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Name : Professor Alain LUCIANI, MD, PhD

CNOM 94/13560, RPPS 10001530772

Title : Full Professor of Radiology

University Paris Est Creteil (UPEC) – Medical School of Creteil – Academic Hospital CHU Henri Mondor, APHP

Research Team INSERM IMRB U955 Team 18

Radiology Department, Imagerie Médiale, CHU Henri Mondor, AP-HP ; 51 Ave Mal de Lattre de Tassigny, 94010 Créteil Cedex, France;
phone : +33 1 49 81 26 31

Mail: alain.luciani@aphp.fr

Academic Titles

- **2008 : Research Habilitation (HDR)**, Ecole Doctorale Sciences Vie Santé, UPEC
- **2007 : PhD: Tissular Imaging of the Liver-** Ecole Doctorale Sciences Ingénierie : Matériaux – Modélisation – Environnement (SIMME), Spécialité Radiobiologie Radiopathologie (UPEC).
- **2002 : Medical Thesis.** « Glucose Receptor Imaging using MRI».
- **2002 : MD Diploma, Radiology and Medical Imaging specialization**
- **2001 : Master Degree Génie Biologique et Médical**, UPEC
- **2000: Master M1 Degree** – Molecular Biology, Oncology subspecialty (Pr Kaplan-Pr Brechot-Cochin-Necker), Biochemistry (Pr Leroux- Faculté Necker Enfants Malades), Immunology (Pr Bach- Faculté Necker Enfants Malades).

Last Publications 2019/2024

Publications (2019-2024): n= 69 ; Individual SIGAPS (2019-2024):864; Individual SIGAPS overall: 2514) 217 Publications

[1–69]

1. Mulé S, Ronot M, Ghosn M, et al (2023) Automated CT LI-RADS v2018 scoring of liver observations using machine learning: A multivendor, multicentre retrospective study. JHEP Rep 5:100857. <https://doi.org/10.1016/j.jhepr.2023.100857>
2. Daval-Frérôt G, Massire A, Mailhé B, et al (2023) Deep learning-assisted model-based off-resonance correction for non-Cartesian SWI. Magn Reson Med 90:1431–1445. <https://doi.org/10.1002/mrm.29738>
3. Belkouchi Y, Lederlin M, Ben Afia A, et al (2023) Detection and quantification of pulmonary embolism with artificial intelligence: The SFR 2022 artificial intelligence data challenge. Diagn Interv Imaging 104:485–489. <https://doi.org/10.1016/j.diii.2023.05.007>
4. Reizine E, Blain M, Pescatori L, et al (2023) Applicability of Bosniak 2019 for renal mass classification on portal venous phase at the era of spectral CT imaging using rapid kV-switching dual-energy CT. Eur Radiol. <https://doi.org/10.1007/s00330-023-10145-w>
5. Stehlé T, Ouamri Y, Morel A, et al (2023) Development and validation of a new equation based on plasma creatinine and muscle mass assessed by CT scan to estimate glomerular filtration rate: a cross-sectional study. Clin Kidney J 16:1265–1277. <https://doi.org/10.1093/ckj/sfad012>
6. Brustia R, Bouattour M, Allaire M, et al (2023) Impact of COVID-19 on the management of hepatocellular carcinoma in a high-prevalence area: What's new 12 months later? Ann Hepatol 28:101141. <https://doi.org/10.1016/j.aohep.2023.101141>
7. Rhaïem R, Sommacale D, Zimmermann P, et al (2023) Anterior Versus Classical Approach During Right Hepatectomy for Hepatocellular Carcinoma: Inverse Propensity Score Weighted Analysis. J Gastrointest Surg. <https://doi.org/10.1007/s11605-023-05741-6>
8. Pigneur F, Luciani A, Ghosn M, et al (2023) Skeletal Muscle Density Is Highly Dependent on CT Instrumentation. Radiology 307:e222839. <https://doi.org/10.1148/radiol.222839>
9. Derbel H, Krichen M, Chalaye J, et al (2023) Accuracy and reproducibility of a cone beam CT-based virtual parenchymal perfusion algorithm in the prediction of SPECT/CT anatomical and volumetric results during the planification of radioembolization for HCC. Eur Radiol 33:3510–3520. <https://doi.org/10.1007/s00330-023-09390-w>
10. Couteaux V, Zhang C, Mulé S, et al (2023) Synthetic MR image generation of macrotrabecular-massive hepatocellular carcinoma using generative adversarial networks. Diagn Interv Imaging 104:243–247. <https://doi.org/10.1016/j.diii.2023.01.003>
11. Vidal V, Boyer L, Luciani A, SFR-CNES collaborative group (2023) Bringing Interventional Radiology to Mars! Cardiovasc Intervent Radiol 46:425–427. <https://doi.org/10.1007/s00270-023-03392-3>
12. Jenvrin A, Galletto-Pregliasco A, Audureau E, et al (2023) Intentional R1 resection of liver metastases: A new treatment paradigm for patients with advanced colorectal cancer based on a propensity score-Matched case-control analysis. Clin Res Hepatol Gastroenterol 47:102097. <https://doi.org/10.1016/j.clinre.2023.102097>
13. Féray C, Campion L, Mathurin P, et al (2023) TACE and conformal radiotherapy vs. TACE alone for hepatocellular carcinoma: A randomised controlled trial. JHEP Rep 5:100689. <https://doi.org/10.1016/j.jhepr.2023.100689>
14. Becq A, Laurent A, De Roux Q, et al (2023) Long-Term Results of Endoscopic Metal Stenting for Biliary Anastomotic Stricture after Liver Transplantation. J Clin Med 12:1453. <https://doi.org/10.3390/jcm12041453>
15. Mulé S, Serhal A, Pregliasco AG, et al (2023) MRI features associated with HCC histologic subtypes: a western American and European bicenter study. Eur Radiol 33:1342–1352. <https://doi.org/10.1007/s00330-022-09085-8>
16. Mulé S, Lawrence L, Belkouchi Y, et al (2022) Generative adversarial networks (GAN)-based data augmentation of rare liver cancers: The SFR 2021 Artificial Intelligence Data Challenge. Diagn Interv Imaging S2211-5684(22)00171–1. <https://doi.org/10.1016/j.diii.2022.09.005>
17. Mulé S, Kharrat R, Zerbib P, et al (2022) Fast T2-weighted liver MRI: Image quality and solid focal lesions conspicuity using a deep learning accelerated single breath-hold HASTE fat-suppressed sequence. Diagn Interv Imaging 103:479–485. <https://doi.org/10.1016/j.diii.2022.05.001>

18. Reizine E, Mulé S, Luciani A (2022) Focal Benign Liver Lesions and Their Diagnostic Pitfalls. *Radiol Clin North Am* 60:755–773. <https://doi.org/10.1016/j.rcl.2022.05.005>
19. Reizine E, Meurgey A, Amaddeo G, et al (2022) Fat in mass in primary liver lesions: are usual MRI diagnostic criteria of both malignant and benign liver lesions still applicable? *Abdom Radiol (NY)* 47:2347–2355. <https://doi.org/10.1007/s00261-022-03561-x>
20. Minssen L, Dao TH, Quang AV, et al (2022) Breast arterial calcifications on mammography: a new marker of cardiovascular risk in asymptomatic middle age women? *Eur Radiol* 32:4889–4897. <https://doi.org/10.1007/s00330-022-08571-3>
21. Vermersch M, Emsen B, Monnet A, et al (2022) Chest PET/MRI in Solid Cancers: Comparing the Diagnostic Performance of a Free-Breathing 3D-T1-GRE Stack-of-Stars Volume Interpolated Breath-Hold Examination (StarVIBE) Acquisition With That of a 3D-T1-GRE Volume Interpolated Breath-Hold Examination (VIBE) for Chest Staging During Whole-Body PET/MRI. *J Magn Reson Imaging* 55:1683–1693. <https://doi.org/10.1002/jmri.27981>
22. Ramtohl T, Vilgrain V, Soubrane O, et al (2022) Impact of Extended Use of Ablation Techniques in Cirrhotic Patients with Hepatocellular Carcinoma: A Cost-Effectiveness Analysis. *Cancers (Basel)* 14:2634. <https://doi.org/10.3390/cancers14112634>
23. Burns R, Mulé S, Blanc-Durand P, et al (2022) Optimization of whole-body 2-[18F]FDG-PET/MRI imaging protocol for the initial staging of patients with myeloma. *Eur Radiol* 32:3085–3096. <https://doi.org/10.1007/s00330-021-08388-6>
24. Hobeika C, Guyard C, Sartoris R, et al (2022) Performance of non-invasive biomarkers compared with invasive methods for risk prediction of posthepatectomy liver failure in hepatocellular carcinoma. *Br J Surg* 109:455–463. <https://doi.org/10.1093/bjs/znac017>
25. Pina Vegas L, Sbidian E, Wendling D, et al (2022) Factors associated with remission at 5-year follow-up in recent-onset axial spondyloarthritis: results from the DESIR cohort. *Rheumatology (Oxford)* 61:1487–1495. <https://doi.org/10.1093/rheumatology/keab565>
26. Benoit C, Rodrigues A, Calderaro J, et al (2022) Autofluorescence imaging within the liver: a promising tool for the detection and characterization of primary liver tumors. *Eur Radiol* 32:2481–2491. <https://doi.org/10.1007/s00330-021-08307-9>
27. Reizine E, Mule S, De Prost N, et al (2022) Abdominal imaging in ICU patients with viral pneumonia: Are findings in COVID-19 patients really different from those observed with non-SARS-CoV-2 viral pneumonia? *Res Diagn Interv Imaging* 1:100001. <https://doi.org/10.1016/j.redii.2022.01.001>
28. Nguyen CT, Caruso S, Maille P, et al (2022) Immune Profiling of Combined Hepatocellular- Cholangiocarcinoma Reveals Distinct Subtypes and Activation of Gene Signatures Predictive of Response to Immunotherapy. *Clin Cancer Res* 28:540–551. <https://doi.org/10.1158/1078-0432.CCR-21-1219>
29. Reizine E, Chalaye J, Mule S, et al (2022) Utility of Early Posttreatment PET/CT Evaluation Using FDG or 18F-FCH to Predict Response to 90Y Radioembolization in Patients With Hepatocellular Carcinoma. *AJR Am J Roentgenol* 218:359–369. <https://doi.org/10.2214/AJR.21.26485>
30. Morel A, Ouamri Y, Canoui-Poittrine F, et al (2022) Myosteatosis as an independent risk factor for mortality after kidney allograft transplantation: a retrospective cohort study. *J Cachexia Sarcopenia Muscle* 13:386–396. <https://doi.org/10.1002/jcsm.12853>
31. Grodner C, Bernigaud C, Lapadula S, et al (2022) Health products e-sale should be regulated: a case of necrotizing soft-tissue infection of the abdomen linked to self-injection of slimming products purchased on the internet. *Int J Dermatol* 61:e52–e54. <https://doi.org/10.1111/ijd.15818>
32. Tran A, Shili-Masmoudi S, Moga L, et al (2022) Non-invasive diagnosis and follow-up of chronic infection with Hepatitis C Virus. *Clin Res Hepatol Gastroenterol* 46:101771. <https://doi.org/10.1016/j.clinre.2021.101771>
33. Nahon P, Aubé C, Moga L, et al (2022) Non-invasive diagnosis and follow-up of primary malignant liver tumours. *Clin Res Hepatol Gastroenterol* 46:101766. <https://doi.org/10.1016/j.clinre.2021.101766>
34. Sessa A, Mulé S, Brustia R, et al (2022) Macrotrabecular-Massive Hepatocellular Carcinoma: Light and Shadow in Current Knowledge. *J Hepatocell Carcinoma* 9:661–670. <https://doi.org/10.2147/JHC.S364703>
35. Nguyen-Khac V, Brustia R, Rhaïem R, et al (2022) Liver resection for single large hepatocellular carcinoma: a prognostic factors study. *Ann Hepatol* 27:100739. <https://doi.org/10.1016/j.aohp.2022.100739>
36. Gasmi I, Machou C, Rodrigues A, et al (2022) Interleukin-17 programs liver progenitor cell transformation into cancer stem cells through miR-122 downregulation with increased risk of primary liver cancer initiation. *Int J Biol Sci* 18:1944–1960. <https://doi.org/10.7150/ijbs.70408>
37. Lassau N, Bousaid I, Chouzenoux E, et al (2021) Three artificial intelligence data challenges based on CT and ultrasound. *Diagn Interv Imaging* 102:669–674. <https://doi.org/10.1016/j.diii.2021.06.005>
38. Vermersch M, Mulé S, Chalaye J, et al (2021) Impact of the 18F-FDG-PET/MRI on Metastatic Staging in Patients with Hepatocellular Carcinoma: Initial Results from 104 Patients. *J Clin Med* 10:4017. <https://doi.org/10.3390/jcm10174017>
39. Urbina T, Canoui-Poittrine F, Hua C, et al (2021) Long-term quality of life in necrotizing soft-tissue infection survivors: a monocentric prospective cohort study. *Ann Intensive Care* 11:102. <https://doi.org/10.1186/s13613-021-00891-9>
40. Zarca K, Mimouni M, Pereira H, et al (2021) Cost-Utility Analysis of Transarterial Radioembolization With Yttrium-90 Resin Microspheres Compared With Sorafenib in Locally Advanced and Inoperable Hepatocellular Carcinoma. *Clin Ther* 43:1201–1212. <https://doi.org/10.1016/j.clinthera.2021.04.018>
41. de'Angelis N, Catena F, Memeo R, et al (2021) 2020 WSES guidelines for the detection and management of bile duct injury during cholecystectomy. *World J Emerg Surg* 16:30. <https://doi.org/10.1186/s13017-021-00369-w>
42. Brunet A, Hermezi O, Luciani A, Ortonne N (2021) [Malignant Triton tumour: A case report]. *Ann Pathol* 41:317–322. <https://doi.org/10.1016/j.annpat.2021.02.002>
43. Amaddeo G, Brustia R, Allaire M, et al (2021) Impact of COVID-19 on the management of hepatocellular carcinoma in a high-prevalence area. *JHEP Rep* 3:100199. <https://doi.org/10.1016/j.jhepr.2020.100199>
44. Garin E, Tselikas L, Guiu B, et al (2021) Personalised versus standard dosimetry approach of selective internal radiation therapy in patients with locally advanced hepatocellular carcinoma (DOSISPHERE-01): a randomised, multicentre, open-label phase 2 trial. *Lancet Gastroenterol Hepatol* 6:17–29. [https://doi.org/10.1016/S2468-1253\(20\)30290-9](https://doi.org/10.1016/S2468-1253(20)30290-9)
45. de'Angelis N, Baldini C, Brustia R, et al (2021) Correction: Surgical and regional treatments for colorectal cancer metastases in older patients: A systematic review and meta-analysis. *PLoS One* 16:e0251005. <https://doi.org/10.1371/journal.pone.0251005>

46. Sifaoui I, Oliver L, Tacher V, et al (2020) Diagnostic Performance of Transesophageal Echocardiography and Cardiac Computed Tomography in Infective Endocarditis. *J Am Soc Echocardiogr* 33:1442–1453. <https://doi.org/10.1016/j.echo.2020.07.017>
47. Saillard C, Schmauch B, Laifa O, et al (2020) Predicting Survival After Hepatocellular Carcinoma Resection Using Deep Learning on Histological Slides. *Hepatology* 72:2000–2013. <https://doi.org/10.1002/hep.31207>
48. Lacroix M, Mulé S, Herin E, et al (2020) Virtual unenhanced imaging of the liver derived from 160-mm rapid-switching dual-energy CT (rsDECT): Comparison of the accuracy of attenuation values and solid liver lesion conspicuity with native unenhanced images. *Eur J Radiol* 133:109387. <https://doi.org/10.1016/j.ejrad.2020.109387>
49. Reizine E, Ronot M, Ghosn M, et al (2020) Hepatospecific MR contrast agent uptake on hepatobiliary phase can be used as a biomarker of marked β -catenin activation in hepatocellular adenoma. *Eur Radiol*. <https://doi.org/10.1007/s00330-020-07434-z>
50. Mulé S, Reizine E, Blanc-Durand P, et al (2020) Whole-Body Functional MRI and PET/MRI in Multiple Myeloma. *Cancers (Basel)* 12:3155. <https://doi.org/10.3390/cancers12113155>
51. Mulé S, Chalaye J, Legou F, et al (2020) Hepatobiliary MR contrast agent uptake as a predictive biomarker of aggressive features on pathology and reduced recurrence-free survival in resectable hepatocellular carcinoma: comparison with dual-tracer 18F-FDG and 18F-FCH PET/CT. *Eur Radiol* 30:5348–5357. <https://doi.org/10.1007/s00330-020-06923-5>
52. Beghdadi N, Reitano E, Cochennec F, et al (2020) Predictors of mortality following emergency open colectomy for ischemic colitis: a single-center experience. *World J Emerg Surg* 15:40. <https://doi.org/10.1186/s13017-020-00321-4>
53. Mulé S, Galletto Pregliasco A, Tenenhaus A, et al (2020) Multiphase Liver MRI for Identifying the Macrotrabecular-Massive Subtype of Hepatocellular Carcinoma. *Radiology* 295:562–571. <https://doi.org/10.1148/radiol.2020192230>
54. Blanc-Durand P, Campedel L, Mule S, et al (2020) Prognostic value of anthropometric measures extracted from whole-body CT using deep learning in patients with non-small-cell lung cancer. *Eur Radiol* 30:3528–3537. <https://doi.org/10.1007/s00330-019-06630-w>
55. de'ANGELIS N, Martínez-Pérez A, Vitali GC, et al (2020) Predicting Difficult Laparoscopic Total Mesorectal Excision for Locally-advanced Mid-low Rectal Cancer: The EuMarCS Score Validation. *Anticancer Res* 40:2079–2087. <https://doi.org/10.21873/anticancer.14166>
56. Reizine E, Luciani A (2020) Reply to “Inpatient Comparison of the Hepatobiliary Phase of Gd-BOPTA and Gd-EOB-DTPA in the Differentiation of Hepatocellular Adenoma From Focal Nodular Hyperplasia.” *J Magn Reson Imaging*. <https://doi.org/10.1002/jmri.27074>
57. Salaün P-Y, Abgral R, Malard O, et al (2020) Good clinical practice recommendations for the use of PET/CT in oncology. *Eur J Nucl Med Mol Imaging* 47:28–50. <https://doi.org/10.1007/s00259-019-04553-8>
58. Amaddeo G, Nguyen CT, Maillé P, et al (2020) Intrahepatic immune changes after hepatitis c virus eradication by direct-acting antiviral therapy. *Liver Int* 40:74–82. <https://doi.org/10.1111/liv.14226>
59. de'Angelis N, Baldini C, Brustia R, et al (2020) Surgical and regional treatments for colorectal cancer metastases in older patients: A systematic review and meta-analysis. *PLoS ONE* 15:e0230914. <https://doi.org/10.1371/journal.pone.0230914>
60. Tomi-Tricot R, Gras V, Thirion B, et al (2019) SmartPulse, a machine learning approach for calibration-free dynamic RF shimming: Preliminary study in a clinical environment. *Magn Reson Med* 82:2016–2031. <https://doi.org/10.1002/mrm.27870>
61. Ghosn M, Mulé S, Chalaye J, et al (2019) Acute Biliary Obstruction after Transarterial Radioembolization with Yttrium-90. *J Vasc Interv Radiol* 30:2043–2045. <https://doi.org/10.1016/j.jvir.2019.08.024>
62. Calderaro J, Meunier L, Nguyen CT, et al (2019) ESM1 as a Marker of Macrotrabecular-Massive Hepatocellular Carcinoma. *Clin Cancer Res* 25:5859–5865. <https://doi.org/10.1158/1078-0432.CCR-19-0859>
63. Lerman L, Zehou O, Ortonne N, et al (2019) Intérêt de la TEP/TDM au 18F-FDG dans la neurofibromatose de type 1, expérience du centre national de référence Henri-Mondor sur 10 ans. *Médecine Nucléaire* 43:370–380. <https://doi.org/10.1016/j.mednuc.2019.05.001>
64. Blanc-Durand P, Milliner M, Huchet V, et al (2019) 18F-FDG Whole-body PET/MRI of a 30-Week Pregnant Woman With Breast Cancer Revealed Interesting Fetal Findings. *Clin Nucl Med* 44:818–820. <https://doi.org/10.1097/RLU.0000000000002663>
65. Abulizi M, Sifaoui I, Wuliya-Gariepy M, et al (2019) 18F-sodium fluoride PET/MRI myocardial imaging in patients with suspected cardiac amyloidosis. *J Nucl Cardiol*. <https://doi.org/10.1007/s12350-019-01885-8>
66. Lebert P, Adens-Fauquemborgue M, Azahaf M, et al (2019) MRI for characterization of benign hepatocellular tumors on hepatobiliary phase: the added value of in-phase imaging and lesion-to-liver visual signal intensity ratio. *Eur Radiol*. <https://doi.org/10.1007/s00330-019-06210-y>
67. Reizine E, Ronot M, Pigneur F, et al (2019) Iso- or hyperintensity of hepatocellular adenomas on hepatobiliary phase does not always correspond to hepatospecific contrast-agent uptake: importance for tumor subtyping. *Eur Radiol*. <https://doi.org/10.1007/s00330-019-06150-7>
68. Calderaro J, Petitprez F, Becht E, et al (2019) Intra-tumoral tertiary lymphoid structures are associated with a low risk of early recurrence of hepatocellular carcinoma. *J Hepatol* 70:58–65. <https://doi.org/10.1016/j.jhep.2018.09.003>
69. Menahem B, Duvoux C, Ganne N, et al (2019) Liver Resection for Solitary Transplantable Hepatocellular Carcinoma: The Role of AFP-Score. *World J Surg* 43:221–229. <https://doi.org/10.1007/s00268-018-4769-5>

Teaching Activities

- 1) **Master M2 Degree, Master SIM, University UPEC Paris Créteil:** Co-coordinator of Teachnig program since 2012
- 2) **Medical Student training program – Imaging techniques and semiology DFGSM/DFASM:** coordinator of the Research Training Program since 2011
- 3) **University coordinator of Radiographers Training Program, University UPEC Paris Créteil** since 2014
- 4) **Master M2 Degree Paris XI Orsay-Medical Physics; Targeted Imaging**
- 5) **Continuous Medical Education : Coordinator of MRI In clinical Practice training program.** Faculté de Médecine Créteil-Université Paris XII (and teachings in a total of 4 national continuous education training programs)

Responsibilities

- Since 2023: General Secretary of the French Society of Radiology (Société Française de Radiologie – SFR)
- Since 2022: Elect Member of Academic Council of Radiology (CNU)
- Since 2023: President of the Assistance Publique Hôpitaux de Paris (APHP) Radiologist Collegial Board
- Since 2019 : Member of the Scientific Council of DRIM France IA, Conseil National Professionnel de La Radiologie (G4)
- Since 2018 : Medical Head of the Academic Imaging Department at HU Henri Mondor, APHP (DMU FixIT)
- 2014-2018: Member elect of CMEL GH Henri Mondor, APHP, Président de la Commission des Equipements
- 2015-2018: General Secretary of the French College of Academic Radiologists
- Since 2018: Past President of the French Society of Abdominal Radiology (SIAD)
- Since 2016: Member of the Domaine Action Stratégique Imagerie MEDICEN Pôle de Compétitivité - Ile de France
- Member of European Society of Radiology
- Member of the European Society of Gastrointestinal Radiology
- Member of the Radiological Society of North America

Research Programs

- Investigator in 5 national and international research programs (EUDRACT 2011-A00043-38; 2010-A00042-37; 2007-A01121-52; D20070120; 2008-A00865-50)
- Main investigator Work Package Liver Imaging, BPI financed HECAM research program (2021-2025)
- Main Investigator of SPECIALS research program (APHP-Philips Invepto) since 2023
- Main investigator of PHRC EVALICEMM (2009)