (Doctorate in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul, Coordination of Advancement of Higher Level Personnel. Counsellor: Bruno Hochegger. Papers published in partnership: 31

5. Douglas Nascimento. Computerized tomography in chronic rejection in transplant. 2020. Thesis (Doctorate in Pathology) - Foundation Federal University of Health Sciences of Porto Alegre. Counsellor: Bruno Hochegger. Papers published in partnership: 4

6. Luciano Urnauer. Influence of the inter-ischiopubic angle and its relationship with the ischiophemoral space. 2020. Thesis (Doctorate in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul. Counselor: Bruno Hochegger. Papers published in partnership: 1

7. Tassia Machado Medeiros. Comparison of whole body magnetic resonance imaging with 18F-FDG PET/CT in the m stage of lung cancer in the endemic area of granulomatous disease. 2020. Thesis (Doctorate in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul,. Counsellor: Bruno Hochegger. Papers published in

partnership: 4

8. Nathalia Guarienti Missima. Performance of Novel Free-Breathing GRASP Reconstruction Techniques in the Identification of Liver Structures and Lesions in a Clinical Population. 2020. Thesis (Doctorate in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul, Coordination of Advancement of Higher Level Personnel. Counsellor: Bruno Hochhegger. Papers published in partnership: 2

9. Francisco de Souza Santos. Characterization of mediastinal lymphadenopathy by nuclear magnetic resonance imaging. 2020. Thesis (Doctorate in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul,. Counsellor: Bruno Hochhegger. Papers published in partnership: 3

10. Rubens Gabriel Feijo Andrade. Bone density in patients with Cystic Fibrosis. 2019. Thesis (Doctorate in Medicine Pediatrics and Child Health) - Pontifical Catholic University of Rio Grande do Sul, Coordination of Advancement of Higher Level Personnel. Counsellor Bruno Hochhegger. Papers published in partnership: 3

11. Leonardo Stone Lake. The use of Intravenous Contrast Whole Body Magnetic Resonance in Multiple Myeloma. 2019. Thesis (Doctorate in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul,. Counsellor: Bruno Hochhegger. Papers published in partnership: 2

12. Giordano Tronco Alves. Halo signal in CT of chest: diagnostic value in immune-competent and immunocompromised patients. 2018. Thesis (Doctorate in Medicine and Health Sciences.) - Pontifical Catholic University of Rio Grande do Sul, National Council for Scientific and Technological Development. Counsellor: Bruno Hochhegger. Papers published in partnership: 12

13. Fernando Ferreira Gazzoni. Foundations of Lung TCAR in Lung Transplant Patients. 2014. Thesis (Doctorate in Pneumological Sciences) - Federal University of Rio Grande do Sul,. Coonsellor: Bruno Hochhegger. Papers published in partnership: 8

14. Betina Scherer. Tomographic findings in pulmonary microsorption of the digestive tract. 2014. Thesis (Doctorate in Pathology) - Foundation Federal University of Health Sciences of Porto Alegre,. Counsellor: Bruno Hochhegger. Papers published in partnership: 5

15. Marcus Chaves. Correlation between the endorsements of computerized angiotomographs of the chest for the diagnosis of pulmonary embolism among emergency practitioners, radiology residents and radiologists. 2013. Thesis (Doctorate in Pneumological Sciences) - Federal University of Rio Grande do Sul, National Council for Scientific and Technological Development. Counsellor: Bruno Hochhegger. Papers published in partnership: 3

## **Medical Doctors/ Research Fellows**

1. Romulo Pasini. Sarcoidosis review . University of Florida. Counsellor: Bruno Hochhegger.  
Papers published in partnership: 3

### **Actual Working:**

2. Joice Carneiro. MRI in Pulmonary MRI . University of Florida. Counsellor: Bruno Hochhegger. Papers published in partnership: 2

3, Segrish Saleen . MR in Sarcoidosis. University of Florida. Counsellor: Bruno Hochhegger.  
Papers published in partnership: 2

## **PUBLICATIONS**

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Throughout my career in academic research, I have authored an impressive more than 410 peer reviewed articles, demonstrating significant contribution in my field. As the first author of 89 articles, I have been instrumental in formulating research hypotheses, conducting detailed investigations, and articulating novel findings. Additionally, my role as senior author on 120 articles underscores my capacity for overseeing complex research projects and mentoring emerging scholars. This portfolio of publications not only establishes my expertise but also significantly contributes to the advancement of scientific knowledge, supporting ongoing academic and practical applications in radiology. My main research areas are:

### 1. Lung cancer

In the last 10 years, I have made significant contributions to the field of radiology and medical imaging, with a particular focus on early detection, diagnosis, and management of malignant pulmonary diseases. My research encompasses the use of advanced imaging techniques for the accurate identification and differentiation of various lung conditions. In a notable study, the BRELT2 trial, our team tackled the challenges of implementing lung cancer screening in developing countries (a). This work has implications for public health policy and the global fight against lung cancer. Furthermore, he has investigated incidental chest findings in coronary CT angiography, providing insights on their management and relevance (b). Hochhegger has also contributed to the Personalised Lung Cancer Screening (PLuS) study, which aims to assess the importance of coexisting chronic conditions in clinical practice and policy (c). In addition, his work on deep learning algorithms for lung cancer diagnosis has contributed to the development of more accurate diagnostic tools and methods (4). Our research on ultra-low-dose computed tomography (CT) (b) focused on the early detection of lung cancer in coronary CT angiography scans among patients with suspected coronary heart disease. This study demonstrated the potential benefits of using ultra-low-dose CT for dual purposes, improving both lung cancer screening and cardiovascular assessments in high-risk patients. We also contributed to the advancement of knowledge in pulmonary hamartoma detection (d) by establishing a new fat detection threshold for multidetector CT findings. This groundbreaking research has the potential to improve the accuracy and reliability of diagnosing these benign lung tumors, leading to better patient outcomes.

Throughout my early career, I aim to enhance the understanding of pulmonary diseases and the development of innovative imaging techniques. His work has left a lasting impact on the field and has helped to improve the diagnosis and management of these conditions for patients worldwide.

- a. Hochhegger B, Camargo S, da Silva Teles GB, Chate RC, Szarf G, Guimarães MD, Gross JL, Barbosa PNVP, Chiarantano RS, Reis RM, Mauad EC, Gheffer M, Sarmiento P, Pereira R, Rocha J, Albuquerque ML, Miotto A, Almeida Dias DC, Franceschini JP, Fernando HC, Dos Santos RS. Challenges of Implementing Lung Cancer Screening in a Developing Country: Results of the Second Brazilian Early Lung Cancer Screening Trial (BRELT2). *JCO Glob Oncol*. 2022 Jan;8:e2100257.
- b. Zanon M, Pacini GS, de Souza VVS, Marchiori E, Meirelles GSP, Szarf G, Torres FS, Hochhegger B. Early detection of lung cancer using ultra-low-dose computed tomography in coronary CT angiography scans among patients with suspected coronary heart disease. *Lung Cancer*. 2017 Dec;114:1-5. PubMed PMID: 29173759.
- c. Braithwaite D, Karanth SD, Slatore CG, Zhang D, Bian J, Meza R, Jeon J, Tammemagi M, Schabath M, Wheeler M, Guo Y, Hochhegger B, Kaye FJ, Silvestri GA, Gould MK. Personalised Lung Cancer Screening (PLuS) study to assess the importance of coexisting chronic conditions to clinical practice and policy: protocol for a multicentre observational study. *BMJ Open*. 2022 Jun 22;12(6):e064142. doi: 10.1136/bmjopen-2022-064142. PMID: 3532383; PMCID: PMC9226937.
- d. Hochhegger B, Nin CS, Alves GR, Hochhegger DR, de Souza VV, Watte G, Irion KL, Guimarães MD, Marchiori E. Multidetector Computed Tomography Findings in Pulmonary Hamartomas: A New Fat Detection Threshold. *J Thorac Imaging*. 2016 Jan;31(1):11-4. PubMed PMID: 26447871.

## 2. Pulmonary nodules

In the last 10 years we have also studied the evaluation and management of lung nodules and advancements in lung cancer screening techniques. In one study, we examined the impact of lung parenchyma attenuation on nodule volumetry in lung cancer screening (a). The findings from this research can help refine lung cancer screening techniques and improve the accuracy of detecting nodules, ultimately aiding in the early diagnosis and treatment of lung cancer. We also perform a systematic review and meta-analysis on the use of three-dimensional virtual planning for nodule resection in solid organs (b). The study's results have significant implications for the planning and execution of surgical procedures, ultimately improving patient outcomes and the overall success of these operations. In another publication, our team investigated factors associated with subcentimeter pulmonary nodule outcomes followed with computed tomography imaging in oncology patients (c). This research is crucial for understanding the characteristics of these nodules and determining their significance in patients with cancer, which can help guide treatment decisions. Furthermore, we published a study that analyzed the variable radiological lung nodule evaluation leading to divergent

management recommendations (d). This work emphasizes the challenges in nodule evaluation and highlights the importance of standardizing the assessment process to ensure consistent and accurate management recommendations for patients. In summary, I have made significant contributions to the field of radiology and pulmonary medicine, with a focus on lung nodule evaluation and management. My research has advanced lung cancer screening techniques, improved the understanding of pulmonary nodules, and helped refine treatment decisions and surgical planning for better patient outcomes.

- a. Penha D, Pinto E, Hochhegger B, Monaghan C, Marchiori E, Taborda-Barata L, Irion K. The impact of lung parenchyma attenuation on nodule volumetry in lung cancer screening. *Insights Imaging*. 2021 Jun 25;12(1):84. doi: 10.1186/s13244-021-01027-0. PMID: 34170410; PMCID: PMC8233433.
- b. Zanon M, Altmayer S, Watte G, Pacini GS, Mohammed TL, Marchiori E, Pinto Filho DR, Hochhegger B. Three-dimensional virtual planning for nodule resection in solid organs: A systematic review and meta-analysis. *Surg Oncol*. 2021 Sep;38:101598. doi: 10.1016/j.suronc.2021.101598. Epub 2021 Apr 30. PMID: 33962214.
- c. de Moraes AQ, da Silva TPF, Braga JCD, Teixeira DFD, Barbosa PNVP, Haddad FJ, Gross JL, Santana PRP, Hochhegger B, Marchiori E, Guimarães MD. Factors associated with subcentimeter pulmonary nodule outcomes followed with computed tomography imaging in oncology patients. *Eur J Radiol Open*. 2020 Sep 30;7:100266. doi: 10.1016/j.ejro.2020.100266. PMID: 33024797; PMCID: PMC7528186.
- d. Nair A, Bartlett EC, Walsh SLF, Wells AU, Navani N, Hardavella G, Bhalla S, Calandriello L, Devaraj A, Goo JM, Klein JS, MacMahon H, Schaefer-Prokop CM, Seo JB, Sverzellati N, Desai SR; Lung Nodule Evaluation Group; Lung Nodule Evaluation Group. Variable radiological lung nodule evaluation leads to divergent management recommendations. *Eur Respir J*. 2018 Dec 20;52(6):1801359. doi: 10.1183/13993003.01359-2018. PMID: 30409817.

### 3. MR of Chest

My magnetic resonance work has the main objective of performing advancements in diagnostic accuracy and the overall understanding of pulmonary diseases. In a study in our group, the combined use of chest MRI and CT was investigated for assessing interstitial lung disease progression in patients with systemic sclerosis with very promising results (a). This research has the potential to improve patient care and management by providing more accurate and comprehensive assessments of disease progression and decrease radiation exposure. We also publish a meta-analysis examining the diagnostic accuracy of fluorine 18-FDG PET/CT and diffusion-weighted MRI for differentiating malignant from benign pulmonary lesions (b). This research has helped to refine diagnostic methods and identify the most appropriate imaging techniques for accurate diagnosis and treatment planning with extensive citations in literature. In another study, our team compared the diagnostic value of magnetic

resonance imaging (MRI) to computed tomography (CT) in evaluating fat-containing thoracic lesions (c). This research has implications for refining diagnostic tools and improving the accuracy of lesion characterization, which is critical for optimal patient management. Furthermore, we develop a larger study about the accuracy of MRI for pulmonary nodules in granulomatous disease-endemic regions (d). This work highlights the challenges and considerations in choosing appropriate imaging techniques for accurate diagnosis in regions where certain diseases are more prevalent.

- a. Hochegger B, Lonzetti L, Rubin A, de Mattos JN, Verma N, Mohammed TH, Patel PP, Marchiori E. Chest MRI with CT in the assessment of interstitial lung disease progression in patients with systemic sclerosis. *Rheumatology (Oxford)*. 2022 Nov 2;61(11):4420-4426. doi: 10.1093/rheumatology/keac148. PMID: 35258556.
- b. Basso Dias A, Zanon M, Altmayer S, Sartori Pacini G, Henz Concatto N, Watte G, Garcez A, Mohammed TL, Verma N, Medeiros T, Marchiori E, Irion K, Hochegger B. Fluorine 18-FDG PET/CT and Diffusion-weighted MRI for Malignant versus Benign Pulmonary Lesions: A Meta- Analysis. *Radiology*. 2019 Feb;290(2):525-534. PubMed PMID: 30480492.
- c. Hochegger B, Zanon M, Patel PP, Verma N, Eifer DA, Torres PPTES, Souza AS, Souza LVS, Mohammed TL, Marchiori E, Ackman JB. The diagnostic value of magnetic resonance imaging compared to computed tomography in the evaluation of fat-containing thoracic lesions. *Br J Radiol*. 2022 Dec 1;95(1140):20220235. doi: 10.1259/bjr.20220235. Epub 2022 Oct 14. PMID: 36125174; PMCID: PMC9733611.
- d. Concatto NH, Watte G, Marchiori E, Irion K, Felicetti JC, Camargo JJ, Hochegger B. Reply to Letter to the Editor re: Magnetic resonance imaging of pulmonary nodules: accuracy in a granulomatous disease-endemic region. *Eur Radiol*. 2017 Oct;27(10):4017-4018. PubMed PMID: 28477170.

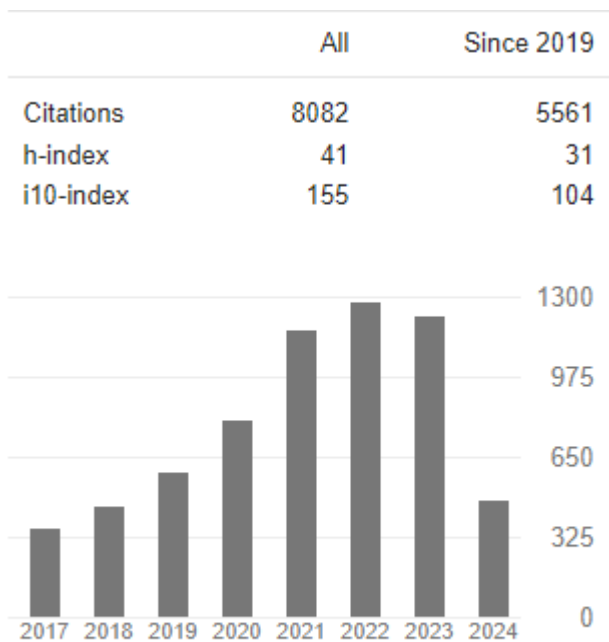
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**PUBMED**

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**GOOGLE SCHOLAR**

<https://scholar.google.com.br/citations?user=BnKs7toAAAAJ&hl=en>



1: de Oliveira GS, Torri GB, Gandolfi FE, Dias AB, Tse JR, Francisco MZ, Hochhegger B, Altmayer S. Computed tomography versus ultrasound for the diagnosis of acute cholecystitis: a systematic review and meta-analysis. *Eur Radiol.* 2024 May 17. doi: 10.1007/s00330-024-10783-8. Epub ahead of print. PMID: 38758253.

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- 406: Marchiori E, Hochhegger B, Irion KL. Pulmonary epithelioid hemangioendothelioma presenting as multiple large calcified nodules. *Arch Bronconeumol*. 2010 Feb;46(2):103-4. English, Spanish. doi: 10.1016/j.arbres.2009.09.005. Epub 2009 Oct 12. PMID: 19819604.
- 407: Hochhegger B, Marchiori E, Irion KL, Santos de Melo G, Mendes F, Zanetti G. Psittacosis presenting as a halo sign on high-resolution computed tomography. *J Thorac Imaging*. 2009 May;24(2):136-7. doi: 10.1097/RTI.0b013e318191987e. PMID: 19465839.
- 408: Hochhegger B, Irion KL, Marchiori E, Bello R, Moreira J, Camargo JJ. Computed tomography findings of postoperative complications in lung transplantation. *J Bras Pneumol*. 2009 Mar;35(3):266-74. English, Portuguese. doi: 10.1590/s1806-37132009000300012. PMID: 19390726.
- 409: Hochhegger B. Re: Respiratory instructions for CT examinations of the lungs. *Radiographics*. 2009 Mar-Apr;29(2):637; author reply 637-8. doi: 10.1148/radiographics.29.2.0290637. PMID: 19325073.
- 410: Hochhegger B. CT of pulmonary emphysema: current status, challenges, and future directions. *Eur Radiol*. 2009 Jul;19(7):1696; author reply 1967. doi: 10.1007/s00330-009-1323-8. Epub 2009 Feb 24. PMID: 19238397.
- 411: Irion KL, Marchiori E, Hochhegger B, Porto Nda S, Moreira Jda S, Anselmi CE, Holemans JA, Irion PO. CT quantification of emphysema in young subjects with no recognizable chest disease. *AJR Am J Roentgenol*. 2009 Mar;192(3):W90-6. doi: 10.2214/AJR.07.3502. PMID: 19234245.
- 412: Marchiori E, Escuissato DL, Irion KL, Zanetti G, Rodrigues RS, Meirelles GS, Hochhegger B. Extramedullary hematopoiesis: findings on computed tomography scans of the chest in 6 patients. *J Bras Pneumol*. 2008 Oct;34(10):812-6. English, Portuguese. doi: 10.1590/s1806-37132008001000009. PMID: 19009214.
- 413: Camargo JJ, Irion KL, Marchiori E, Hochhegger B, Porto NS, Moraes BG, Meyer G, Caramori M, Holemans JA. Computed tomography measurement of lung volume in preoperative assessment for living donor lung transplantation: volume calculation using 3D surface rendering in the determination of size compatibility. *Pediatr Transplant*. 2009 Jun;13(4):429-39. doi: 10.1111/j.1399-3046.2008.01016.x. Epub 2008 Oct 9. PMID: 18992057.
- 414: Irion KL, Gasparetto TD, Marchiori E, Hochhegger B, Rubin AS. Neurofibromatosis type 1 with tracheobronchial neurofibromas: case report with emphasis on tomographic findings. *J Thorac Imaging*. 2008 Aug;23(3):194-6. doi: 10.1097/RTI.0b013e31816b6bc0. PMID: 18728548.
- 415: Irion KL, Hochhegger B, Marchiori E, Porto Nda S, Baldisserotto Sde V, Santana PR. Radiograma de tórax e tomografia computadorizada na avaliação do enfisema pulmonar [Chest X-ray and computed tomography in the evaluation of

pulmonary emphysema]. *J Bras Pneumol*. 2007 Nov-Dec;33(6):720-32. Portuguese. doi: 10.1590/s1806-37132007000600017. PMID: 18200374.

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### **Book Chapter Published**

1. Hochhegger B. Collagen vascular diseases and vasculitis. In: *Problem Solving in Chest Imaging* By Subba R. Digumarthy, Suhny Abbara, Jonathan H. Chung. Elsevier 2021. p. 336-47.
2. Hochhegger B, Bello R, Porto NS, Marchiori E, Irion KL. In: Corrêa da Silva LC, editor. *Porto Alegre-RS: ARTMED*; 2012. p. 89-104.
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4. Moreira JS, Camargo JJ, Hochhegger B, Camargo SM. In: Corrêa da Silva LC, editor. *Porto Alegre-RS: ARTMED*; 2012. p. 368-376.
5. Hochhegger B, Irion KL, Souza Junior AS, Marchiori E. In: Corrêa da Silva LC, editor. *Porto Alegre-RS: ARTMED*; 2012. p. 401-404.
6. Hochhegger B, Santos C, Irion KL. In: Corrêa da Silva LC, editor. *Porto Alegre-RS: ARTMED*; 2012. p. 463-466.
7. Moreira JS, Geyer G, Hochhegger B, Camargo JJ. In: Corrêa da Silva LC, editor. *Porto Alegre-RS: ARTMED*; 2012. p. 565-583.
8. Meyer G, Spilimbergo FB, Puchalski M, Hochhegger B, Silva SB. In: Corrêa da Silva LC, editor. *Porto Alegre-RS: ARTMED*; 2012. p. 607-626.
9. Camargo JJ, Machuca TN, Hochhegger B. In: Corrêa da Silva LC, editor. *Porto Alegre-RS: ARTMED*; 2012. p. 963-974.
10. Hochhegger B, Marchiori E, Irion KL, Santos C, Porto NS, Bello R. In: Corrêa da Silva LC, editor. *Porto Alegre-RS: ARTMED*; 2012. p. 105-113.
11. Souza Junior AS, Hochhegger B, Irion KL. In: Muller NL, Silva CIS, editors. *São Paulo-SP: Elsevier*; 2010. p. 475-482.
12. Hochhegger B, Werlang H, Cremonese RV, Paggi AP. In: Werlang HZ, Bergoli PM, Madalosso BH, editors. 2nd ed. *Rio de Janeiro-RJ: Guanabara Koogan*; 2009. p. 75-82.
13. Werlang H, Hochhegger B. In: Werlang HZ, Bergoli PM, Madalosso BH, editors. 2nd ed. *Rio de Janeiro-RJ: Guanabara Koogan*; 2009. p. 307-313.

## Invited Lectures

I have been invited to present at numerous conferences, symposiums, and meetings, in 3 different continents. The lectures cover a wide range of topics in thoracic radiology, from lung cancer screening and AI applications to MRI techniques and diagnosis of various pulmonary diseases.

1. Agile Meeting to Lung cancer screening 2024. AI in Lung cancer screening, Madrid, Spain.
2. Society of Thoracic Imaging 2024. MRI in Fungal diseases. Charleston, USA.
3. Eastern Pulmonary Conference 2023. AI in Imaging: an imaging is better than 100 words. Miami, US.
4. VII International Symposium on Lung Cancer Oncology D Or.Hot Topic on New Technologies in tracking. 2022. (Symposium). Brazil
5. Manchester Medical Society Pan Section COVID 19 symposium Research and Well-being during the Covid-19 Pandemic . Radiography and CT findings in COVID. 2021. England
6. Society of Thoracic Imaging 2023. MRI in Pulmonary Nodules. Charleston, USA.
7. Scientific Meeting APPT, Topic: Asthma.Back to the future in the diagnosis and treatment of asthma in 2020 and beyond. 2020.Curitiba Brazil.
8. 49th Jornada Paulista de Radiologia (JPR 2019) / 1st Meeting of Interventionist Radiology.Conferencing on the Tórax course, with the theme Occupational Pulmonary Diseases.. 2019.São Paulo Brazil.
9. 49th Jornada Paulista de Radiologia (JPR 2019) / 1st Meeting of Interventionist Radiology.Conferencing on the Tórax course, with the theme Magnetic Resonance in Pulmonary and Pleural Diseases. 2019.São Paulo Brazil.
10. 48th Jornada Paulista de Radiologia (JPR 2018).Conferencing on the Tórax course, with the theme Pulmonary Lymphoproliferative Diseases. 2018.São Paulo Brazil.
11. 48th Jornada Paulista de Radiologia (JPR 2018).Conferencing on the Tórax course, with the theme TóraX Magnetic Resonance: News. 2018.São Paulo Brazil.
12. XXVIII Gaucha meeting of Radiology.Lecturer on the topic "What I should report in interstitial pneumology that impact on medical conduct". 2018. (Seminary).São Paulo Brazil.
13. XXVIII Gauchameeting of Radiology.He coordinated the General Radiology Module of Scientific Programming. 2018. (Seminary).São Paulo Brazil.
14. XXVIII Gauchameeting of Radiology.Talker, addressing the topic "RNM Protocols for Pulmonary Hypertension". 2018. (Seminary).São Paulo Brazil.
15. 47th Paulist meeting of Radiology (JPR 2017).conferencing on the course Oncology, with the theme Lung RADS. 2017.São Paulo Brazil.
16. 47th Paulist meeting of Radiology (JPR 2017).conferencing on the Tórax course, with the theme Characterization: TC, RM and PET/CT. 2017.São Paulo Brazil.

17. 47th Paulist meeting of Radiology (JPR 2017).conferencing on the Tórax course, with the theme RM of Torax: Update. 2017.São Paulo Brazil.
18. 47th Paulist meeting of Radiology (JPR 2017).Moderator at the Tórax Course. 2017.São Paulo Brazil.
19. 47th Paulist Meeting of Radiology (JPR 2017). 2017.São Paulo Brazil.
20. 46th Paulist meeting of Radiology (JPR'2016).Conferencing on the Tórax course, with the theme Subsolid Node Monitoring Protocols: Fleischner. 2016.São Paulo Brazil.
21. 46h Paulist meeting of Radiology (JPR'2016).conferencing on the Tórax course, with the theme Diseases of the Airways. 2016.São Paulo Brazil.
22. 46th Paulist meeting of Radiology (JPR'2016).Moderator at the Tórax Course. 2016.
23. XLV Brazilian Congress of Radiology. Thorax. 2016.São Paulo Brazil.
24. II National Course of Updating in Pneumology.Radiological Tour - lung cancer screening. 2016. Rio de Janeiro, Brazil.
25. XVII National Course of Updating in Pneumology.Thorax radiography: what I can't help seeing. 2016. Rio de Janeiro, Brazil.
26. XVII National Course of Updating in Pneumology.Radiological Tour - Cystic Diseases. 2016. Rio de Janeiro, Brazil.
27. XXXVIII Brazilian Congress of Pneumology and Tsiology. Speaker on the subject Semi-solid pulmonary nodule. 2016. Rio de Janeiro, Brazil.
28. XXVIII Brazilian Congress of Pneumology and Tsiology. Lecturer of the Pre-Congress Image Course, with the theme Tracking lung cancer. 2016. Rio de Janeiro, Brazil.
29. XXVIII Brazilian Congress of Pneumology and Tsiology. Speaker of the Pre-Congress Image Course, with the theme Semi-solid pulmonary nodule. 2016. Rio de Janeiro, Brazil.
30. XXXVIII Brazilian Congress of Pneumology and Tsiology. Speaker of the Pre-Congress Image Course, with the theme TCAR: airway diseases. 2016. Rio de Janeiro, Brazil.
31. XXXVIII Brazilian Congress of Pneumology and Tsiology. 2016. Rio de Janeiro, Brazil.
32. XXXVIII Brazilian Congress of Pneumology and Tsiology. Coordinator of the Image Pre-Congress Course, with the image theme. 2016. Rio de Janeiro, Brazil.
33. XXXVIII Brazilian Congress of Pneumology and Tsiology. Speaker on the subject, TCAR: variants of normality. 2016. Rio de Janeiro, Brazil.
34. XXXVIII Brazilian Congress of Pneumology and Tsiology. Speaker on the subject, Lung Cancer Tracking. 2016. Rio de Janeiro, Brazil.
35. XXXVIII Brazilian Congress of Pneumology and Tsiology. Speaker of the Pre-Congress Image Course, with the theme TCAR: variants of normality. 2016. Rio de Janeiro, Brazil.
36. 45th Paulist Meeting of Radiology (JPR'2015) / 1st Encontro Brasil-Península Ibérica.Moderator in the Course Tórax. 2015. Sao Paulo, Brazil.
37. 45th Paulist Meeting of Radiology (JPR'2015) / 1st Encounter Brazil-Iberian Peninsula. 2015. Sao Paulo, Brazil.
38. 45th Paulist Meeting of Radiology (JPR'2015) / 1st Encontro Brasil- Península Ibérica.as lecturer in the Tórax course, with the theme Diseases of the Airways. 2015.Sao Paulo, Brazil.
39. 45th Paulist Meeting of Radiology (JPR'2015) / 1st Encontro Brasil- Península Ibérica.conferencista in the course Tórax, with the theme RM: How I Do and what the Method Brings New. 2015.Sao Paulo, Brazil.
40. 44th Paulist Meeting of Radiology (JPR 2014). 2014. (Chest Radiograh).Sao Paulo, Brazil.
41. 44th Paulist Meeting of Radiology (JPR 2014).conferencing on the Tórax course, with

- the theme Optimized Technique for Angiotomography and Angioresonance. 2014.Sao Paulo, Brazil.
42. 44th Paulist Meeting of Radiology (JPR 2014).conferencing on the Tórax course, with the theme The Role of MRI to Diagnose Pulmonary Nodules. 2014.Sao Paulo, Brazil.
  43. 4th World Congress on Ultrasonography in Medicine and Biology (WFUMB 2013)/16th Latin American Congress of Ultrasound (FLAUS 2013)/43th Paulist Meeting of Radiology (JPR'2013). 2013.Sao Paulo, Brazil.
  44. II South American Symposium of Pediatrics. Advances in imaging diagnosis in Pneumopediatrics. 2012.Sao Paulo, Brazil.
  45. Thoracic Imaging Seminar.Pulmonary nodules in CT and Lung Cancer Tracking. 2012. (Seminary).Sao Paulo, Brazil.
  46. Thoracic Imaging Seminar.Computerized tomography in Lung Cancer. 2012. (Seminary).Sao Paulo, Brazil.
  47. Thoracic Imaging Seminar.Magnetic Resonance in Lung Cancer. 2012. (Seminary).Sao Paulo, Brazil.
  48. Thoracic Image Seminar.DPOC: Aspects by Image. 2012. (Seminary).Sao Paulo, Brazil.
  49. Thoracic Image Seminar.New concepts in Interstitial Diseases. 2012. (Seminary).Sao Paulo, Brazil.
  50. Thoracic Imaging Seminar.Guided CT scan. 2012. (Seminary).Sao Paulo, Brazil.
  51. X Southern Journey of Radiology. New concepts in Idiopathic Interstitial Pneumonia: The Role of the Radiologist. 2012.Sao Paulo, Brazil.
  52. XV Symposium Winter Diseases. Imaging Methods in Adult and Child Pneumology. 2012. (Symposium).Sao Paulo, Brazil.
  53. XVI Brazilian Congress of Pneumology and Tsiology. Applicability of helicoidal tomography and resonance imaging. 2012.Sao Paulo, Brazil.
  54. XXXVI Brazilian Congress of Pneumology and Tsiology. Magnetic resonance imaging. 2012. Sao Paulo, Brazil.
  55. XXXVI Brazilian Congress of Pneumology and Tsiology. Clinical cases: Pneumopediatrics. 2012.Sao Paulo, Brazil.
  56. XXXVI Brazilian Congress of Pneumology and Tsiology. The role of computed tomography in COPD. 2012.Sao Paulo, Brazil.
  57. XXXVI Brazilian Congress of Pneumology and Tsiology. Thromboembolic lung disease. 2012.Sao Paulo, Brazil.
  58. Thoracic Radiology Meeting.DPOC: Phenotypes by Images. 2011.Sao Paulo, Brazil.
  59. Thoracic Radiology Meeting.Applications in the MRI of the chest. 2011. Sao Paulo, Brazil.
  60. Road to the Future - Circuito Alto do Jacuí.Remote diagnosis. 2011. Sao Paulo, Brazil.
  61. Med&Tel Luxembourg by ISfTeH.MedNet project: telemedicine in Latin America. 2011. Luxembourg.
  62. MED IMAGEM - Hospital Beneficencia Portuguesa - SP.Current aspects of magnetic resonance imaging of the chest and the whole body. 2011. Sao Paulo, Brazil.
  63. MED IMAGEM - Hospital Beneficencia Portuguesa - SP.Papel of RM in the evaluation of patients with lung cancer and pulmonary thromboembolism. 2011.Sao Paulo, Brazil.
  64. Pre-Meeting Club Manoel de Abreu.Pulmonary enphysema. 2011.Sao Paulo, Brazil.
  65. Pre-Meeting Club Manoel de Abreu.Phenotyping of the COPD by imaging methods. 2011.Sao Paulo, Brazil.
  66. Meeting of the Club Manoel de Abreu.What is the role of magnetic resonance imaging . 2011.Sao Paulo, Brazil.

67. Meeting of the Club Manoel de Abreu. Ca of the lung: MRI approach. 2011. Sao Paulo, Brazil.
68. Meeting of the Club Manoel de Abreu. 2011. Sao Paulo, Brazil.
69. V Symposium Winter Diseases - Rhinitis, Rhinosinusitis and Asthma and XII Workshop of Pediatric Otorinolaringology and XII Interactive Forum of Otitis. United Airways Session: Round Table discussion of cases. 2011. (Symposium). Sao Paulo, Brazil.
70. XIV Symposium Winter Diseases - Rhinitis, Rhinosinusitis and Asthma and XII Workshop of Pediatric Otorinolaringology and XII Interactive Forum of Otitis. Session United Airways: Care to reduce the risks of radiation in imaging examinations in adults and children. 2011. Sao Paulo, Brazil. (Symposium).
71. XXI Gaucha Meeting of Radiology. Thoracic MRI in lung cancer: a cheap alternative to PET-TC. 2011. Sao Paulo, Brazil.
72. XXI Gaucha Meeting of Radiology. Thoracic MRI in paediatrics: do we really need CT 2011. Sao Paulo, Brazil.
73. XXI Gaucha Meeting of Radiology. Chronic obstructive pulmonary disease: what the doctor needs to know. 2011. Sao Paulo, Brazil.
74. XX Gaucha Meeting of Radiology. 2010. Chest X-Ray : Basics. Sao Paulo, Brazil.
75. XX Gaucha Meeting of Radiology. Module: Tórax - Applications of pulmonary magnetic resonance imaging: where are we and where we are going . 2010. Sao Paulo, Brazil.
76. XXXIX Brazilian Congress of Radiology. 2010. Chest X-ray : Basics. Sao Paulo, Brazil.
77. 2009 Introduction to Research for International Young Academics Seminar. 2009. (Seminary). Sao Paulo, Brazil.
78. III Congress of Oncology of Hospital Santa Rita. Panelist: Nuclear magnetic resonance imaging - Module: Onco-Pneumology. 2009. Sao Paulo, Brazil.
79. IX Radiology Meeting and III Meeting of former residents of Radiology of the Holy House. 2009. Sao Paulo, Brazil.
80. XXXVIII Brazilian Congress of Radiology. Coronary artery anomalies: pathophysiology, clinical relevance and role of multidetector computed tomography. 2009. Sao Paulo, Brazil.
81. 38th Paulista Meeting of Radiology - JPR'2008. Positron emission tomography (pet) in non-small cell lung cancer. 2008. Sao Paulo, Brazil.
82. 38th Paulista Meeting of Radiology - JPR'2008. 2008. Chest X-ray : Basics. Sao Paulo, Brazil.
83. European Respiratory Congress. Variation in emphysema index measurement in 64 multidetector-row computed tomography. 2008. Berlin, Germany.
84. Series Masters in Radiology: Multidisciplinary Approach to Chest Diseases. Chronic Obstructive Pulmonary Disease. 2008. (Seminary). Manchester , UK.
85. UK Radiological Congress 2008. Variation in emphysema index measurement in 64 multi detector-row computed tomography. 2008. London, UK.
86. XIX Gaucha Meeting of Radiology and Diagnosis by Image. Image findings of pancreatoblastoma: a case report and literature review. 2008. Berlin, Germany.
87. XXXIV Brazilian Congress of Pneumology and Tisiology, VI ALAT, V Luso-Brazilian Congress on Pneumatology, XVI Ibero-American Congress of Thoracic Surgery and X Brazilian Congress of Respiratory Endoscopy. Mediastinum anatomy using 3DCT images to facilitate the understanding of mediastinum in plain film. 2008. Sao Paulo, Brazil.



88. 37th Paulista Meeting of Radiology - JPR'2007. Baltazar Classic versus Baltazer Modified in the prognostic evaluation of patients with acute pancreatitis. 2007. Sao Paulo, Brazil.
89. II Meeting of Radiological Techniques of Santa Casa. TC Multislice, differences and advantages over the TC Helicoidal Simples. 2007. Sao Paulo, Brazil..

### **Scientific Journal Reviewer**

2008 - Present Journal: European Radiology

2011 - Present Journal: Jornal Brasileiro de Pneumologia

2011 - Present Journal: Thoracic Cancer

2013 - Present Journal: RB. Radiologia Brasileira (Impresso)

2013 - Present Journal: Brazilian Journal of Medical and Biological Research

2013 - Present Journal: American Journal of Roentgenology (1976. Print)

2013 - Present Journal: Acta Radiologica (1987)

2013 - Present Journal: Journal of Magnetic Resonance Imaging (Print)

2022 - Present Journal: Radiology Cardiothoracic

## LIST OF REFERENCES

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