

Mocan Tudor Ioan

Consultant Hepatologist | Physician Scientist | Associate Professor

INFORMAȚII PERSONALE

Institutie:	Institutul Regional de Gastroenterologie si Hepatologie "Octavian Fodor" Cluj-Napoca
Pozitie curenta:	CS II (Cercetator Stiintific grad II) - Universitatea Babes-Bolyai, STAR-UBB INSTITUTE
Limbă maternă:	Română
Limbi străine:	Engleză – C2 Franceză – B1
Profil PubMed:	https://pubmed.ncbi.nlm.nih.gov/?term=mocan+tudor+
Profil Scholar:	https://scholar.google.com/scholar?q=mocan+tudor
Profil Frontiers:	https://loop.frontiersin.org/people/1034310/overview

EXPERIENȚĂ PROFESIONALĂ

01.09.2024 – prezent	CS II (Cercetător Științific Asociat) – Associate Professor on Research <i>Universitatea Babeș-Bolyai – STAR-UBB INSTITUTE, Cluj-Napoca</i>
01.01.2019 – prezent	Gastroenterolog – consultant , Physician Scientist <i>Institutul Regional de Gastroenterologie și Hepatologie 'Octavian Fodor' Cluj-Napoca</i> – Ecografie intervențională: biopsie hepatică, drenaj biliar extern, ablație ghidată ecografic (radiofrecvență/microunde), drenaj abces hepatic, colecistostomie – Endoscopie intervențională: ERCP, stentare GI superioară, dilatații cu balon, tratament hemoragii digestive, gastrostomie – Ecografie cu contrast (CEUS)
01.01.2015 – 2018	Rezident în Gastroenterologie <i>Institutul Regional de Gastroenterologie și Hepatologie 'Octavian Fodor' Cluj-Napoca</i>
01.01.2014 – 01.01.2015	Student responsabil (Student in charge) <i>Gastroenterologie și Endoscopie Digestivă, UMF 'Iuliu Hațieganu' Cluj-Napoca</i> – Activități administrative: workshop-uri științifice – Prezentări naționale și internaționale

EDUCAȚIE ȘI FORMARE

2017 – 2021	Doctorand (PhD Student) <i>UMF 'Iuliu Hațieganu' Cluj-Napoca</i> – Coordonator: Prof. Dr. Zeno Spârchez
10.10.2008 – 01.11.2014	Licență în Medicină <i>UMF 'Iuliu Hațieganu' Cluj-Napoca</i> – Disertație: "Molecular pathways involved in Hepatocellular carcinoma associated angiogenesis" – Coordonator: Asist. Dr. Teodora Atena Pop
2014 – prezent	Bachelor în Medicină <i>UMF 'Iuliu Hațieganu' Cluj-Napoca</i>

COMPETENȚE ȘI ABILITĂȚI

Competențe clinice:	Endoscopie superioară și inferioară (diagnostic și intervențională, inclusiv ERCP); Ecografie
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	abdominală: CEUS, biopsie hepatică, drenaj biliar extern, ablație ghidată ecografic (radiofrecvență/microunde)
Competențe cercetare:	Colectare de date, redactare articole, prezentare postere, scriere granturi
Competențe digitale:	Microsoft Office, PowerPoint, Excel, SPSS
Comunicare:	Experiență în comunicări orale și postere la conferințe naționale și internaționale
Altele:	Sală de sport, alergare, drumeții, schi
Permis auto:	Categoria B

INDICATORI BIBLIOMETRICI

Indice Hirsch (ResearchGate):	19 (total citări: 860)
Indice Hirsch (Google Scholar):	19 (total citări: 1001)
Articole ISI (autor principal):	27 articole (FCIAP actualizat)
Articole ISI (coautor):	21 articole
Articole BDI:	1 articol

PREZENTĂRI ȘTIINȚIFICE (2015 – PREZENT)

Invited speaker:	30 prezentări (28 în România, 2 internaționale)
Prezentări congrese:	24 (13 orale, 8 postere)

ACTIVITATE EDITORIALĂ

2019 – 2021	Guest Editor <i>Journal of Clinical Medicine</i> (Q1) – Număr special: 'Hepatocellular Carcinoma: The Current Recommendations for Clinical Practice'
2021 – 2022	Guest Editor <i>Frontiers in Molecular Biosciences</i> (Q2) – Număr special: 'Liquid biopsies: Where are we and what are we aiming for'
2022 – prezent	Guest Editor <i>Biomedicines</i> – Număr special: 'Liver Cancer: From Molecular Mechanism to Therapeutic Perspectives'
Review Editor:	Frontiers in Oncology – Gastrointestinal Cancers: Hepato Pancreatic Biliary Cancers
Reviewer:	Scientific Reports; JCM; Frontiers in Oncology; World Journal of Gastroenterology; Cancer Immunology, Immunotherapy

GRANTURI ȘI PROIECTE

1. Cercetător Junior – PN II / NANO-ABLATION. Autoritatea Națională pentru Cercetare Științifică (ANCS), CNDI-UEFISCDI, proiect nr. 2011-3.1-0252.
2. Cercetător Științific gr. III – Grant European 'INSPIRE', Universitatea Babeș-Bolyai. Contract nr. 353/390028/23.09.2021.
3. Membru din partea României în consorțiul European de Colangiocarcinoame – câștigarea a 2 granturi de tip registry, oferite de European Association for the Study of the Liver (EASL).

PREMII ȘI DISTINCȚII

1. Premiul pentru cea mai bună prezentare de caz – 'Bleeding after Percutaneous Microwave Ablation: Successful Treatment with Percutaneous Ultrasound Guided Cyanoacrylate Glue Embolization.' – SRUMB, Conferința Națională de Ultrasonografie, Târgu Mureș.

2. Travel Grant – Summit HCC Geneva, 2018.
3. Premiul pentru cea mai bună lucrare originală – 'Endoscopic biliary drainage vs US guided percutaneous biliary drainage in the treatment of hilar cholangiocarcinoma' – SRUMB, Conferința Națională, 1-3 Iunie, Cluj-Napoca.
4. Premiul I poster – 'Radiofrequency vs. microwave ablation in the treatment of naïve and recurrent hepatocellular carcinoma' – German-Romanian Symposium on Gastroenterology, Stuttgart.
5. Premiul pentru cea mai bună prezentare de caz – 'Hepatic infarction after Habib assisted liver resection of an Hepatocellular carcinoma' – SRUMB, Conferința Națională, Craiova.
6. Premiul I poster – International Student Congress of (Bio)Medical Sciences (ISCOMS), 2-5 Iulie 2014, Groningen, Olanda.
7. Travel Grant – ISCOMS, 2-5 Iulie 2014, Groningen, Olanda.
8. Premiul 'Ion Baci' – UMF 'Iuliu Hațieganu' Cluj-Napoca, pentru excelență în cercetare.

CAPITOLE DE CARTE

Internaționale:	2 capitole (coautor)
Naționale:	1 capitol (coautor)

EDITOR CARTE INTERNATIONALA (1 carte)

Mocan T, Spârchez ZA, Crăciun R (eds). *Novel approaches in the management of hepatobiliary pancreatic cancer*. Frontiers Media SA, 2026. ISBN: 978-2-8325-7456-0.

PUBLICAȚII ISI – AUTOR PRINCIPAL (27 ARTICOLE)

1. Mocan T, Sparchez Z, Craciun R, Bora CN, Leucuta DC. Programmed cell death protein-1 (PD-1)/programmed death-ligand-1 (PD-L1) axis in hepatocellular carcinoma: prognostic and therapeutic perspectives. *Clin Transl Oncol*. 2019 Jun;21(6):702-712. PMID: 30387047.
2. Sparchez Z, Mocan T, Hagiuc C, Kacso G, Zaharie T, Rusu I, Al Hajjar N, Leucuta DC, Sparchez M. Real-Time Contrast-Enhanced-Guided Biopsy Compared with Conventional Ultrasound-Guided Biopsy in the Diagnosis of Hepatic Tumors on a Background of Advanced Chronic Liver Disease. *Ultrasound Med Biol*. 2019 Nov;45(11):2915-2924. PMID: 31447237.
3. Urban SK, Mocan T, Sängler H, Lukacs-Kornek V, Kornek M. Extracellular Vesicles in Liver Diseases: Diagnostic, Prognostic, and Therapeutic Application. *Semin Liver Dis*. 2019 Feb;39(1):70-77. PMID: 30654391.
4. Sparchez Z, Mocan T, Radu P, Anton O, Bolog N. Contrast enhanced ultrasonography in assessing the treatment response to transarterial chemoembolization in patients with hepatocellular carcinoma. *Med Ultrason*. 2016 Mar;18(1):96-102. PMID: 26962561.
5. Spârchez Z, Mocan T. Hepatocellular Carcinoma Occurrence and Recurrence after Antiviral Treatment in HCV-Related Cirrhosis. *J Gastrointest Liver Dis*. 2017 Dec;26(4):403-410. PMID: 29253056.
6. Sparchez Z, Mocan T. Contemporary role of liver biopsy in hepatocellular carcinoma. *World J Hepatol*. 2018 Jul 27;10(7):452-461. PMID: 30079131.
7. Sparchez Z, Mocan T, Radu P, Mocan LP, Sparchez M, Leucuta DC, Al Hajjar N. Prognostic Factors after Percutaneous Radiofrequency Ablation in the Treatment of Hepatocellular Carcinoma. *J Gastrointest Liver Dis*. 2018 Dec;27(4):399-407. PMID: 30574622.
8. Sparchez Z, Mocan T, Hajjar NA, Bartos A, Hagiuc C, Matei D, Craciun R, Mocan LP, Sparchez M, Leucuta DC. Percutaneous ultrasound guided radiofrequency and microwave ablation in the treatment of hepatic metastases. *Med Ultrason*. 2019 Aug 31;21(3):217-224. PMID: 31476199.
9. Mocan T, Simão AL, Castro RE, Rodrigues CMP, Słomka A, Wang B, Strassburg C, Wöhler A, Willms AG, Kornek M. Liquid Biopsies in Hepatocellular Carcinoma: Are We Winning? *J Clin Med*. 2020 May 20;9(5):1541. PMID: 32443747.
10. Sparchez Z, Mocan T, Radu P, Nenu I, Comsa M, Hajjar NA, Mois E, Bartos A, Kacso G, Sparchez M. Microwave ablation in the treatment of liver tumors. *Med Ultrason*. 2020 Nov 18;22(4):451-460. PMID: 32905567.
11. Sparchez Z, Mocan T, Matei D, Popa O, Al Hajjar N. Bleeding after Microwave Ablation in Hepatocellular Carcinoma: Successful Treatment with Percutaneous Ultrasound-Guided Cyanoacrylate Glue Embolization. *Ultraschall Med*. 2021 Apr;42(2):202-203. PMID: 32131084.
12. Mocan T, Stiuțiu C, Popa C, Nenu I, Pestean C, Nagy AL, Mocan LP, Leucuta DC, Hajjar NA, Sparchez Z. Percutaneous ultrasound guided PEG-coated gold nanoparticles enhanced radiofrequency ablation in liver. *Sci Rep*. 2021 Jan 14;11(1):1316. PMID: 33446793.
13. Mocan T, Kang DW, Molloy BJ, Jeon H, Spârchez ZA, Beyoğlu D, Idle JR. Plasma fetal bile acids 7α-hydroxy-3-oxochole-4-en-24-oic acid and 3-oxochole-4,6-dien-24-oic acid indicate severity of liver cirrhosis. *Sci Rep*. 2021 Apr 15;11(1):8298. PMID: 33859329.
14. Sparchez Z, Craciun R, Caraiani C, Horhat A, Nenu I, Procopet B, Sparchez M, Stefanescu H, Mocan T. Ultrasound or Sectional Imaging Techniques as Screening Tools for Hepatocellular Carcinoma. *J Clin Med*. 2021 Feb 25;10(5):903. PMID: 33668839.
15. Mocan T, Nenu I, Crăciun R, Spârchez Z. Treatment of hepatitis C virus infection in patients with hepatocellular carcinoma: Truth or dare? *J Gastroenterol Hepatol*. 2021 Jun;36(6):1518-1528. PMID: 33326142.
16. Mocan T, Horhat A, Mois E, Graur F, Tefas C, Craciun R, Nenu I, Spârchez M, Sparchez Z. Endoscopic or percutaneous biliary drainage in hilar cholangiocarcinoma: When and how? *World J Gastrointest Oncol*. 2021 Dec 15;13(12):2050-2063. PMID: 35070041.

17. Mocan T, Ilies M, Nenu I, Craciun R, Horhat A, Susa R, Minciuna I, Rusu I, Mocan LP, Seicean A, Iuga CA, Hajjar NA, Sparchez M, Leucuta DC, Sparchez Z. Serum levels of soluble programmed death-ligand 1 (sPD-L1): A possible biomarker in predicting post-treatment outcomes in patients with early hepatocellular carcinoma. *Int Immunopharmacol*. 2021 May;94:107467. PMID: 33611059.
18. Mocan LP, Ilieș M, Melincovici CS, Spârchez M, Crăciun R, Nenu I, Horhat A, Tefas C, Spârchez Z, Iuga CA, Mocan T, Mihiu CM. Novel approaches in search for biomarkers of cholangiocarcinoma. *World J Gastroenterol*. 2022 Apr 21;28(15):1508-1525. PMID: 35582128.
19. Sparchez M, Mocan T, Caraiani C, Rusu I, Sparchez ZA. The added value of CEUS and ultrasound-guided biopsy in diagnosing an aggressive desmoplastic small round cell tumour of peritoneum. *Med Ultrason*. 2022 Dec 21;24(4):499-502. PMID: 35437528.
20. Mocan LP, Craciun R, Grapa C, Melincovici CS, Rusu I, Al Hajjar N, Sparchez Z, Leucuta D, Ilies M, Sparchez M, Mocan T, Mihiu CM. PD-L1 expression on immune cells, but not on tumor cells, is a favorable prognostic factor for patients with intrahepatic cholangiocarcinoma. *Cancer Immunol Immunother*. 2023 Apr;72(4):1003-1014. PMID: 36251029.
21. Spârchez Z, Crăciun R, Nenu I, Mocan LP, Spârchez M, Mocan T. Refining Liver Biopsy in Hepatocellular Carcinoma. *Biomedicines*. 2023 Aug 21;11(8):2324. PMID: 37626820.
22. Piekus-Słomka N, Mocan LP, Shkreli R, Grapă C, Denkwicz K, Wesolowska O, Kornek M, Spârchez Z, Słomka A, Crăciun R, Mocan T. Don't Judge a Book by Its Cover: The Role of Statins in Liver Cancer. *Cancers (Basel)*. 2023 Oct 22;15(20):5100. PMID: 37894467.
23. Mocan LP, Grapa C, Crăciun R, Pralea IE, Uifălean A, Soporan AM, Mureșan XM, Iacobescu M, Al Hajjar N, Mihiu CM, Spârchez Z, Mocan T, Iuga CA. Unveiling novel serum biomarkers in intrahepatic cholangiocarcinoma: a pilot proteomic exploration. *Front Pharmacol*. 2024 Sep 2;15:1440985. PMID: 39286634.
24. Crăciun R, Grapă C, Mocan T, Tefas C, Nenu I, Buliară A, Ștefănescu H, Nemes A, Procopet B, Spârchez Z. The Bleeding Edge: Managing Coagulation and Bleeding Risk in Patients with Cirrhosis Undergoing Interventional Procedures. *Diagnostics (Basel)*. 2024 Nov 20;14(22):2602. PMID: 39594268.
25. Moldovan SA, Moiş EI, Graur F, Puia IC, Vlad I, Nechita VI, Furcea L, Zaharie F, Popa C, Leucuța DC, Mirel S, Moldovan MȘ, Mocan T, Seicean A, Ciocan A, Hajjar NA. A Systematic Review and Meta-Analysis of Preoperative Biliary Drainage Methods in Perihilar Biliary Tumors. *J Clin Med*. 2025 Oct 8;14(19):7097. PMID: 41096177.
26. Grapa C, Mocan T, Mocan LP, Motofelea A, Stanculescu R, Craciun R, Varcui A, Sparchez Z, Mocan T. Turning the Tide-Artificial Intelligence in the Evolving Landscape of Liver Cancer. *Cancers (Basel)*. 2025 Sep 14;17(18):3003. doi: 10.3390/cancers17183003. PMID: 41008847.
27. Salzmann RJS, Mocan T et al. *AI-guided additive scoring model for differential diagnosis of primary liver cancer*. *JHEP Rep*. 2026. PMID: 41895662.

PUBLIICAȚII ISI – COAUTOR (21 ARTICOLE)

1. Słomka A, Wang B, Mocan T, González-Carmona M, Strassburg CP, Lukacs-Kornek V, Kornek MT. Extracellular vesicles small RNA clusters: hit the nail on the head of liver cancer detection. *Hepatobiliary Surg Nutr*. 2022 Feb;11(1):100-102. PMID: 35284519.
2. Słomka A, Mocan T, Willms AG, Lukacs-Kornek V, Kornek MT. Hepatocellular carcinoma extracellular vesicle ECG score as a diagnostic tool close to the ideal. *Hepatobiliary Surg Nutr*. 2023 Dec 1;12(6):930-932. PMID: 38115928.
3. van Keulen AM, Buettner S, Olthof PB, et al. Comparing Survival of Perihilar Cholangiocarcinoma After R1 Resection Versus Palliative Chemotherapy for Unresected Localized Disease. *Ann Surg Oncol*. 2024 Oct;31(10):6495-6503. PMID: 38896226.
4. Craciun R, Mocan T, Procopet B, Nemes A, Tefas C, Sparchez M, Mocan LP, Sparchez Z. Pulmonary complications of portal hypertension: The overlooked decompensation. *World J Clin Cases*. 2022 Jun 16;10(17):5531-5540. PMID: 35979136.
5. Salzmann RJS, Krötz C, Mocan T, Mocan LP, Grapa C, et al. Increased type-I interferon level is associated with liver damage and fibrosis in primary sclerosing cholangitis. *Hepatol Commun*. 2024 Feb 14;8(3):e0380. PMID: 38358371.
6. Słomka A, Wang B, Mocan T, Horhat A, Willms AG, et al. Extracellular Vesicles and Circulating Tumour Cells - complementary liquid biopsies or standalone concepts? *Theranostics*. 2022 Aug 1;12(13):5836-5855. PMID: 35966579.
7. Sparchez Z, Mocan T, Craciun R, Sparchez M, Nolsøe C. Contrast enhancement for ultrasound-guided interventions: when to use it and what to expect? *Ultrasonography*. 2022 Apr;41(2):263-278. PMID: 35073625.
8. Sparchez Z, Radu P, Bartos A, Nenu I, Craciun R, Mocan T, et al. Combined treatments in hepatocellular carcinoma: Time to put them in the guidelines? *World J Gastrointest Oncol*. 2021 Dec 15;13(12):1896-1918. PMID: 35070032.
9. Słomka A, Mocan T, Wang B, Nenu I, Urban SK, et al. EVs as Potential New Therapeutic Tool/Target in Gastrointestinal Cancer and HCC. *Cancers (Basel)*. 2020 Oct 17;12(10):3019. PMID: 33080904.
10. Popa C, Schlanger D, Buliarca A, Mocan T, Procopet B, Spârchez Z, Hajjar NA. Is There a Role for Surgery in BCLC B Hepatocellular Carcinoma? *Chirurgia (Bucur)*. 2021 Aug;116(eCollection):1-8. PMID: 34463246.
11. Muñoz-Martínez S, Sapena V, Forner A, Bruix J, et al. Outcome of liver cancer patients with SARS-CoV-2 infection: An International, Multicentre, Cohort Study. *Liver Int*. 2022 Aug;42(8):1891-1901. PMID: 35608939.
12. Muñoz-Martínez S, Sapena V, Forner A, Nault JC, et al. Assessing the impact of COVID-19 on liver cancer management (CERO-19). *JHEP Rep*. 2021 Jun;3(3):100260. PMID: 33644725.
13. Matei D, Craciun R, Crisan D, Procopet B, Mocan T, et al. Hepatic Hydrothorax-An Independent Decompensating Event Associated with Long-Term Mortality in Patients with Cirrhosis. *J Clin Med*. 2021 Aug 20;10(16):3688. PMID: 34441984.
14. Nenu I, Ștefănescu H, Procopet B, Sparchez Z, Minciuna I, Mocan T, et al. Navigating through the Lipid Metabolism Maze: Diagnosis and Prognosis Metabolites of Hepatocellular Carcinoma versus Compensated Cirrhosis. *J Clin Med*. 2022 Feb 26;11(5):1292. PMID: 35268381.
15. Urban SK, Sängler H, Krawczyk M, et al. Synergistic effects of extracellular vesicle phenotyping and AFP in hepatobiliary cancer differentiation. *Liver Int*. 2020 Dec;40(12):3103-3116. PMID: 32614460.

16. Mocan LP, Rusu I, Melincovici CS, Boşca BA, Mocan T, et al. The Role of Immunohistochemistry in the Differential Diagnosis between Intrahepatic Cholangiocarcinoma, Hepatocellular Carcinoma and Liver Metastasis. *Diagnostics (Basel)*. 2023 Apr 25;13(9):1542. PMID: 37174934.
17. Crăciun R, Buliarcă A, Matei D, Grapă C, Nenu I, Ștefănescu H, Mocan T, et al. Cirrhosis Progression Is Not Associated with Clinically Significant Alterations in Global Hemostasis Assessed by Thromboelastography. *J Clin Med*. 2024 Nov 4;13(21):6614. PMID: 39518754.
18. Buliarca A, Horhat A, Mocan T, Craciun R, Procopet B, Sparchez Z. Viscoelastic tests in liver disease: where do we stand now? *World J Gastroenterol*. 2021 Jun 21;27(23):3290-3302. PMID: 34163112.
19. Banales JM, Rodrigues PM, Affò S, et al. (International CCA Consortium, including Mocan T). Cholangiocarcinoma 2026: status quo, unmet needs and priorities. *Nat Rev Gastroenterol Hepatol*. 2026 Jan;23(1):65-96. PMID: 41372578.
20. Sparchez Z, Mocan T, Radu P, Mocan LP, Sparchez M, Leucuta DC, Al Hajjar N. Prognostic Factors after Percutaneous Radiofrequency Ablation in the Treatment of Hepatocellular Carcinoma. *J Gastrointest Liver Dis*. 2018 Dec;27(4):399-407. PMID: 30574622.
21. Moldovan SA, ..., **Mocan T** et al. *Comparative Outcomes of Pancreaticogastrostomy and Pancreaticojejunostomy*. *Medicina (Kaunas)*. 2025. PMID: 41303887.