

INFORMAȚII PERSONALE CONSTANTIN SORIN CRACIUNAS

EDUCAȚIE ȘI FORMARE

-
- 15/09/1991–01/10/1997 **DIPLOMA DE DOCTOR MEDIC**
FACULTATEA DE MEDICINA GENERALA - UNIVERSITATEA "OVIDIUS", CONSTANA (România)
- 01/05/1999–30/04/2006 **MEDIC SPECIALIST NEUROCHIRURGIE**
UNIVERSITATEA DE MEDICINA SI FARMACIE "CAROL DAVILA" - SPITALUL CLINIC DE URGENTA "BAGDASAR - ARSENI", BUCURESTI (România)
- 01/11/2004–30/04/2005 **STUDII APROFUNDATE NEUROCHIRURGIE**
UNIVERSITE "PARIS 6" - HOPITAL "FOCH", PARIS (Franța)
- 15/09/2006–12/09/2012 **DOCTOR IN STIINTE MEDICALE**
UNIVERSITATEA "OVIDIUS", CONSTANTA (România)
- 01/11/2006–31/12/2008 **CERTIFICAT DE STUDII POSTDOCTORALE**
KANSAS UNIVERSITY MEDICAL CENTER, KANSAS CITY (SUA)
- 01/07/2009–30/06/2010 **SPINE SURGERY FELLOWSHIP**
UNIVERSITY OF TORONTO - DEPARTMENT OF NEUROSURGERY - TORONTO WESTERN HOSPITAL, TORONTO (Canada)

EXPERIENȚA PROFESIONALĂ

-
- 05/01/1998–30/03/1999 **MEDIC STAGIAR**
SPITALUL CLINIC DE URGENTA, CONSTANTA (România)
- 01/04/1999–30/03/2006 **MEDIC REZIDENT NEUROCHIRURGIE**
SPITALUL CLINIC DE URGENTA "BAGDASAR - ARSENI" (România)
- 01/12/2001–19/10/2006 **ASISTENT CERCETARE STIINTIFICA**
COLECTIVUL CERCETARE CHIRURGIE SPINALA - SPITALUL CLINIC DE URGENTA "BAGDASAR-ARSENI", BUCURESTI (România)
- 01/11/2004–30/04/2005 **AFS**
HOPITAL "FOCH", PARIS (Franța)

- 01/11/2006–31/12/2008 **POSTDOCTORAL FELLOW**
HOGLUND BRAIN IMAGING CENTER - KANSAS UNIVERSITY MEDICAL CENTER, KANSAS CITY (SUA)
- 01/07/2009–30/06/2010 **CLINICAL FELLOW SPINE SURGERY**
TORONTO WESTERN HOSPITAL, TORONTO (Canada)
- 20/10/2006–01/01/2011 **CERCETATOR STIINTIFIC/MEDIC SPECIALIST NEUROCHIRURGIE**
NUCLEUL DE CERCETARE CHIRURGIE SPINALA - SPITALUL CLINIC DE URGENTA "BAGDASAR-ARSENI" (România)
- 01/01/2011–Prezent **MEDIC SPECIALIST/PRIMAR NEUROCHIRURGIE**
SECTIA NEUROCHIRURGIE IV - SPITALUL CLINIC DE URGENTA "BAGDASAR-ARSENI" (România)

COMPETENȚE PERSONALE

Limba(i) maternă(e) română

Alte limbi străine cunoscute

	ÎNȚELEGERE		VORBIRE		SCRIERE
	Ascultare	Citire	Participare la conversație	Discurs oral	
engleză	C1	C2	B2	C1	C1
franceză	B1	B2	A2	A2	A2

Niveluri: A1 și A2: Utilizator elementar - B1 și B2: Utilizator independent - C1 și C2: Utilizator experimentat
Cadrul european comun de referință pentru limbi străine

INFORMAȚII SUPLIMENTARE

AFILIERI
Congress of Neurological Surgeon (USA)
American Association of Neurological Surgeons (USA)
European Spine Society (Eurospine)
AOSpine International
Society for Neuroscience (USA)
International Brain Research Society
World Federation of Neurosurgical Societies (WFNS)
European Association of Neurosurgical Societies (EANS)
Societatea Română de Neurochirurgie

GRANTURI DE CERCETARE

2011-2012 **"Does Brain Metabolic Reorganization Predict the Functional Recovery Following Decompressive Surgery in Patients with Cervical Spondylotic Myelopathy?"**
Finantare: 30.000 CHF
Organizatie/sponsor: AOSpine international
Pozitie: Investigator principal/Director de proiect

2012-2013 "Cervical Myelopathy: Spinal Cord MRS Predicts Recovery"**Finantare: 15.000 euro****Organizatie/sponsor: Eurospine - The Spine Society of Europe****Pozitie: Investigator principal/Director de proiect**Publicatii rezultate in urma celor doua granturi de cercetare cu subiect "Mielopatia cervicala":

1. Sorin C. Craciunas, MD, PhD, Mircea R. Gorgan, MD, Bogdan Ianos, MD, Phil Lee, PhD, Joseph Burris, MD, and Carmen M. Cirstea, MD, PhD Remote motor system metabolic profile and surgery outcome in cervical spondylotic myelopathy *Journal of Neurosurgery: Spine* Jun 2017 / Vol. 26 / No. 6,

2. Cirstea CM, Burris JE, Ianos BD, Nanda A, Singh N, Peng H, Craciunas SC. Neural Status of Intact Spinal Cord is a Better Predictor of Surgery Outcome Than Clinical and Imaging Features os Spinal Cord Insult in Cervical Spondylotic Myelopathy: A Case Report *PM R.* 2016 Sep;8(9S):S259. doi: 10.1016/j.pmrj.2016.07.477

3. Cirstea CM, Burris JE, Peng H, Nanda A, Singh N, Craciunas SC. Cortical Neurochemical Profile Depends on the Origin and the Site of the Central nervous System Injury, *PM R.* 2016 Sep;8(9S):S157. doi: 10.1016/j.pmrj.2016.07.035.

Prezentari la congrese rezultate in urma celor doua granturi de cercetare cu subiect "Mielopatia cervicala":

1. Cirstea MC, Burris JE, Ianos B, Nanda A, Singh N, Peng H, Craciunas CS. Neural status of intact spinal cord is a better predictor of surgery outcome than clinical and imaging features of spinal cord insult in cervical spondylotic myelopathy: a case report. *American Association of Physical Medicine & Rehabilitation, New Orleans, 2016*

2. Cirstea MC, Burris JE, Peng H, Nanda A, Singh N, Craciunas CS. Cortical neurochemical profile depends on the origin and the site of the central nervous system injury. *American Association of Physical Medicine & Rehabilitation, New Orleans, 2016 Selected for Best Neurological Rehabilitation Research Podium Presentations*

3. Cirstea MC, Burris J, Craciunas SC. Novel approach to understand cerebral contribution to neurological impairment in patients with cervical spondylotic myelopathy *Association of Academic Physiatrists, Sacramento, 2016 Selected for Best Neurological Rehabilitation Research Podium Presentations*

4. Craciunas SC, Gorgan MR, Cirstea MC. Choline in spinal cord predicts functional outcome in spondylotic myelopathy. *Congress of Romanian Society of Neurosurgery, 40th Annual Meeting, Bucharest, 2014*

5. SC Craciunas, RM Gorgan, CM Cirstea Proton MRS measurements in spinal cord predict functional recovery after decompressive surgery in cervical spondylotic myelopathy, *EANS Annual Meeting, Prague, 2014*

6. SC Craciunas, RM Gorgan, CM Cirstea H-MRS in brain and spinal cord as predictor of surgical outcome in cervical spondylotic myelopathy *30th Annual Meeting of AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Orlando, Florida, 2014*

Cirstea MC, Bani-Ahmed A, Brooks MW, Nudo RJ, Savage CR,

7. Craciunas CS, Bani-Ahmed A, Gorgan MR, Cirstea MC. Remote cerebral inflammatory response

predicts clinical output after decompressive surgery in cervical spondylotic myelopathy. Society for Neuroscience, 43th Annual Meeting, San Diego, 2013

8. SC Craciunas, Gorgan MR, Medrea M, Bahni-Ahmed A., CM Cirstea Cortical and cerebellar neurometabolic alterations in cervical spondylotic myelopathy 29th Annual Meeting of AANS/CNS Section on Disorders of the Spine and Peripheral Nerves, Phoenix, Arizona, 2013

2009-2011 "Neural Predictors of Arm Motor Function in Stroke"

Finantare: 25.000 USD

Organizatie/sponsor: Clinical Pilot and Lied Endowed Basic Science - KUMC - Kansas City

Pozitie: Co-Investigator

Publicatii rezultate in urma grantului de cercetare:

1. Cirstea CM, Lee P, Craciunas SC, Choi IY, Burris JE, Nudo RJ. Pre-therapy Neural State of Bilateral Motor and Premotor Cortices Predicts Therapy Gain After Subcortical Stroke: A Pilot Study. *Am J Phys Med Rehabil.* 2018 Jan;97(1):23-33. doi: 10.1097/PHM.0000000000000791.PMID: 28737516

2. Cirstea CM, Burris JE, Peng H, Nanda A, Singh N, Craciunas SC. Cortical Neurochemical Profile Depends on the Origin and the Site of the Central nervous System Injury, *PM R.* 2016 Sep;8(9S):S157. doi: 10.1016/j.pmrj.2016.07.035.

3. Cirstea CM, Savage CR, Nudo RJ, Cohen LG, Yeh HW, Choi IY, Lee P, Craciunas SC, Popescu EA, Bani-Ahmed A, Brooks WM. Handgrip-Related Activation in the Primary Motor Cortex Relates to Undelying Neuronal Metabolism After Stroke *Neurorehabil Neural Repair.* 2014 Jun;28(5):433-42. doi: 10.1177/1545968313516868.

4. Craciunas SC, Brooks WM, Nudo RJ, Popescu EA, Popescu EA, Choi IY, Lee P, Yeh HW, Savage CR, Cirstea CM Motor and premotor cortices in subcortical stroke: proton magnetic resonance measures and arm motor impairment *Neurorehabilitation Neural Repair* 2013

5. Cirstea CM, Nudo RJ, Craciunas SC, Popescu EA, Choi IY, Lee P, Yeh HW, Savage CR, Brooks WM Neuronal-glia alterations in non-primary motor areas in chronic subcortical stroke, *Brain Res.* 2012 Jun 29;1463:75-84 Epub 2012 May 7

6. Cirstea MC, Brooks WM, Craciunas CS, Popescu AE, Choi I, Lee S, Bani-Ahmed A, Yeh HW, Savage CR, Cohen LG, Nudo RJ. Primary motor cortex in stroke – a functional MRI-guided proton magnetic resonance spectroscopic study. *Stroke,* 42 (2), 2011

7. Cirstea MC, Nudo RJ, Craciunas CS, Brooks WM Biochemical plastic changes in primary motor cortex in subcortical stroke, *Stroke,* 40, 69, 2009

Prezentari la congrese:

1. Cirstea MC, Burris JE, Peng H, Nanda A, Singh N, Craciunas CS. Cortical neurochemical profile depends on the origin and the site of the central nervous system injury. American Association of Physical Medicine & Rehabilitation, New Orleans, 2016 Selected for Best Neurological Rehabilitation Research Podium Presentations

2. Cirstea MC, Bani-Ahmed A, Brooks MW, Nudo RJ, Savage CR, Craciunas CS. Motor cortical reorganization and "true" recovery after stroke. Society for Neuroscience, 43th Annual Meeting, San Diego, 2013

3. SC Craciunas, A. Bani-Ahmed, RJ Nudo, WM Brooks, AE Popescu, CM Cirstea. Motor and premotor cortices biochemistry and motor impairment in stroke Society for Neuroscience Annual Meeting, New Orleans, Louisiana, USA, 2012
4. CM Cirstea, A Bani-Ahmed, RJ Nudo, WM Brooks, CR Savage, SC Craciunas, AE Popescu Primary motor cortex in stroke – relationship between functional and biochemical measures Society for Neuroscience Annual Meeting, New Orleans, Louisiana, USA, 2012
5. CM Cirstea, H. Yeh, EA Popescu, A. Bahni-Ahmed, I. Choi, P. Lee, SC Craciunas, WM Brooks Is "metabolic connectivity" across spared non-primary motor areas altered in stroke? ISMRM, 20th Annual Meeting, Melbourne, Australia 2012
6. CM Cirstea, SC Craciunas, RJ Nudo, WM Brooks Multivariate technique improves stroke recovery prediction, Society for Neuroscience 40th Annual Meeting, Washington, US, 2011
7. CM Cirstea, RJ Nudo, WM Brooks, AE Popescu, SC Craciunas Does metabolite connectivity across spared motor areas is altered in stroke? Human Brain Mapping Congress , Quebec City, Canada, 2011
8. Craciunas CS, Bahni-Ahmed A, Brooks MW, Nudo R, Popescu EA, Choi IY, Lee SP, Cirstea CM Metabolic profile of motor cortex in stroke, International Stroke Conference, Los Angeles, 2011
9. Cirstea MC, Brooks WM, Craciunas CS, Popescu AE, Choi I, Lee S, Yeh H, Bani-Ahmed A, Nudo RJ. Stroke recovery neural predictors. Society for Neuroscience 40th Annual Meeting, San Diego, US, 2010
10. Bani-Ahmed A, Brooks WM, Nudo RJ, Craciunas CS, Popescu EA, Choi I, Lee S, Yeh H, Cirstea MC. Metabolite distribution across primary and secondary motor areas in chronic stroke. Society for Neuroscience 40th Annual Meeting, San Diego, US, 2010
11. Cirstea MC, Nudo RJ, Craciunas CS, Brooks WM. Biochemical Plastic Changes in Primary Motor Cortex in Subcortical Stroke. International Stroke Conference, San Diego, US, 2009
12. Cirstea MC, Brooks WM, Craciunas CS, Popescu AE, Huffles LJ, Savage CR, Nudo RJ. Neural reorganization in chronic stroke. Society for Neuroscience 39th Annual Meeting, Chicago, US, 2009
13. Cirstea MC, Nudo RJ, Craciunas CS, Brooks WM. Biochemical plastic changes in primary motor cortex in subcortical stroke. International Stroke Conference, San Diego, US, 2009

SERVICIU ACADEMIC

Reviewer pentru *Stroke*, AHA Journal

Board of Reviewers — Global Spine Congress—Buenos Aires 2015

Lector invitat la "AOSNA Advanced Concepts in the Management of Spinal Disorders Course", August 19-22, 2010 Chicago

Pathobiology of Human Function II (REHS 863, 4 credits) Lector invitat: "Spinal cord injury III: New Therapeutic Directions" (curs pentru doctoranzi), University of Kansas Medical Center, 2010

Pathobiology of Human Function II (REHS 863, 4 credits) Lector invitat: "Spinal cord injury II: Clinical Management" (curs pentru doctoranzi), University of Kansas Medical Center, 2008

Pathobiology of Human Function II (REHS 863, 4 credits) Lector invitat: "Spinal cord injury I: From pathology to clinic" (curs pentru doctoranzi), University of Kansas Medical Center, 2007

Supervizare studenti (medicina; doctoranzi; scoala postdoctorala), Hoglund Brain Imaging Center, University of Kansas Medical Center, 2007-08

PREMII/ONORURI Selectie pentru "Best to Shown Paper" Session – Congresul European de Chirurgie Spinală – Eurospine – Liverpool, 2013

Hansjworg Wyss Award – Congresul Mondial de Chirurgie Spinala – Barcelona, 2011

Synthes North America Travel Award – Congresul de Neurotrauma – Orlando, 2008