

PERSONAL INFORMATION

Pasquale De Bonis



✉ pasquale.debonis@unife.it

🌐 www.neurochirurgiaferrara.it

Date of birth 5 Oct 1979

WORK EXPERIENCE

29/12/2017–Present

Head, Neurosurgery Residency Program at University of Ferrara

01/04/2017–Present

Associate Professor of Neurosurgery

University of Ferrara, Ferrara (Italy)

Department of Morphology, Surgery and Experimental Medicine

27/02/2013–Present

Consultant Neurosurgeon

Ferrara University Hospital S. Anna, Ferrara (Italy)

Responsibility:

-Neurotrauma and Hydrocephalus

-Spine Surgery

01/02/2013–26/02/2013

Consultant Neurosurgeon

Asl Latina, Ospedale S. Maria Goretti, Latina (Italy)

EDUCATION AND TRAINING

01/2010–12/2012

PhD Neuroscience

Catholic University School of Medicine, Rome (Italy)

04/2005–11/2009

Neurosurgeon

Catholic University School of Medicine, Rome (Italy)

cum laude

10/1999–07/2004

Doctor in Medicine and Surgery

Catholic University School of Medicine, Rome (Italy)

cum laude

PERSONAL SKILLS

Mother tongue(s)

Italian

Other language(s)

UNDERSTANDING		SPEAKING		WRITING
Listening	Reading	Spoken interaction	Spoken production	

English	C1	C2	C1	C1	C1
French	B1	B2	B1	B1	B1

Levels: A1 and A2: Basic user - B1 and B2: Independent user - C1 and C2: Proficient user
Common European Framework of Reference for Languages

Job-related skills **ACADEMIC PROFILE**

Number of published papers on peer-reviewed international Journals

82

H-Index (Scopus): 20

Impact factor: 320.593

Italian National Scientific Qualification (Abilitazione Scientifica Nazionale): Associate Professor of Neurosurgery (2014-2020)

Italian National Scientific Qualification (Abilitazione Scientifica Nazionale): Full Professor of Neurosurgery (2017-2023)

Editorial Board Member for International Peer-reviewed Journals:

Clinical Neurology and Neurosurgery (Elsevier), I.F. 1.240

BioMed Research International (Hindawi), I.F. 2.880

Interdisciplinary Neurosurgery: Advanced Techniques & Case Management (Elsevier)

Journal of Neurosurgical Sciences (Minerva Medica): I.F. 1.522

Referee for International Peer-reviewed Journals:

Neurosurgery; Journal of Neuroimaging; Clinical Neurology and Neurosurgery; Childs Nervous System; Expert Review of Neurotherapeutics; Neurological Research; BMC Neurology; Neurosurgical Review; Interdisciplinary Neurosurgery; Journal of Neurosurgical Sciences; Spine; BioMed Research International; Technology in Cancer Research and Treatment; International Journal of Medical Sciences; Medical Principles and Practice.

Rater del McMaster Online Rating System dal 2008 (McMaster University Hamilton, Ontario, CANADA)

Awards

2013: Italian Society of Neurosurgery (*SINCh*) *Tekmed prize* for the best published paper on multiparametric monitoring of head trauma

2013: "Award of Excellence in Reviewing" 2013 by Elsevier in recognition of an outstanding contribution to the quality of the journal (Clinical Neurology and Neurosurgery)

2018: *European Award (3rd place)* for Best paper on treatment of spinal diseases. *AO Spine European Young Researcher Award 2017* (De Bonis P, Mongardi L, Pompucci A, Ricciardi L, Cavallo MA, Farneti M, Lapparelli M, Capone G, Altruda C, Schivalocchi R, Campioni P, Ghisellini G, Trapella G. Transpars Microscopic Approach for the Treatment of Purely Foraminal Herniated Lumbar Disc: A Clinical, Radiological, Two-center Study. Spine (Phila Pa 1976). 2017 Mar 15;42(6):E371-E378. doi: 10.1097/BRS.0000000000001839.)

Research Projects

· **PRIN (Research Projects of National Interest-Ministry of University and Research, Italy)**

2006: proteomic and genomic study on glioblastoma stem cells prot. 2006053729_002. Role: research unit component.

- **Ricerca Finalizzata bando 2013 (Ministry of Health):** RF-2013-02358029. Validation of a novel non-invasive technique based on real-time ultrasound B-mode to assess the jugular venous pulse. Role: head of a research unit. Funds received: €268.100

Main Areas of Research

Neuro-Oncology; Neurotrauma; Intracranial system and Hydrocephalus; Spine Surgery

TEACHING ACTIVITY

- Neurosurgery, for Medicine and Surgery Students at Ferrara University, year V (since 2017)
- Neurosurgery for residency program of Orthopaedics at Ferrara University (since 2018)
- Neurosurgery for residency program of Neurology at Ferrara university (since 2018)
- General Neurosurgery for residency program of Neurosurgery at Ferrara University (since 2018)

SURGICAL ACTIVITY

Competence in brain surgery and spine surgery.

Over 1500 surgical procedures (more than 700 procedures for brain surgery and 800 procedures for spine and peripheral nerves surgery)

PUBLISHED PAPERS

1. Mangiola A, De Bonis P, Gueriero M, Pompucci A, Anile C. Gliomatosis cerebri and pituitary adenoma: case report and literature review. *J Neurooncol.* 2005 Sep; 74 (3) :321-4. PubMed PMID:16132522.
2. Mangiola A, Maira G, De Bonis P, Porso M, Pettorini B, Sabatino G, Anile C. Glioblastoma multiforme in the elderly: a therapeutic challenge. *J Neurooncol.* 2006 Jan; 76 (2) :159-63. PubMed PMID:16132492.
3. Lama G, Mangiola A, Anile C, Sabatino G, De Bonis P, Lauriola L, Giannitelli C, La Torre G, Jhanwar-Uniyal M, Sica G, Maira G. Activated ERK1/2 expression in glioblastoma multiforme and in peritumor tissue. *Int J Oncol.* 2007 Jun; 30 (6) :1333-42. PubMed PMID:17487353.
4. Pompucci A, De Bonis P, Pettorini B, Petrella G, Di Chirico A, Anile C. Decompressive craniectomy for traumatic brain injury: patient age and outcome. *J Neurotrauma.* 2007 Jul; 24 (7) :1182-8. PubMed PMID:17610357.
5. Pompucci A, De Bonis P, Sabatino G, Federico G, Moschini M, Anile C, Mangiola A. Cranio-spinal subdural empyema due to *S intermedius*: a case report. *J Neuroimaging.* 2007 Oct; 17 (4) :358-60. PubMed PMID:17894630.
6. Cioni B, Meglio M, Perotti V, De Bonis P, Montano N. Neurophysiological aspects of chronic motor cortex stimulation. *Neurophysiol Clin.* 2007 Dec; 37 (6) :441-7. PubMed PMID:18083500.
7. Mangiola A, Lama G, Giannitelli C, De Bonis P, Anile C, Lauriola L, La Torre G, Sabatino G, Maira G, Jhanwar-Uniyal M, Sica G. Stem cell marker nestin and c-Jun NH2-terminal kinases in tumor and peritumor areas of glioblastoma multiforme: possible prognostic implications. *Clin Cancer Res.* 2007 Dec 1; 13 (23) :6970-7. PubMed PMID:18056172.

8. De Bonis P, Anile C, Tamburrini G, Tartaglione T, Mangiola A. Adult idiopathic occlusion of the foramina of Monro: diagnostic tools and therapy. *J Neuroimaging*. 2008 Jan; 18 (1) :101-4. PubMed PMID:18190506.

9. Montano N, Lauriola L, Colosimo C, Cioni B, Bonis PD, Papacci F, Meglio M. Intramedullary thrombosed venous ectasia mimicking hemangioblastoma. *Eur J Neurol*. 2008 Feb; 15 (2) :e10-11. PubMed PMID:18320640.

10. De Bonis P, Novegno F, Tamburrini G, Anile C, Pompucci A, Mangiola A. Teaching NeuroImage: Prepontine-suprasellar arachnoid cyst presenting with signs of normal pressure hydrocephalus. *Neurology*. 2008 Feb 5; 70 (6) :e26. PubMed PMID:18250284.

11. Montano N, De Bonis P, Doglietto F, Cianfoni A, Pallini R, Lauriola L, Maira G. Teaching NeuroImage: hemorrhagic ependymoma in the elderly: a rare cause of headache and gait imbalance. *Neurology*. 2008 Jun 3; 70 (23) :e95. PubMed PMID:18519865.

12. Montano N, De Bonis P, Lauriola L, Papacci F, Lucantoni C, Colosimo C, Cioni B, Meglio M. Late onset cerebellar metastasis from oesophageal adenocarcinoma in Williams Syndrome. *J Neurooncol*. 2008 Jul; 88 (3) :349-51. PubMed PMID:18392775.

13. Mangiola A, de Bonis P, Maira G, Balducci M, Sica G, Lama G, Lauriola L, Anile C. Invasive tumor cells and prognosis in a selected population of patients with glioblastoma multiforme. *Cancer*. 2008 Aug 15; 113 (4) :841-6. PubMed PMID:18618580.

14. De Bonis P, Lucantoni C, D'Angelo L, Doglietto F, Romano D, Visocchi M. Teaching NeuroImage: spinal extradural arachnoid cyst: a rare cause of back pain. *Neurology*. 2008 Aug 26; 71 (9) :e24. PubMed PMID:18725585.

15. Montano N, Nucci CG, Doglietto F, Cianfoni A, Lucantoni C, De Bonis P, Tamburrini G, Visocchi M. Teaching NeuroImage: Spontaneous idiopathic spinal subdural hematoma. *Neurology*. 2008 Sep 2; 71 (10) :e27. PubMed PMID:18765644.

16. Anile C, De Bonis P, Di Chirico A, Ficola A, Mangiola A, Petrella G. Cerebral blood flow autoregulation during intracranial hypertension: a simple, purely hydraulic mechanism?. *Childs Nerv Syst*. 2009 Mar; 25 (3) :325-35; discussion 337-40. PubMed PMID:19152096.

17. Massimi L, De Bonis P, Esposito G, Novegno F, Pettorini B, Tamburrini G, Caldarelli M, Di Rocco C. Vertex scalp mass as presenting sign of a complex intracranial vascular malformation. *J Neurosurg Pediatr*. 2009 Apr; 3 (4) :307-10. PubMed PMID:19338409.

18. De Bonis P, Montano N, Cioni B, Colosimo C, Lauriola L, Papacci F, Meglio M. Primary extramedullary extradural ependymoma of the thoracic spine mimicking a schwannoma. *J Neurol Neurosurg Psychiatry*. 2009 May; 80 (5) :579-81. PubMed PMID:19372297.

19. De Bonis P, Anile C, Pompucci A, Labonia M, Lucantoni C, Mangiola A. Cranial and spinal subdural empyema. *Br J Neurosurg*. 2009 Jun; 23 (3) :335-40. PubMed PMID:19533473.

20. Pettorini BL, Novegno F, Cianfoni A, Massimi L, De Bonis P, Esposito G, Caldarelli M, Tamburrini G, Di Rocco C, Giangaspero F, Lauriola L. 5-year-old boy with a clival mass. *Brain Pathol*. 2009 Jul; 19 (3) :523-6. PubMed PMID:19563544.

21. Lucantoni C, De Bonis P, Doglietto F, Esposito G, Larocca LM, Mangiola A, Martini M, Papacci F, Teofili L, Pompucci A. Primary cerebral lymphomatoid granulomatosis: report of four cases and

literature review. *J Neurooncol.* 2009 Sep; 94 (2) :235-42. PubMed PMID:19322520.

22. Albanese A, De Bonis P, Sabatino G, Capone G, Marchese E, Vignati A, Maira G. Antibiotic-impregnated ventriculo-peritoneal shunts in patients at high risk of infection. *Acta Neurochir (Wien).* 2009 Oct; 151 (10) :1259-63. PubMed PMID:19390777.

23. *Esposito G, de Bonis P, Tamburrini G, Massimi L, Byvaltsev V, di Rocco C, Leone A. Unilateral hyperplasia of the left posterior arch and associated vertebral schisis at C6 level. Skeletal Radiol.* 2009 Dec; 38 (12) :1191-5. PubMed PMID:19633840.

24. Mangiola A, Anile C, Pompucci A, Capone G, Rigante L, De Bonis P. Glioblastoma therapy: going beyond Hercules Columns. *Expert Rev Neurother.* 2010 Apr; 10 (4) :507-14. PubMed PMID:20367204.

25. De Bonis P, Pompucci A, Mangiola A, D'Alessandris QG, Rigante L, Anile C. Decompressive craniectomy for the treatment of traumatic brain injury: does an age limit exist?. *J Neurosurg.* 2010 May; 112 (5) :1150-3. PubMed PMID:19645536.

26. Anile C, De Bonis P, Albanese A, Di Chirico A, Mangiola A, Petrella G, Santini P. Selection of patients with idiopathic normal-pressure hydrocephalus for shunt placement: a single-institution experience. *J Neurosurg.* 2010 Jul; 113 (1) :64-73. PubMed PMID:20151782.

27. Cianfoni A, Calandrelli R, De Bonis P, Pompucci A, Lauriola L, Colosimo C. Nocardia brain abscess mimicking high-grade necrotic tumor on perfusion MRI. *J Clin Neurosci.* 2010 Aug; 17 (8) :1080-2. PubMed PMID:20488710.

28. Balducci M, Apicella G, Manfreda S, Mangiola A, Fiorentino A, Azario L, D'Agostino GR, Frascino V, Dinapoli N, Mantini G, Albanese A, de Bonis P, Chiesa S, Valentini V, Anile C, Cellini N. Single-arm phase II study of conformal radiation therapy and temozolomide plus fractionated stereotactic conformal boost in high-grade gliomas: final report. *Strahlenther Onkol.* 2010 Oct; 186 (10) :558-64. PubMed PMID:20936460.

29. De Bonis P, Pompucci A, Mangiola A, Rigante L, Anile C. Post-traumatic hydrocephalus after decompressive craniectomy: an underestimated risk factor. *J Neurotrauma.* 2010 Nov; 27 (11) :1965-70. PubMed PMID:20812777.

30. Sica G, Lama G, Anile C, Geloso MC, La Torre G, De Bonis P, Maira G, Lauriola L, Jhanwar-Uniyal M, Mangiola A. Assessment of angiogenesis by CD105 and nestin expression in peritumor tissue of glioblastoma. *Int J Oncol.* 2011 Jan; 38 (1) :41-9. PubMed PMID:21109924.

31. De Bonis P, Mangiola A, Pompucci A, Anile C. Decompressive craniectomy and hydrocephalus. *Neurosurgery.* 2011 Jun; 68 (6) :E1777-8; author reply E1778-9. PubMed PMID:21389892.

32. De Bonis P, Albanese A, Lofrese G, de Waure C, Mangiola A, Pettorini BL, Pompucci A, Balducci M, Fiorentino A, Lauriola L, Anile C, Maira G. Postoperative infection may influence survival in patients with glioblastoma: simply a myth?. *Neurosurgery.* 2011 Oct; 69 (4) :864-8; discussion 868-9. PubMed PMID:21900810.

33. De Bonis P, Pompucci A, Mangiola A, Patemoster G, Festa R, Nucci CG, Maviglia R, Antonelli M, Anile C. Decompressive Craniectomy for Elderly Patients with Traumatic Brain Injury: It's Probably not Worth the While. *J Neurotrauma.* 2011 Oct; 28 (10) :2043-8. PubMed PMID:21639728.

34. Calcagni ML, Lavallo M, Mangiola A, Indovina L, Leccisotti L, De Bonis P, Marra C, Pelliccioni A, Anile C, Giordano A. Early evaluation of cerebral metabolic rate of glucose (CMRglu) with (18)F-FDG PET/CT and clinical assessment in idiopathic normal pressure hydrocephalus (INPH) patients before

- and after ventricular shunt placement: preliminary experience. *Eur J Nucl Med Mol Imaging*. 2011 Oct 13; PubMed PMID:21993525.
35. De Bonis P, Frassanito P, Nucci CG, Mangiola A, Anile C, Pompucci A. Cranial repair: how complicated is filling a "hole". *J Neurotrauma*. 2011 Nov 8; PubMed PMID:22059899.
36. Anile C, De Bonis P, Ficola A, Santini P, Mangiola A. An experimental study on artificially induced CSF pulse waveform morphological modifications. *Neurol Res*. 2011 Dec;33(10):1072-82
37. Frassanito P, De Bonis P, Caputo CG, Mangiola A, Pompucci A, Nucci CG, Trevisi G, Anile C. "Blinding" empty sella: can lumbar puncture be avoided? *Arch Neurol* 2012 Mar 12
38. Mangiola A, Calcagni ML, De Bonis P, Rigante L, Pompucci A, La Valle MD, Indovina L, Giordano A, Anile C. Cerebral metabolic rate for glucose of NPH patients increases in shunt-reponders. *J Neurol Neurosurg Psychiatry*. 2012 Apr;83(4):466-7.
39. Frassanito P, De Bonis P, Mattogno PP, Novello M, Anile C. Hormonal therapy for fertility and huge meningioma: a purely random association? *Acta Neurol Belg*. 2012 Feb 15.
40. Masciullo M, Mattogno PP, Modoni A, Silvestri G, De Bonis P. Subdural hematoma in a young woman with an "old" brain. *Acta Neurol Belg*. 2012 Mar 9.
41. De Bonis P, Anile C, Pompucci A, Fiorentino A, Balducci M, Chiesa S, Lauriola L, Maira G, Mangiola A. The influence of surgery on recurrence pattern of Glioblastoma. *Clin Neurol Neurosurg*. 2012 Apr 24.
42. De Bonis P, Mangiola A, Pompucci A, Formisano R, Mattogno P, Anile C. CSF dynamics analysis in patients with post-traumatic ventriculomegaly. *Clin Neurol Neurosurg*. 2012 May 15.
43. Balducci M, Fiorentino A, De Bonis P, Chiesa S, Manfrida S, D'Agostino GR, Mantini G, Frascino V, Mattiucci GC, De Bari B, Mangiola A, Micciche` F, Gambacorta MA, Colicchio G, Morganti AG, Anile C, Valentini V. Impact of age and co-morbidities in patients with newly diagnosed glioblastoma: a Pooled Data Analysis of Three Prospective Mono-institutional Phase II Studies. *Medical Oncology* 2012 Dec;29(5):3478-83.
44. Doglietto F, Colosimo C, Lauriola L, Balducci M, De Bonis P, Montano N, Zadeh G, Maira G, Pallini R. Intracranial melanocytic meningeal tumours and melanosis oculi: case report and literature review. *BMC Cancer*. 2012 Jun 6;12(1):220
45. De Bonis P, Anile C, Pompucci A, Fiorentino A, Balducci M, Chiesa S, Maira G, Mangiola A. Safety and efficacy of Gliadel wafers for newly diagnosed and recurrent Glioblastoma. *Acta Neurochirurgica* 2012 Aug;154(8):1371-8
46. De Bonis P, Mattogno PP, De Simone C, Pompucci A, Mangiola A. A strange case of "postural monoparesis" *Acta Neurol Belg*. 2012 Jun 28.
47. De Bonis P, Mattogno PP, Capone G, Mangiola A, Anile C. A rare cause of CSF shunt "failure" in a patient with NPH. *Acta Neurol Belg*. 2012 Jul 7.
48. Anile C, De Bonis P, Fernandez E, Ficola A, Petrella G, Santini P, Mangiola A. Blood flow velocities during experimental intracranial hypertension in pigs. *Neurol Res* 2012 Nov;34(9):859-63
49. De Bonis P, Tamburrini G, Mangiola A, Pompucci A, Mattogno P, Porso M, Anile C. Post-

traumatic hydrocephalus is a contraindication for endoscopic third-ventriculostomy: isn't it? *Clin Neurol Neurosurg* 2013 Jan;115(1):9-12

50. Sturiale CL, De Bonis P, Rigante L, Calandrelli R, D'Arrigo S, Pompucci A, Mangiola A, D'Apolito G, Colosimo C, Anile C. Do traumatic brain contusions increase in size after decompressive craniectomy? *J Neurotrauma* 2012 Aug 8

51. De Bonis P, Doglietto, F, Anile C, Pompucci A, Mangiola A. Electric Fields for the Treatment of Glioblastoma. *Exp Rev Neurother* 2012 Oct;12(10):1181-4

52. De Bonis P, Mangiola A, Pompucci A, Porso M, Anile C. High-grade Glioma: Elderly Patients, Older Treatments. *Exp Rev Neurother* 2012 Nov;12(11):1293–1296

53. De Bonis P, Fiorentino A, Anile C, Pompucci A, Balducci M, Chiesa S, Sica G, Lama G, Maira G, Mangiola A. The impact of repeated surgery and adjuvant therapy on survival for patients with recurrent glioblastoma. *Clin Neurol Neurosurg* 2013 Jul;115(7):883-6.

54. Frassanito P, De Bonis P, Mangiola A, Mattogno PP, Novello M, Brinchi D, Pompucci A, Anile C. The fate of a macroporous hydroxyapatite cranioplasty four years after implantation: macroscopical and microscopical findings in a case of recurrent atypical meningioma. *Clin Neurol Neurosurg* 2013 Aug;115(8):1496-8.

55. De Bonis P, Sturiale CL, Anile C, Gaudino S, Mangiola A, Martucci M, Rigante L, Pompucci A. Decompressive craniectomy, interhemispheric hygroma and hydrocephalus: a timeline of events? *Clin Neurol Neurosurg* 2013 Aug;115(8):1308-12

56. Binda E, Visioli A, Giani F, Lamorte G, Copetti M, Pitter KL, Huse JT, Cajola L, Zanetti N, Dimeco F, De Filippis L, Mangiola A, Maira G, Anile C, De Bonis P, Reynolds BA, Pasquale EB, Vescovi AL. The EphA2 Receptor Drives Self-Renewal and Tumorigenicity in Stem-like Tumor-Propagating Cells from Human Glioblastomas. *Cancer Cell*, 2012 Dec 11;22(6):765-80.

57. Fiorentino A, Balducci M, De Bonis P, Chiesa S, De Filippo L, Mangiola A, De Rose F, Autorino R, Rinaldi C, Fersino S, Diletto B, Matteucci P, Ciurlia E, Fusco V, Anile C, Valentini V. Can Elderly Patients with Newly Diagnosed Glioblastoma Be Enrolled in Radiochemotherapy Trials? *American Journal of Clinical Oncology* 2013 Feb 5.

58. Mangiola A, Saulnier N, De Boni P, Orteschi D, Sica G, Lama G, Pettorini BL, Sabatino G, Zollino M, Lauriola L, Colabianchi A, Proietti G, Kovacs G, Maira G, Anile C. Gene Expression Profile of Glioblastoma Peritumoral Tissue: an ex vivo Study. *PLOS One* 2013;8(3):e57145.

59. De Bonis P, Anile C, Honeybul S. Intracranial-pressure monitoring in traumatic brain injury. *The New England Journal of Medicine* 2013 May 2;368(18):1749-50

60. Calcagni ML, Taralli S, Mangiola A, Indovina L, Lavalie MD, De Bonis P, Anile C, Giordano A. Regional metabolic rate of glucose (CMRglu) evaluation and clinical assessment in idiopathic normal-pressure hydrocephalus (INPH) patients before and after ventricular shunt placement. A prospective analysis. *Clinical Nuclear Medicine* 2013 Jun;38(6):426-31.

61. Balducci M, Fiorentino A, De Bonis P, Chiesa S, Mangiola A, Mattiucci GC, D'Agostino GR, Frascino V, Mantini G, Alitto AR, Colosimo C, Anile C, Valentini V. Concurrent and adjuvant temozolomide-based chemoradiotherapy schedules for glioblastoma : Hypotheses based on two prospective phase II trials. *Strahlenther Onkol.* 2013 Aug 24.

62. De Bonis P, Trevisi G, de Waure C, Sferazza A, Volpe M, Pompucci A, Anile C, Mangiola A. Antiplatelet/anticoagulant agents and chronic subdural hematoma in the elderly. *PLoS One.* 2013 Jul

12;8(7):e68732.

63. De Bonis P, Lofrese G, Anile C, Pompucci A, Vigo V, Mangiola A. Radioimmunotherapy for high-grade glioma. *Immunotherapy*. 2013 Jun;5(6):647-59.

64. Fiorentino A, Bonis PD, Chiesa S, Balducci M, Fusco V. Elderly patients with glioblastoma: the treatment challenge. *Expert Rev Neurother*. 2013 Oct;13(10):1099-105.

65. De Bonis P, Marziali G, Vigo V, Peraio S, Pompucci A, Anile C, Mangiola A. Antiangiogenic Therapy for High Grade Gliomas: Current Concepts and Limitations. *Expert Rev Neurother*. 2013 Nov;13(11):1263-70. doi: 10.1586/14737175.2013.856264.

66. Fazi B, Felsani A, Grassi L, Moles A, D'Andrea D, Toschi N, Sicari D, De Bonis P, Anile C, Guerrisi MG, Luca E, Farace MG, Maira G, Ciafré SA, Mangiola A. The transcriptome and miRNome profiling of glioblastoma tissues and peritumoral regions highlights molecular pathways shared by tumors and surrounding areas and reveals differences between short-term and long-term survivors. *Oncotarget*. 2015 Sep 8;6(26):22526-52. PubMed PMID: 26188123.

67. De Bonis P, Zamboni P. Intracranial relationship between arterioles and venules size. *JAMA Neurol*. 2015 Jan;72(1):124. doi: 10.1001/jamaneurol.2014.3514. PubMed PMID: 25581862.

68. De Bonis P, Lofrese G, Scoppettuolo G, Spanu T, Cultrera R, Labonia M, Cavallo MA, Mangiola A, Anile C, Pompucci A. Intraventricular versus intravenous colistin for the treatment of extensively drug resistant *Acinetobacter baumannii* meningitis. *Eur J Neurol*. 2016 Jan;23(1):68-75. doi: 10.1111/ene.12789. PubMed PMID: 26228051

69. Mangiola A, Vigo V, Anile C, De Bonis P, Marziali G, Lofrese G. Role and Importance of IGF-1 in Traumatic Brain Injuries. *Biomed Res Int*. 2015;2015:736104. doi: 10.1155/2015/736104. Epub 2015 Aug 31. Review. PubMed PMID: 26417600; PubMed Central PMCID: PMC4568328.

70. Lama G, Mangiola A, Proietti G, Colabianchi A, Angelucci C, D'Alessio A, De Bonis P, Geloso MC, Lauriola L, Binda E, Biamonte F, Giuffrida MG, Vescovi A, Sica G. Progenitor/Stem Cell Markers in Brain Adjacent to Glioblastoma: GD3 Ganglioside and NG2 Proteoglycan Expression. *J Neuropathol Exp Neurol*. 2016 Jan 20. pii: nlv012. [Epub ahead of print] PubMed PMID: 26792897.

71. Peraio S, Calcagni ML, Mattoli MV, Marziali G, DE Bonis P, Pompucci A, Anile C, Mangiola A. Decompressive craniectomy and hydrocephalus: proposal of a therapeutic flow-chart. *J Neurosurg Sci*. 2016 Jan 12. [Epub ahead of print] PubMed PMID: 26756253.

72. Nucci CG, De Bonis P, Mangiola A, Santini P, Sciandrone M, Risi A, Anile C. Intracranial pressure wave morphological classification: automated analysis and clinical validation. *Acta Neurochir (Wien)*. 2016 Jan 8. [Epub ahead of print] PubMed PMID: 26743919.

73. De Bonis P, Cingolani A, Pompucci A, Tartaglione T, Larocca LM, Teofili L. Cauda Equina Enhancing Lesion in an HIV-Infected Patient. Case Report and Literature Review. *Mediterr J Hematol Infect Dis* 2011, 3: e2011042, DOI 10.4084/MJHID.2011.042

74. Anile C, De Bonis P, Mangiola A, Mannino S, Santini P. A New Method of Estimating Intracranial Elastance. *Interdisciplinary Neurosurgery* 2014, 1(2): 26-30

75. De Bonis P, Anile C. Storms, hanged pirates, anemia, exsanguination: the contributions of Monro, Kellie and Abercrombie in understanding intracranial blood circulation. *Veins and Lymphatics* 2014, 3 (3)

76. Battaglia L, Panciani PP, Muntoni E, Capucchio MT, Biasibetti E, De Bonis P, Mioletti S, Fontanella M, Swaminathan S. Lipid nanoparticles for intranasal administration: application to nose-to-brain delivery. *Expert Opin Drug Deliv.* 2018 Jan 17. doi: 10.1080/17425247.2018.1429401. [Epub ahead of print] PubMed PMID: 29338427.
77. Lambertini E, Penolazzi L, Angelozzi M, Grassi F, Gambari L, Lisignoli G, De Bonis P, Cavallo M, Piva R. The expression of cystathionine gamma-lyase is regulated by estrogen receptor alpha in human osteoblasts. *Oncotarget.* 2017 Oct 4;8(60):101686-101696. doi: 10.18632/oncotarget.21514. eCollection 2017 Nov 24. PubMed PMID: 29254196; PubMed Central PMCID: PMC5731906.
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Speaker at national and international congresses

- Mangiola, C. Anile, **P. De Bonis**, B. Pettorini, G. Sabatino, S. Mannino, C. Pedone, and G. Maira PROGNOSTIC RELEVANCE OF CLINICAL AND THERAPEUTICAL ASPECTS IN PATIENTS WITH GLIOBLASTOMA MULTIFORME. ANALYSIS OF 99 PATIENTS A. World Federation of Neuro-Oncology Second Quadrennial Meeting and the Sixth Meeting of the European Association for Neuro-Oncology May 5–8, 2005 Edinburgh, United Kingdom
- A. Pompucci, **P. De Bonis**, C. Anile METASTASI CEREBRALI SINGOLE E MULTIPLE: RISULTATI DEL TRATTAMENTO CHIRURGICO SINCH (Società Italiana di Neurochirurgia) WINTER MEETING 2005
- A. Cassano, A. Pompucci, E. D'Argento, G. Schinzari, A. Di Chirico, **P. De Bonis**, M. Quirino, M. Basso, C. Anile, C. Barone Multimodality treatment of non small cells lung cancer (NSCLC) brain metastases: Long term outcome. ASCO Annual Meeting, 2006
- Lama G., Mangiola A., Giannitelli C., Anile C., Sabatino G., Lauriola L., De Silvestri S., **De Bonis P.**, Maira G., Sica G. JNK and nestin expression in peritumor tissue of glioblastoma 60° congresso della società italiana di Anatomia ed Istologia. Pavia 15-17 Settembre 2006
- **P. De Bonis**, M. Meglio, B. Cioni, C. Sturiale, S Daini La stimolazione del midollo spinale nel trattamento della Failed Back Surgery Syndrome (FBSS): 28 anni di esperienza personale Società Italiana di Neurochirurgia 55° congresso nazionale Sorrento, 19-22 novembre 2006
- **P De Bonis**, B Cioni, F Papacci, M Meglio Baclofen intratecale: Procedura chirurgica di impianto di sistema di infusione e Risultati a lungo termine 1° Congresso Nazionale Congiunto delle Società Scientifiche INS, FederDolore Riccione, 10-12 Maggio 2007
- **De Bonis P.**, Cioni B., Formisano R., Montano N., Meglio M. INTRATHECAL BACLOFEN INFUSION IN SEVERE SPASTICITY DUE TO ACQUIRED BRAIN INJURY 56° Congresso Nazionale della Società Italiana di Neurochirurgia Joint Meeting with Congress of Neurological Surgeons Roma, 24 – 26 giugno 2007
- **P. De Bonis**, A. Pompucci, B. Pettorini, G. Petrella, A. Di Chirico and C. Anile Decompressive Craniectomy for Traumatic Brain Injury: Patient Age and Outcome. 12th EMN Annual Meeting Euroacademia Multidisciplinaria Neurotraumatologica Roma (Italy), June 21-23, 2007
- Lama G., Spanò C., Mangiola A., Anile C., Lauriola L., Angelucci C., **De Bonis P.**, Sabatino G., Maira G., Sica G. EXPRESSION OF ENDOGLIN (CD105) TO ASSESS NEOANGIOGENESIS IN PERITUMOR TISSUE OF GLIOBLASTOMA. Società Italiana di Anatomia ed Istologia (SIAI) 62° Congresso Nazionale Verona, 14-16 settembre 2008
- Rigante M., Doglietto F., De Corso E., Passali G.C., Montano N., **De Bonis P.**, Tschabitscher M., Maira G. and Paludetti G. Endoscopic transsphenoidal surgery – a multidisciplinary approach. The importance of pre-surgical training in models and in the anatomy lab. XXII NATIONAL CONGRESS OF ITALIAN SOCIETY OF YOUNG SURGEONS (S.P.I.G.C.) 1st CONGRESS OF EUROPEAN SOCIETY OF YOUNG SURGEONS (E.S.Y.S.) June 18-20, 2009, Rome
- J. Galli, M. Rigante, F. Bussu, A. Mangiola, **P. De Bonis**, C. Parrilla, C. Anile, G. Paludetti. Facial nerve neurinoma limited to the cerebello-pontine angle/internal auditory canal: clinico-diagnostic approach and surgical management XI international facial nerve symposium, Rome 25-28 Apr 2009
- **P. De Bonis**, A. Albanese, G. Sabatino, G. Capone, E. Marchese, A. Vignati and G. Maira Antibiotic-impregnated ventriculo-peritoneal shunts in patients at high risk of infection. MD. 58° Congresso Nazionale della Società Italiana di Neurochirurgia, Lecce 16 Ottobre 2009
- **P. De Bonis**, A. Mangiola, A. Vescovi, G. Lama, G. Sica, L. Lauriola, SA Ciafrè, G. Maira, C.

Anile. Biology of Glioblastoma: an in vivo study on early events of cancerogenesis. 58° Congresso Nazionale della Società Italiana di Neurochirurgia, Lecce 15 Ottobre 2009

- **P. De Bonis**, S. Manfreda, G. R. D'Agostino, A. Mangiola, A. G. Morganti, V. Frascino, C. Anile and M. Balducci. Temozolomide and radiation therapy in elderly patients affected by glioblastomas: A pooled analyses of three prospective phase II trials. A. Fiorentino, S. Chiesa, ASCO Annual Meeting 2010 (June 4-8, 2010)

- G. Sica, G. Lama, C. Anile, M. C. Geloso, G. La Torre, **P. De Bonis**, G. Maira, L. Lauriola, M. Jhanwar-Uniyal, A. Mangiola. Expression of endoglin CD105 and nestin to assess neoangiogenesis in peritumor tissue of glioblastoma. ASCO Annual Meeting 2010 (June 4-8, 2010)

- **P. De Bonis**, A. Mangiola, N. Saulnier, G. Sabatino, C. Lucantoni, L. Lauriola, G. Sica, G. Maira, C. Anile. Analisi genomica del glioblastoma: studio *ex vivo* sugli eventi precoci della cancerogenesi. 59° Congresso Nazionale della Società Italiana di Neurochirurgia, Milano 27-30 ottobre 2010.

- **P. De Bonis**, A. Pompucci, A. Mangiola, C. Lucantoni, G. Maira, C. Anile. La craniotomia decompressiva nei pazienti con trauma cranico: età, GCS ed outcome. 59° Congresso Nazionale della Società Italiana di Neurochirurgia, Milano 27-30 ottobre 2010.

- **P. De Bonis**, A. Pompucci, L. Rigante, R. Formisano, G. Maira, C. Anile. Idrocefalo post-traumatico dopo craniotomia decompressiva: un fattore di rischio sottostimato. 59° Congresso Nazionale della Società Italiana di Neurochirurgia, Milano 27-30 ottobre 2010.

- A. Pompucci, **P. De Bonis**, A. Mangiola, G. Maira, C. Anile. La craniotomia decompressiva negli anziani: ne vale la pena? 59° Congresso Nazionale della Società Italiana di Neurochirurgia, Milano 27-30 ottobre 2010.

- C.L. Sturiale, P. De Bonis, A. Pompucci, C. Anile. The role of decompressive craniectomy on the evolution of traumatic contusion in the post-operative phase. 60° Congresso Nazionale della Società Italiana di Neurochirurgia, Milano 27-30 ottobre 2010.

- Mangiola A., **P. De Bonis**, A. Pompucci, C. Anile, M. Balducci, G. Maira. Tossicità del Gliadel intracavitario alla prima diagnosi ed alla recidiva nei gliomi di alto grado. XV Congresso nazionale Associazione Italiana di Neuro-Oncologia (AINO). Fiumicino, 3-6 Ottobre 2010.

- Anile C, Mangiola A, **De Bonis P**, Santini P, Ficola A. Effect of the venous output on the cerebrospinal fluid pulse pressure waveform in normal pressure hydrocephalus. Hydrocephalus ISHCSF conference, Copenhagen, September 4-7, 2011

- **DE BONIS P**, MANGIOLA A, CALCAGNI ML, POMPUCCI A, ANILE C. rCMRglu correlates with clinical status in NPH patients undergoing CSF-shunt: a preliminary study. Hydrocephalus ISHCSF conference, Copenhagen, September 4-7, 2011

- **DE BONIS P**, MANGIOLA A, POMPUCCI A, ANILE C. Decompressive craniectomy for elderly patients with traumatic brain injury: is it worth it? 14th European Congress of Neurosurgery, EANS, Rome, October 9-14, 2011

- **DE BONIS P**, MANGIOLA A, CALCAGNI ML, POMPUCCI A, ANILE C. 18F-FDG PET-CT in patients with normal pressure hydrocephalus: a preliminary study. 14th European Congress of Neurosurgery, EANS, Rome, October 9-14, 2011

- S. Chiesa, G. Chiloiro, S. Manfreda, A. Mangiola, G. R. D'Agostino, G. Mantini, A. Albanese, **P. De Bonis**, C. Anile, M. Balducci. Temozolomide-based chemoradiation in naïve pure and mixed anaplastic astrocytoma: Long term results of a phase II study. 2011 ASCO Annual Meeting

- Gina Lama, Anna Colabianchi, Gabriella Proietti, Annunziato Mangiola, **Pasquale De Bonis**, Elena Binda, Giulio Maira, Angelo Vescovi, Gigliola Sica: Cancer stem cells from glioblastoma and peritumor tissue. Book of Abstracts 65th Meeting of the Italian Society of Anatomy and Histology, Padova, 27-29 settembre, IJAE, Vol.116 (Suppl. 1):98, 2011.
- Gina Lama, Anna Colabianchi, Gabriella Proietti, Annunziato Mangiola, **Pasquale De Bonis**, Elena Binda, Giulio Maira, Angelo Vescovi, Gigliola Sica: Cancer stem cells from glioblastoma and peritumor tissue. Proceedings of the abstracts of The 16th world Congress on advances in Oncology, and 14th International Symposium on Molecular Medicine, 6-8 October, Rhodes Island, Greece, Int J Mol Med, Vol 28 (Suppl. 1): 256, 2011.
- **P. De Bonis**, C. L. Sturiale, L. Rigante, C. Anile, A. Mangiola, S. D'Arrigo, S. Gaudino, A. Pompucci. Craniectomy decompressiva, igroma interemisferico e idrocefalo: una successione di eventi? 60° Congresso Nazionale della Società Italiana di Neurochirurgia SINCh, Rimini, 11-14 ottobre 2012
- **P. De Bonis**: Le spondilodisciti post-chirurgiche. Società Medico-Chirurgica di Ferrara, 10 Maggio 2014
- **P. De Bonis**: Spinal Metastases: the Neurosurgeon Point of View. Ospedale S. Anna di Ferrara, 28 Febbraio 2014
- **P. De Bonis**. Cranial repair: how complicated is filling a hole. 2° congresso nazionale sulla cranioplastica, 13-14 Giugno 2014, Lecco
- **P. De Bonis**. Le stabilizzazioni con tecnica percutanea. Congresso Strategie di management e tecniche chirurgiche del rachide. Evitare e gestire le complicanze. Ferrara, 12 Dicembre 2014
- **P De Bonis**, L. Mongardi, G. Trapella, A. Pompucci, G. Ghisellini, C. Altruda, M. Farneti, M. Lapparelli, R. Schivalocchi, M.A. Cavallo. Transpars microscopic approach for the treatment of purely foraminal herniated lumbar disk: a two-center study. Congress of the world Federation of Neurosurgical Societies, Rome, Sep 8-12, 2015

ADDITIONAL INFORMATION

Cadaver-lab courses

-“Pedicle screw fixation: Hands on Cadaver Course” Dec 4th -5th , 2009, Universität Wien – Anatomie Waehringer Strasse 13 A-1090 Wien (personal tutor Prof. Agrillo, Head of Neurosurgery Ospedale Pertini, Rome).

-“IV Course of Skull-base surgery: Italian skull base dissection course “Fukushima style” Entry Level” May 13th -16th 2010, Menaggio, Italy (Prof. Ducati; tutor Prof Biroli, hhead of Neurosurgery Ospedale Bergamo)

-Practical aspects of Lumbar Posterior Fusion Pedicle screw placement: PLIF technique, TLIF technique”. March 8th – 9th , 2011 Zentrum für Anatomie und Zellbiologie der Medizinischen Universität Wien (tutor: Dr. Bassani, head of Vertebral Surgery Unit II, Istituto Ortopedico Galeazzi di Milano)

-“V Course of Skull-base surgery: Italian skull base dissection course “Fukushima style” September 26th -28th 2011, Menaggio, Italy (Prof. Ducati).

-“Hands-on skull base 3D Course Workshop: Transnasal and Beyond”. Turin, April 26-28, 2012 (Prof. Ducati, Prof. Galzio, Prof. Tschabitscher).

-“Minimally Disruptive Posterior Treatment Options for Spondylolisthesis & Stenosis with divergent screws” hands-on cadaver course. Amsterdam University, Feb 1 2016

Live Surgery Courses


-2012: percutaneous pedicle screws placement, Live Surgery Course Clinica Neurochirurgica Ospedali Riuniti Ancona (Dr. Trignani, Dr. Dobran)

-2010: Open and percutaneous pedicle screws placement, Live Surgery Course, Clinica Neurochirurgica Ospedali Riuniti Ancona (Dr. Trignani)

-2009: Live Surgery percutaneous pedicle screws placement (Prof. Nardi, Vertebral Surgery Unit Policlinico Casilino, Roma)

ANNEXES

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2016 European Award (3rd place) for Best paper on treatment of spinal diseases. AO Spine European Young Researcher Award 2017