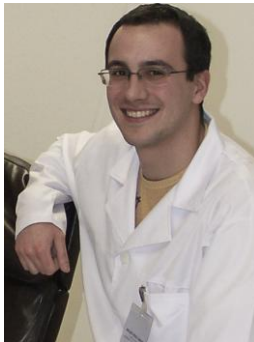


PERSONAL INFORMATION

SOCACIU Mihai Adrian



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✉ [socacium@yahoo.com](mailto:socacium@yahoo.com)

✉ [mihaiaso@gmail.com](mailto:mihaiaso@gmail.com)

✉ [msocaciu@proplanta.ro](mailto:msocaciu@proplanta.ro)

Sex male | Birthday 16/07/1981 | Nationality Romanian

WORK EXPERIENCE

- 10.2006-10.2007     **Master degree**  
 UMF Iuliu Hațieganu Cluj Napoca - Clinica Medicala III, Medical Imaging Dept  
 Clinical research, research management  
 Education. Research
- 01.2007– 01.2012     **Resident physician**  
 County Hospital, Cluj Napoca  
 Clinical practice, theoretical knowledge  
 Medicine. Education
- 11.2007 – today     **PhD student**  
 UMF Iuliu Hațieganu Cluj Napoca - Clinica Medicala III, Medical Imaging Dept  
 Clinical research, research management  
 Education. Research
- 2008 - today     **Manager**  
 S.C. Proplanta SRL  
 Management, director of research center (since 2012), fundamental research  
 Research, Production
- Ian 2008     **PhD student**  
 Krankenhaus Siolah, Med II, Ultraschall. Hanovra, Germania  
 Clinical practice, learning CEUS  
 Medical education
- 01.02.2012 - today     **Radiology – Medical Imaging specialist**  
 CMC Interservisan SRL Cluj-Napoca  
 Clinical practice  
 Medicine
- 01.03.2013 - prezent     **Assistant lecturer**  
 UMF Iuliu Hațieganu Cluj Napoca - Clinica Medicala III, Medical Imaging Dept  
 Medical education. Medical research  
 Medicine. Education. Research
- 01.09.2013 - prezent     **Radiology – Medical Imaging specialist**  
 IRGH „Octavian Fodor” Cluj-Napoca

Clinical practice. Medical education. Medical research

Clinical integration

EDUCATION AND TRAINING

- Apr. 2014 **Complementary studies certificate: Magnetic Resonance Imaging**  
 UMF „Iuliu Hațieganu”, Cluj-Napoca

  - Diagnostic MRI
- Sept. 2013 **Complementary studies certificate: Imaging in Senology**  
 UMF „Iuliu Hațieganu”, Cluj-Napoca

  - Mammograms. Breast US. Breast MRI
- Apr. 2013 **Complementary studies certificate: Computer Tomography**  
 UMF „Iuliu Hațieganu”, Cluj-Napoca

  - Diagnostic CT
- 2012 **Course in „Ultrasound and radio-imaging diagnosis in the breast pathology” for the Complementary studies certificate.**  
 UMF „Iuliu Hațieganu”, Cluj-Napoca

  - Mammograms. Breast US. Breast MRI
- 2007-2012 **Residency training in Radiology and Imaging**  
 Residency programme - Spitalul Clinic Judetean de Urgenta, Cluj-Napoca

  - Conventional radiology. Ultrasonography. CT. MRI. Interventional radiology. Emergency radiology
- 2009 **EFSUMB Course in Contrast Enhanced Ultrasound**  
 Krankenhaus Siolah, Med II, Ultraschall. Hanovra, Germany

  - CEUS
- 2008 **Course in Interventional Ultrasonography**  
 Center of Education and Research in Ultrasonography Cluj

  - Interventional Ultrasonography
- 2006-2007 **Master in ultrasonography**  
 UMF „Iuliu Hațieganu”, Cluj-Napoca, Medical Imaging Dept

  - General ultrasonography. 3D ultrasonography. Research
- 2006 **Pedagogy course**  
 Facultatea de Medicină, UMF „Iuliu Hațieganu”, Cluj-Napoca

  - Pedagogy, Teaching Methodic, Educational Psychology
- 2000-2006 **Licence Degree**  
 Facultatea de Medicină, UMF „Iuliu Hațieganu”, Cluj-Napoca

  - General Medicine
- 1996-2000 **High School Diploma, Programmer certificate**  
 Informatics High School „Tiberiu Popoviciu”, Cluj-Napoca

  - Programming, mathematics, physics, chemistry, biology

PERSONAL SKILLS

Mother tongue(s) română

Other language(s)

	UNDERSTANDING		SPEAKING		WRITING
	Listening	Reading	Spoken interaction	Spoken production	
English	100%	89%	85%	85%	95%

Language Certificate – Medical English; UMF Cluj – 93% B2					
French	B2	B2	B1	B1	B1
	B1				
German	A2	B1	A2	A2	A2
	A2				

**Communication skills** ▪ Good communication skills obtained through teaching and clinical activity

**Organisational / managerial skills** ▪ Manager in a small enterprise with 5 employees  
 ▪ Director of the Research and Development Center Biodiatech

**Job-related skills** ▪ Diagnostic Imaging: Conventional Radiology, Contrast imaging in digestive diseases, ultrasonography (abdominal, vascular, breast, small parts, intracavitary), CEUS, CT, MRI, Interventional ultrasound  
 ▪ Teaching skills: Medical education in Imaging – both theoretical and applicative  
 ▪ Clinic and fundamental Research in: 3D US, CEUS, Dynamic Contrast Perfusion quantification in Oncology, Inflammatory bowel diseases, experimental ultrasonography

**Computer skills** ▪ Programmer certificate – thesis on FoxPro databases (2000)  
 ▪ Advanced level Office (Word, Excel, Powerpoint, Access)  
 ▪ Photographic post-processing (Adobe Photoshop, Lightroom)  
 ▪ Graphics, publishing (Adobe Illustrator, Adobe InDesign)  
 ▪ Statistics and Mathematics software (OrginLabs, SPSS)  
 ▪ Networking

**Other skills** ▪ -

**Driving licence** B category – since 2001

ADDITIONAL INFORMATION

**Publications** **Author:** 1 course book – coauthor; 4 chapters in scientific books

**Scientific publications:** 84 (31 first author, 53 coauthor)  
 Published in extenso: 40 (29 ISI, 7 ISI-Proceedings)  
 First-author / Equal rights with first-author: 3 (3 ISI)  
 Coauthor: 37  
 Published in proceedings: 7 (6 ISI)  
 First-author / Equal rights with first-author: 3 (2 ISI)  
 Coauthor: 4  
 Conferences: 37  
 First-author / Equal rights with first-author: 25  
 Coauthor: 12

▪ **Course book:**

- Mircea PA, Bob MH, Bulboacă A, Clichici S, Crişan D, Gheban D, Iacob D, Mocan L, Moşteanu O, Pop TA, **Socaciu M**, Tamas-Szora A, Vălean S. “Modul de Hepato-Gastroenterologie – support de curs eMEDICAL Summer School 2013”. UMF “Iuliu Haţieganu”, 2013

▪ **Chapters in books**

- Badea R, **Socaciu M**. Imagistica tumorilor hepatice. In Pascu O, Grigorescu M, Acalovschi M, Andreica V. Gastroenterologie. Hepatologie – Bazele practicii clinice. Ed. Medicală Universitară „Iuliu Haţieganu” Cluj Napoca, 2008: 390 - 396

2. Badea R, **Socaciu M**. Evaluarea tumorilor hepatice folosind ultrasonografia tridimensională. Particularități, avantaje și limitări față de explorarea bidimensională. In: M. Grigorescu, M. Beuran. Actualități în patologia hepatică. Ed. Medicală Universitară "Iuliu Hațieganu" Cluj Napoca, 2008, pag. 120– 134
3. **Socaciu M**, Badea R. Advanced Ultrasonographic Techniques in the Diagnosis of Liver Tumour. In: Peter Malfertheiner, Dan Dumitrașcu, Simona Bataga. Gastroenterology Across Europe. Editura Medicală Universitară "Iuliu Hațieganu", 2008, pag. 221-229
4. Badea R, **Socaciu M**. Ultrasonographic Diagnosis of Liver Cancer. In: Peter Malfertheiner, Dan Dumitrașcu, Simona Bataga. Gastroenterology Across Europe. Editura Medicală Universitară "Iuliu Hațieganu", 2008, pag. 231-238

**- Publications in extenso:**

1. Badea R, **Socaciu M**, Lupsor M, Moșteanu O, Pop T. Evaluating the Liver Tumors Using Three-Dimensional Ultrasonography. A Pictorial Essay. J Gastrointest Liver Dis. 2007;16(1):85-92
2. Badea R, **Socaciu M**, Caraiani C. Explorarea ecografică tridimensională folosind modul "transparentă" combinat cu "inversie" – un progres în explorarea patologiei biliare. Experiență preliminară ilustrată. Med Ultrason. 2007; 9(2):89-98
3. Badea R, **Socaciu M**, Caraiani C, Mosteanu O, Pop T. The use of second generation Ultrasound contrast agents (SonoVue) in the diagnosis and characterization of benign liver masses. Rom. Journ. Hepatology. 2008; 4(1):11-9
4. **Socaciu M**, Badea R. The performance of three-dimensional ultrasound reconstruction of the bile ducts in the diagnosis and assessment of extrahepatic cholestasis – a clinical trial on 48 patients. Med Ultrason. 2008; 10(1):21-28
5. Lupsor M, Badea R, Vicaș C, Nedevschi S, Grigorescu M, Stăfănescu H, Sparchez Z, Radu C, Crișan D, Serban A, **Socaciu M**. Performanța diagnostică a coeficientului de atenuare calculat pe imaginea ecografică în detecția steatozei din hepatita cronică virală C. Rezultate pe un lot de 524 pacienți. Romanian Journal of Hepatology. 2008; 4(1): 74-75
6. Badea R, Pop T, **Socaciu M**, Moșteanu O, Caraiani C, Raica P, Manișor M, Miclea L, Mitrea D, Lupsor M, Nedevschi S. The value of the ultrasound image processing procedures, combined with circulation assessment and mathematical modelling techniques for HCC characterization, nature specification and disease prognosis. Automat. Comput, Appl. Math. 2008; 17(1): 18-27
7. Pop TA, Mosteanu O, Badea R, **Socaciu M**, Lupsor M. Value of Doppler ultrasonography in the depiction of changes in hepatic hemodynamics due to primary liver tumours. Medical Ultrasonography. 2008; 10(2): 83-88
8. Mosteanu O, Pop T, Raica P, Lupsor M, **Socaciu M**, Miclea L, Badea R. Hepatocellular carcinoma angiogenesis assessment- role of ultrasound and mathematical modelling. Proceedings of 2008 IEEE-TTTC International Conference on Automation, Quality and Testing, Robotics. 2008; 3: 171-175
9. Mitrea D, Nedevschi S, Mitrea P, Lupsor M, **Socaciu M**, Pop TA, Mosteanu O, Badea R. The Imagistic Textural Model of the Hepatocellular Carcinoma. Comparisons, discussions, conclusions. Proceedings of the 2008 IEEE ICCP Workshop on Computers in Medical Diagnosis (WCMD 2008), August 28, 2008, Cluj-Napoca, pp.25-33
10. Badea R, Mosteanu O, Pop T, **Socaciu M**, Raica P, Mitrea D, Manisor M, Miclea L, Nedevschi S, Ultrasonography and computer-aided diagnosis for the assessment and characterization of hepatocellular carcinoma, 2008 IEEE ICCP Workshop on Computers in Medical Diagnosis (WCMD 2008), August 28, 2008, Cluj-Napoca
11. Mitrea D, Nedevschi S, Lupsor M, **Socaciu M**, Badea R. Improving the textural model of the hepatocellular carcinoma using dimensionality reduction methods. 2nd International Congress on Image and Signal Processing, Tianjin, China 2009; 1083-1087
12. Badea R, Seicean A, Diaconu B, Stan-luga R, Sparchez Z, Tantau M, **Socaciu M**. Contrast-enhanced ultrasound of the pancreas--a method beyond its potential or a new diagnostic standard? J Gastrointest Liver Dis. 2009 Jun;18(2):237-42.
13. Sparchez Z, Radu P, Anton O, **Socaciu M**, Badea R. Contrast enhanced ultrasound in assessing therapeutic response in ablative treatments of hepatocellular carcinoma. J Gastrointest Liver Dis. 2009 Jun;18(2):243-8.
14. **Socaciu M**, Badea R, Hagiuc C, Mitrea P, Mitrea D, Iobagiu S, Ciobanu L. Ultrasound Assessment Techniques and Quantification of Bowel Inflammation in Several Intestinal Diseases: Initial

- Experience. *Automat. Comput, Appl. Math.* 2009; 18(2):212-7.
15. Mitrea D, Nedevschi S, Lupsor M, **Socaciu M**, Badea R. Improving the imagistic textural model of the hepatocellular carcinoma through dimensionality reduction techniques and classifier combinations. *Automat. Comput, Appl. Math.* 2009; 18(2): 218-23.
  16. Badea R, Seicean A, Diaconu B, **Socaciu M**, Sparchez Z, Stan-luga R. Contrast-enhanced ultrasonography of the pancreas – current state of the method, indications, performance, limitations. *Medical Ultrasonography* 2009; 11(4):37-45.
  17. Mitrea D, Nedevschi S, Lupsor M, **Socaciu M**, Badea R. Classification of the Hepatocellular Carcinoma in Ultrasound Images Based on the Imagistic Textural Model of This Tumor. *IFMBE Proceedings Springer* 2009; 26: 267-272
  18. Badea R, Ciobanu L, Gomotirceanu A, Hagiu C, **Socaciu M**. Contrast Ultrasonography of the digestive tract lumen. Review of the literature and personal experience. *Medical Ultrasonography* 2009; 12(1):52-61.
  19. Badea R, Ciobanu L, Gomotirceanu A, Hagiu C, **Socaciu M**. Contrast Ultrasonography – A necessary procedure for a better characterization of digestive tract pathology. *Medical Ultrasonography* 2009; 12(1):73-80.
  20. Mitrea D, Mitrea P, **Socaciu M**, Ciobanu L, Badea R, Golea A, Hagiu C, Seiceanu A. Relevant feature selection and automatic recognition of the inflammatory bowel diseases and colon cancer from B-mode and contrast-enhanced ultrasound images. *Automat. Comput, Appl. Math.* 2010; 19(3): 403-409.
  21. Mitrea D, Nedevschi S, **Socaciu M**, Lupsor M, Badea R. Improving the textural model of the hepatocellular carcinoma through multiclass division using clustering methods. *Automat. Comput, Appl. Math.* 2010; 19(3): 409-414
  22. Mitrea D, Nedevschi S, Lupsor M, **Socaciu M**, Badea R. Experimenting various classification techniques for improving the automatic diagnosis of the malignant liver tumors, based on ultrasound images. *Image and Signal Processing (CISP)* 2010: 1853 – 1858
  23. Mitrea D, **Socaciu M**, Badea R, Mitrea P, Golea A, Hagiu C, Ciobanu L, Seiceanu A. The role of the computerized techniques in assessing the inflammatory bowel diseases, based on ultrasound images. *Proceedings of 2010 IEEE International Conference on Automation, Quality and Testing, Robotics* 2010; tome II: 47-52
  24. Mitrea D, Nedevschi S, Lupsor M, **Socaciu M**, Badea R. Advanced classification methods for improving the automatic diagnosis of the hepatocellular carcinoma, based on ultrasound images. *Proceedings of 2010 IEEE International Conference on Automation, Quality and Testing, Robotics* 2010; tome II: 265-720
  25. Badea R, **Socaciu M**, Ciobanu L, Hagiu C, Golea A. Contrast-enhanced ultrasonography (CEUS) for the evaluation of the inflammation of the digestive tract wall. *J Gastrointestin Liver Dis.* 2010;19(4):439-44.
  26. Golea A, Badea R, **Socaciu M**, Diaconu B, Iacob D. Quantitative analysis of tissue perfusion using contrast-enhanced transabdominal ultrasound (CEUS) in the evaluation of the severity of acute pancreatitis. *Med Ultrason.* 2010;12(3):198-204.
  27. Sporea I, Badea R, Martie A, Sirli R, **Socaciu M**, Popescu A, Dănilă M. Contrast enhanced ultrasound for the characterization of focal liver lesions. *Med Ultrason.* 2011; 13(1):38-44.
  28. Sandulescu L, Badea R, Sporea I, Popescu A, **Socaciu M**, Saftoiu A. Contrast-enhanced ultrasound for the evaluation of focal liver lesions - a multicenter trial in Romania. *Med Ultrason.* 2011; 13(3):258-9.
  29. Mitrea D, Mitrea P, Badea R, **Socaciu M**, Ciobanu L, Golea A, Hagiu C, Seicean A. Computerized methods for the assessment and characterization of the inflammatory bowel diseases and colon cancer from ultrasound and endoscopic images. *Proceeding of 10th WSEAS international conference on electronics* 2011: 336-343
  30. Vicas C, Lupsor M, **Socaciu M**, Badea R, Nedevschi S. Texture analysis as a noninvasive tool for fibrosis assessment in chronic hepatitis C. influence of expert dependent variability over the performance of texture analysis. *Intelligent Computer Communication and Processing (ICCP), 2011 IEEE International Conference:* 205-212
  31. Mitrea D, **Socaciu M**, Badea R, Golea A. Texture based characterization and automatic diagnosis of the abdominal tumors from ultrasound images using third order GLCM features. *Intelligent Computer Communication and Processing (ICCP), 2011 IEEE International Conference:* 1558-62
  32. Vicas C, Lupsor M, **Socaciu M**, Nedevschi S, Badea R. Influence of Expert Dependent Variability over the Performance of non-invasive Fibrosis Assessment at Patients with Chronic Hepatitis C,

- by the Means of Texture Analysis. *Comput Math Methods Med.* 2012; 2012: 346713
33. Mitrea D, Mitrea P, Nedevschi S, Badea R, Lupsor M, **Socaciu M** et al. Abdominal tumor characterization and recognition using superior order cooccurrence matrices, based on ultrasound images. *Comput Math Methods Med.* 2012; 2012: 348135
  34. Vasile TA, **Socaciu M**, Stan Iuga R, Seicean A, Iancu C, Al Hajjar N, Zaharie T, Badea R. Added value of intravenous contrast-enhanced ultrasound for characterization of cystic pancreatic masses: a prospective study on 37 patients. *Med Ultrason.* 2012;14(2):108-14
  35. Sporea I, Badea R, Martie A, Dumitru E, Ioanițescu S, Șirli R, **Socaciu M**, Popescu A, Dănilă M, Voiculescu M. Contrast Enhanced Ultrasound for the evaluation of focal liver lesions in daily practice. A multicentre study. *Med Ultrason.* 2012;14(2):95-100
  36. Vasile TA, Feier D, **Socaciu M**, Anton OM, Seicean A, Iancu C, Zaharie T, Badea R. Contrast enhanced ultrasound and computer tomography diagnosis of solid and mixed pancreatic tumors - analysis of confounders. *J Gastrointestin Liver Dis.* 2012;21(3):285-92
  37. Badea R, Barsan M, Mercea V, Encica S, **Socaciu M**, Procopet B. A case report of solitary fibrous tumor of the pleura: ultrasound diagnostic features. *J Med Ultrasonics* 2012; 39(2):97-100
  38. Mitrea D, Nedevschi S, **Socaciu M**, Badea R. The Role of the Superior Order GLCM in the Characterization and Recognition of the Liver Tumors from Ultrasound Images. *Radioengineering* 2012; 21(1): 79-85
  39. Feier D, **Socaciu M**, Anton O, Al Hajjar N, Badea R. The combined role of intravenous contrast enhanced ultrasound (CEUS) and computed tomography (CT) in liver abscess diagnosis. *Chirurgia.* 2012;107(3):343-51.
  40. Badea AF, Tamas-Szora A, Clichici S, **Socaciu M**, Tabaran AF, Baciut G, et al. Contrast enhanced ultrasonography (CEUS) in the characterization of tumor microcirculation. Validation of the procedure in the animal experimental model. *Medical ultrasonography.* 2013;15(2):85-94

#### Proceedings:

1. **Socaciu M**, Caraiani C, Vasile T, Tantau M, Iancu C, Badea RI. Three-dimensional ultrasound of the bile ducts in the diagnosis and assessment of obstructive jaundice – a preliminary experience using the transparent mode associated to the inverse mode. *Ultraschall in Med* 2008; 29:S5
2. Badea M, Hedesiu M, **Socaciu M**, Serbanescu A, Badea R. 2D and 3D ultrasound examination of gingival mucosa in case of patients with periodontal disease using a conventional high resolution transducer – preliminary study. *Ultraschall in Med* 2008; 29:S43
3. Mosteanu O, Pop TA, Badea R, Lupsor M, **Socaciu M**. Changes in hepatic hemodynamics due to primary liver tumours. *Ultraschall in Med* 2008; 29:S16
4. **Socaciu M**, Guttman T, Badea R. The use of Second Generation US Contrast Medium for the Positive and Differential Diagnosis of Liver Lesions: our Experience in Cluj-Napoca. *Romanian Journal of Hepatology* 2008; 4(supl1): 45-46
5. **Socaciu M**, Badea R. Mathematic Modelling of Time-Intensity Curves Obtained by CEUS in Liver Nodules: A Possible Advance in their Diagnosis and Follow-up. *Hepato-Gastroenterology* 2008; 55:A31
6. Sporea I, Badea R, Popescu A, Martie AF, **Socaciu M**, Sirli R, Danila M, Sendroiu M, Bota S. Characterization of Focal Liver Lesions by Contrast Enhanced Ultrasound (CEUS) in Clinical Practice – A Bicentric Experience. *Gastroenterology* 2011; 140(5) Supplement 1: S-926-S-927
7. Sporea I, Badea RI, Popescu A, Sparchez Z, Sirli R, ..., **Socaciu M** et al. The Value of Contrast Enhanced Ultrasound (CEUS) for Focal Liver Lesions Characterization - A Multicenter Romanian Study. *Gastroenterology.* 2013;144(5):S-1041.

#### Presentation S, Conference S

#### - Conferences:

1. **Socaciu M**, Badea R. Utilizarea algoritmilor de imagine în studiul suprafețelor și texturilor. Aplicații în hepatologie. Seminar pentru formare în ecografie 3D/4D. 20 - 21 aprilie 2007
2. **Socaciu M**, Badea R, Vasile T. Utilizarea ecografiei tridimensionale în patologia hepato-biliară. Aplicație în evaluarea colestazei extrahepatice. Seminarul anual al Centrului de Formare în Ultrasonografie, organizat cu ocazia zilelelor UMF, 7 dec 2007, Cluj-Napoca
3. **Socaciu M**, Badea R. Ultrasonografia cu contrast în diagnosticul și caracterizarea tumorilor hepatice. Seminarul „Progrese în Ultrasonografie” la a V-a ediție a manifestărilor Maramedica,

- Baia Mare, 21-23 februarie 2008
4. Badea M, Hedesi M, **Socaciu M**, Serbanescu A, Badea R. 2D and 3D ultrasound examination of gingival mucosa in case of patients with periodontal disease using a conventional high resolution transducer – preliminary study. EUROSON May 31st -June 3rd 2008
  5. **Socaciu MA**, Caraiani C, Vasile T, Tantau M, Iancu C, Badea RI. Three-dimensional ultrasound of the bile ducts in the diagnosis and assessment of obstructive jaundice – a preliminary experience using the transparent mode associated to the inverse mode. EUROSON, May 31st -June 3rd 2008
  6. **Socaciu M**, Guttman T, Badea R. The use of Second Generation US Contrast Medium for the Positive and Differential Diagnosis of Liver Lesions: our Experience in Cluj-Napoca. XVIII-th National Congress of Hepatology. Contrast Media Applications in Hepatology. Bucharest. September 19-20 2008
  7. **Socaciu M.**, Badea R. Advanced ultrasonographic techniques in the diagnosis of liver tumour. Bridging meeting of EAGE and postgraduate course. Târgu Mureş, Romania, 30 october -1 november 2008
  8. Badea R. **Socaciu M**. Ultrasonographic diagnosis of liver cancer. Bridging meeting of EAGE and postgraduate course. Târgu Mureş, Romania, 30 october -1 november 2008
  9. **Socaciu M**, Badea R, Pop T, Mosteanu O, Caraiani C. Ecografia cu contrast: Inovatii in managementul tumorilor hepatice. Seminarul anual al Centrului de Formare în Ultrasonografie, organizat cu ocazia zilelelor UMF, 6 dec 2008, Cluj-Napoca
  10. **Socaciu M**, Badea R. Mathematic Modelling of Time-Intensity Curves Obtained by CEUS in Liver Nodules: A Possible Advance in their Diagnosis and Follow-up.16th International Postgraduate Course. Diagnostic & Therapeutic Approachings for GI Malignancies: Past, Present and Future. Athens 11-13 Dec 2008
  11. **Socaciu M**, Badea R. Utilizarea ecografiei cu contrast in patologia digestiva inflamatorie. Seminarul „Progrese în Ultrasonografie” la a VII-a ediție a manifestărilor Maramedica, Baia Mare, 21-23 februarie 2008
  12. **Socaciu M**, Badea R, Hagiu C, Mitrea P, Mitrea D, Iobagiu S, Ciobanu L. Ultrasound Assessment Techniques and Quantification of Bowel Inflammation in Several Intestinal Diseases: Initial Experience. „Workshop on Computers in Medical Diagnoses” organizat cu ocazia „2009 IEEE International Conference on Intelligent Computer Communication and Processing”, 27-29 august, 2009, Cluj-Napoca, Romania
  13. **Socaciu M**, Badea R, Petrar S, Sparchez Z. The Use of CEUS in Assessing the Portal Pathology (Thrombosis, Hypertension). XIX-th National Congress of Hepatology. Contrast Media Applications in Hepatology. Bucharest. September 11-12 2009
  14. **Socaciu M**, Badea R, Ciobanu L, Hagiu C, Mitrea D, Mitrea P. Quantification of the Inflammation Intensity in the Inflammatory and Malignant Bowel Diseases, using Contrast-Enhanced Ultrasound. EUROSON Copenhagen. August 22-25 2010
  15. **Socaciu M**, Badea R, Parau A. Perfusion Quantification in Treated Hepatocellular Carcinoma using CEUS. IInd Balcanic and XXth National Congress of Hepatology. Bucharest. Sept 16-18 2010
  16. **Socaciu M**. Perfusion Quantification in Treated Hepatocellular Carcinoma using CEUS. EUROSON Madrid. April 22-24 2012
  17. **Socaciu M**, Badea R, Seicean A, Stan-luga R, Spirchez Z, Procopet B. Usefulness of i.v. Contrast Ultrasound for characterization of cystic pancreatic masses: a study of 37 prospectively followed patients. EUROSON Madrid. April 22-24 2012
  18. **Socaciu M**, Badea R. Rolul examinărilor ecografice și CT cu contrast în patologia inflamatorie și tumorală intestinală. A XV-a conferinta nationala a Societății Romane de Ultrasonografie in Medicina si Biologie, Cluj-Napoca, 31 mai - 2 iunie 2012
  19. **Socaciu M**, Badea R, Vasile T. Aspecte comparative și complementare ale examinărilor imagistice cu contrast în patologia tumorală pancreatică. A XV-a conferinta nationala a Societății Romane de Ultrasonografie in Medicina si Biologie, Cluj-Napoca, 31 mai - 2 iunie 2012
  20. **Socaciu M**. Principiile imagisticii moleculare bazate pe ultrasunete. A XV-a conferinta nationala a Societății Romane de Ultrasonografie in Medicina si Biologie, Cluj-Napoca, 31 mai - 2 iunie 2012
  21. **Socaciu M**. Aplicații ale ultrasonografiei de înaltă rezoluție în medicina experimentală. A XV-a conferinta nationala a Societății Romane de Ultrasonografie in Medicina si Biologie, Cluj-Napoca, 31 mai - 2 iunie 2012
  22. **Socaciu M**, Badea R. Rolul ecografiei cu substanță de contrast în bolile inflamatorii intestinale. Al XXXII-lea Congres Național de Gastroenterologie, Hepatologie și Endoscopie Digestivă, Targu

Mures, 14-16 iunie 2012

23. **Socaciu M.** Explorarea imagistica – ecografică în cercetarea experimentală. Tehnici existente. Performanțe dovedite. Așteptări. Seminarul anual al Centrului de Educație și Cercetare în Ultrasonografie organizat cu ocazia Zilelor UMF, Cluj, 6 decembrie 2012
24. **Socaciu M,** Badea R, Părau A, Ciobanu L, Diaconu B. CEUS. Cuantificarea informatiei si utilitatea in evaluarea eficientei terapiei. A XVI-a Conferință Națională a Societății Române de Ultrasonografie în Medicină și Biologie, Oradea, 30 mai - 1 iunie 2013

**- Posters in International Conferences:**

1. Pop TA, Manisor M, Badea R, Raica P, **Socaciu M**, Lupsor M, Mosteanu O. A Mathematical Model to Estimate Changes in Hepatic Hemodynamics due to Primary Liver Tumors. EASL Monothematic Conference „Liver Cancer: From Molecular Pathogenesis to New Therapies” Praga, Iunie 2008
2. Lupsor M, Badea R, Stefanescu H, Mitrea D, Nedevschi S, **Socaciu M**, Mosteanu O, Pop T, Sparchez Z. Exploring Texture-Based Parameters Extracted from Ultrasound Images for Differentiation Between Macronodular Cirrhosis and Hepatocellular Carcinoma. EASL Monothematic Conference „Liver Cancer: From Molecular Pathogenesis to New Therapies” Praga, Iunie 2008
3. Badea M, Chifor R, Hedesiu M, **Socaciu M**, Serbanescu A, Badea A. High Frequency ultrasonography Applications for Measurements of Periodontal Tissues in pig Mandible. EUROSON Edinburgh, December 2009
4. **Socaciu M**, Badea R, Pop T, Mosteanu O, Sparchez Z, Guttman T. CEUS Assessment of Liver Nodules in Cirrhotic Patients: a 15 Months Experience in a Cost-Conscious Medical Environment. EUROSON Edinburgh, December 2009
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6. Sparchez Z, Radu P, Zaharia T, **Socaciu M**, Badea R. Usefulness of contrast enhanced ultrasound guided biopsy in liver tumors. EUROSON Edinburgh, December 2009
7. Badea R, Seicean A, Diaconu B, Stan-luga R, **Socaciu M**, Sparchez Z, Tantau M, Serban A. The value of real-time contrast-enhanced ultrasonography (Sonovue) when characterizing the microcirculation in pancreatic disease. ECR Vienna, March 2010
8. Sparchez Z, Radu P, Zaharia T, Grigorescu I, Badea R, **Socaciu M**, Kacso G, Botis G. Role of contrast enhanced ultrasound(CEUS) in percutaneous biopsy of liver tumors. EASL Vienna, April 2010
9. Ciobanu L, Badea R, **Socaciu M**, Diaconu B, Hagi C, Mitrea D. Quantification of the Inflammation Intensity in the Inflammatory Bowel Diseases, using Contrast-Enhanced Ultrasound. WFUMB 13th World Congress, Vienna, August 2011
10. Badea R, **Socaciu M**, Parau A, Tamas-Szora A, Sparchez Z. Perfusion Quantification in Treated Hepatocellular Carcinoma using CEUS. WFUMB 13th World Congress, Vienna, August 2011
11. Badea R, **Socaciu M**, Ciobanu L, Diaconu B, Hagi C, Golea A, Mitrea D. Differences in Contrast Enhancement in Inflammatory and Malignant Bowel Diseases, using TIC Parameters. WFUMB 13th World Congress, Vienna, August 2011
12. **Socaciu M.** Perfusion Quantification in Treated Hepatocellular Carcinoma using CEUS. EUROSON Madrid. April 22-24 2012
13. **Socaciu M**, Badea R, Seicean A, Stan-luga R, Sparchez Z, Procopet B. Usefulness of i.v. Contrast Ultrasound for characterization of cystic pancreatic masses: a study of 37 prospectively followed patients. EUROSON Madrid. April 22-24 2012

**Projects**

Project	Position	Period
Predictia evolutiei si estimarea raspunsului la tratament a tumorilor maligne, prin modelare morfologica si hemodinamica, utilizand tehnici imagistice, matematice si de inteligenta artificiala – ANGIOTUMOR, proiect finanțat de Ministerul Educației și Cercetării din România prin Programul Cercetare de Excelență (CEEX); autoritate contractantă: Academia de Științe Medicale; cod proiect: 138/2006	researcher	2006-2008



Sistem inteligent de detectare si evaluare neinvaziva a fibrozei, restructurarii si a nodulilor displazici ai ficatului cu ajutorul ultrasonografiei 2D/3D si a markerilor moleculari – SIDEF, proiect finanțat de Ministerul Educației și Cercetării din România prin Programul Cercetare de Excelență (CEEX); autoritate contractantă: Academia de Științe Medicale; cod proiect: 508/2006	researcher	2006-2008
Implementarea produsului SonoVue in diagnosticul ecografic al bolilor inflamatorii intestinale si optimizarea imaginilor prin analiza computerizata – SONODIG, finantat in cadrul PNCDI II – program Idei; cod CNCIS: 833/2008	researcher	2009-2011
The development of tools and effective strategies for the optimisation of useful secondary METAbolite PROduction in plants (METAPRO) – Finanțat in cadrul “Seventh Framework Programme”; cod FP7-KBBE / 244348	researcher	2009-2013
Hyperthermic magnetic nanoparticle ablation of liver and pancreatic tumors (NANOABLATION), finanțat în cadrul PNCDI II – program Parteneriate; cod PN-II-PT-PCCA-2011-3.1-0252	researcher	2012-2015

## Seminars

1. “Seminarul de formare în ECO 3D/4D”. Cluj-Napoca, 20-21 aprilie 2007
2. „Aplicații ale ecografiei cu contrast i.v. în diagnosticul și caracterizarea nodulilor hepatici”. Cluj-Napoca, 2-4 iulie 2007
3. „Modern Concepts in Pancreatic and Liver Surgery”. Cluj-Napoca, 22-23 octombrie 2009
4. Curs practic de ultrasonografie cu contrast „EcoCont”. Cluj-Napoca, 30-31 octombrie 2009
5. Curs practic de ultrasonografie cu contrast „EcoCont”. Cluj-Napoca, 19-20 martie 2010
6. Curs Internațional „Actualități în ultrasonografie”. Chișinău, 9-10 iulie 2010
7. Curs intensiv cu aplicații practice “Introducere în ecografia cu contrast”. Chișinău, 11 septembrie 2010
8. „Optimizarea Examinării Ecografice Convenționale prin Agenți de Contrast și Tehnici Elastografice”. Cluj-Napoca, 26-27 noiembrie 2010
9. Curs practic de ecografie cu agenți de contrast „Aplicații în patologia hepatică”. Fundeni, București, 4 decembrie 2010
10. „Curs practic de ecografie cu agenți de contrast”. Floreasca, București, 12 noiembrie 2011
11. “Seminarul anual al Centrului de Educație și Cercetare în Ultrasonografie organizat cu ocazia zilelor UMF - Progrese și Tehnici Noi, aplicații în ultrasonografia clinică”. Cluj-Napoca, 9 decembrie 2011.
12. „Optimizarea Examinării Ecografice Convenționale prin Agenți de Contrast și Tehnici Elastografice cu utilizare în Oncologie”. IOCN Cluj-Napoca, 3 februarie 2012
13. „Curs practic de ecografie cu agenți de contrast”. Spit. Sf. Spiridon, Iasi, 5 mai 2012
14. “Curs practic de ultrasonografie cu contrast – EcoCont”. Constanta 21 iunie 2012 (organizat cu ocazia Școlii de Vară - Actualități în Ultrasonografie, prima ediție).
15. “Seminarul anual al Centrului de Educație și Cercetare în Ultrasonografie organizat cu ocazia Zilelor UMF - Explorarea ecografică în cercetarea clinică și experimentală”. Cluj, 6 decembrie 2012
16. „Curs practic de ecografie cu agenți de contrast”. Târgu Mureș, 13 aprilie 2013
17. „Curs practic de ecografie cu agenți de contrast”. Bistrița, 21 iunie 2013
18. „Integrated Medical Curriculum – eMediqual Summer School”. UMF „Iuliu Hațieganu” Cluj-Napoca, 16-20 septembrie 2013
19. „Optimizarea Examinării Ecografice Convenționale prin utilizarea Agenților de Contrast și a Tehnicilor Elastografice - ELASTOCONT”. Oradea, 23 noiembrie 2013

**Representing Romania for the „Young Investigator Award”**. EUROSON Copenhagen. August 22-25, 2010

**Representing Romania for the „Young Investigator Award ”**. EUROSON Madrid. April 22-24, 2012

Colegiul Medicilor din România – filiala Cluj-Napoca

Societatea Română de Ultrasonografie în Medicină și Biologie Moleculară (SRUMB)

European Federation of Societies for Ultrasound in Medicine and Biology (EFSUMB)

Honours  
and awards

Memberships

Asociația Română pentru Studiul Ultrasonografiei clinice și aplicative (ARSUS)  
Societatea Română de Patologie Comparată și Experimentală – membru fondator  
Grupul de Lucru Interdisciplinar de Hepatologie Aplicată (GLIHA) – membru fondator