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Biography

Professor Di Ieva received his Medical Degree in 2002 and specialisation in Neurosurgery in 2007 in Italy. He was a consultant neurosurgeon in Milan from 2007 to 2009, mainly involved in the treatment of brain and pituitary tumours, working closely with ENT and craniomaxillofacial surgeons, oncologists and radiation oncologists, as well as in the emergency management of neurotrauma. He also worked as a researcher at the Centre for Anatomy and Cell Biology of the Medical University of Vienna, Austria, from 2009 to 2011, where he completed a PhD in Clinical Neurosciences (introducing innovative methods in neuropathology and MRI). He was appointed A/Professor of Neuroanatomy in 2012 and was invited multiple times to teach neurotraumatology and neurosurgery in several countries, including Italy, Austria, Switzerland, Germany, USA, and UAE. Professor Di Ieva completed a 3-year clinical & research fellowship in skull base surgery in 2014 at the St. Michael's Hospital, University of Toronto, where he also gained further experience in the Gamma Knife radiosurgery and continued to perform emergency neurosurgery in one of the largest trauma centres of Ontario, Canada. His multidisciplinary experience allowed him to lead the publication of the "Handbook of Skull Base Surgery" (Thieme, New York, 2015), which is one of the most used books in the field worldwide. In 2015 Dr. Di Ieva moved to Sydney, where he worked further in general neurosurgery and complex spine surgery (mainly at the Macquarie University Hospital, North Shore Private and Royal North Shore Hospitals, and Sydney Adventist Hospital), earning the fellowship with the Royal Australasian College of Surgeons in 2017.

He is a full time consultant neurosurgeon at Macquarie Neurosurgery and Macquarie University Hospital and Professor of Neurosurgery at Macquarie University.

Clinical Expertise

Neuro-oncology (surgical and multidisciplinary treatment of tumours and cancer of the central and peripheral nervous systems); pituitary and skull base surgery (including treatment of complex tumours and conditions affecting the cranial nerves and the craniocervical junction); pain treatment (including microvascular decompression and percutaneous treatments for craniofacial pain and hemifacial spasm, decompression of peripheral nerves, spine surgery, neuromodulation); microneurosurgery, endoscopic and minimally invasive ("keyhole") neurosurgery; awake surgery and neuromonitoring; hydrocephalus; neurotraumatology, including the multidisciplinary management of traumatic brain and spine injuries and post-concussion patients.

Academic qualifications

Professor of Neurosurgery, Macquarie University

Professor of Neurosurgery, Italian Ministry of Education, Universities and Research

Associate Professor of Neuroanatomy, Medical University of Vienna, Austria

ARC Future Fellow (2020-2024)

MD, summa cum laude (2002)

European Board in Neurosurgery (2007)

PhD in Clinical Neurosciences (2011)

FRACS (Fellow of the Royal Australasian College of Surgeons, RACS)

2019 John Mitchell Crouch Fellowship, RACS

Fellowship in Skull Base Surgery and Neuro-oncology (St. Michael's Hospital, Toronto, Canada)

Fellowship in General and Spine Surgery (Royal North Shore Hospital, North Shore Private Hospital and Sydney Adventist Hospital, Sydney)

Associate Investigator, Australian Research Council (ARC) Centre of Excellence in Cognition and its Disorders (until 2018)

Associate Member of the Centre for Elite Performance, Expertise and Training, Macquarie University

Board Member of the Society for Brain Mapping & Therapeutics, USA (until 2019)

Employment

ARC Future Fellow

Research Fellow

Department of Clinical Medicine

Macquarie University

1 Jan 2020 → present

ARC Future Fellow

Australian Research Council

Canberra, Australia

1 Jan 2020 → 31 Dec 2024

Professor of Neurosurgery

Italian Ministry of Education, Universities & Research

Italy

31 Oct 2018 → present

Associate Professor of Neurosurgery

Ministry of Education, Universities and Research

Italy

1 Dec 2017 → present

Honorary Research Fellow

Garvan Institute Medical Research

Sydney, Australia

11 May 2015 → 11 May 2018

Associate Investigator

ARC Centre of Excellence in Cognition and its Disorders (CCD)

Canberra, Australia

Associate Member

Centre for Elite Performance, Expertise and Training (CEPET)

Australia

A/Prof. of Neuroanatomy

Medical University of Vienna

1090 Vienna, Austria

Board Member

Society for Brain Mapping & Therapeutics (SBMT)

United States

Research outputs

Semi-supervised adversarial learning for stain normalization in histopathology images

Cong, C., Liu, S., Di Ieva, A., Pagnucco, M., Berkovsky, S. & Song, Y., 21 Sep 2021, *Medical Image Computing and Computer Assisted Intervention - MICCAI 2021: 24th International Conference. Proceedings, Part VIII*. de Bruijne, M., Cattin, P. C., Cotin, S., Padoy, N., Speidel, S., Zheng, Y. & Essert, C. (eds.). Switzerland: Springer, Springer Nature, p. 580-591 12 p. (Lecture Notes in Computer Science; vol. 12908).

Application of deep learning for automatic segmentation of brain tumors on magnetic resonance imaging: a heuristic approach in the clinical scenario

Di Ieva, A., Russo, C., Liu, S., Jian, A., Bai, M. Y., Qian, Y. & Magnussen, J. S., Aug 2021, In: *Neuroradiology*. 63, 8, p. 1253-1262 10 p.

Brain Volumetric and Fractal Analysis of Synthetic MRI: a comparative study with conventional 3D T1-weighted images

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Assessment of eye-tracking scanpath outliers using fractal geometry

Newport, R., Russo, C., Suman, A. A. & Di Ieva, A., Jul 2021, In: *Heliyon*. 7, 7, p. 1-10 10 p., e07616.

Machine learning for the prediction of molecular markers in glioma on magnetic resonance imaging: a systematic review and meta-analysis

Jian, A., Jang, K., Manuguerra, M., Liu, S., Magnussen, J. & Di Ieva, A., 15 Jun 2021, In: *Neurosurgery*. 89, 1, p. 31-44 14 p., nyab10.

The Royal Australasian College of Surgeons John Mitchell Crouch Fellowship: a neurosurgical perspective

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Texture enhanced generative adversarial network for stain normalisation in histopathology images

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Impact of spherical coordinates transformation pre-processing in Deep Convolution Neural Networks for brain tumor segmentation and survival prediction

Russo, C., Liu, S. & Di Ieva, A., Mar 2021, *Brainlesion: glioma, multiple sclerosis, stroke and traumatic brain injuries: 6th International Workshop, BrainLes 2020 held in conjunction with MICCAI 2020. Revised Selected Papers, Part I*. Crimi, A. & Bakas, S. (eds.). Switzerland: Springer, Springer Nature, p. 295-306 12 p. (Lecture Notes in Computer Science; vol. 12658).

Deep learning methodology for differentiating glioma recurrence from radiation necrosis using multimodal magnetic resonance imaging: algorithm development and validation

Gao, Y., Xiao, X., Han, B., Li, G., Ning, X., Wang, D., Cai, W., Kikinis, R., Berkovsky, S., Di Ieva, A., Zhang, L., Ji, N. & Liu, S., 17 Nov 2020, In: *JMIR Medical Informatics*. 8, 11, p. 1-15 15 p., e19805.

In Reply to the Letter to the Editor regarding "Delayed contralateral trigeminal neuralgia after microvascular decompression and postoperative change in venous outflow"

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Cerebral microvascular dysfunction and clinical considerations of systemic arterial hypertension

Kim, J., Mobbs, R. & Di Ieva, A., 7 Sep 2020, In: *Hypertension Journal*. 6, 3, p. 117-124 8 p.

Delayed contralateral trigeminal neuralgia after microvascular decompression and postoperative changes in venous outflow

Eibach, S., Steinfort, B. & Di Ieva, A., 1 Aug 2020, In: *World Neurosurgery*. 140, p. 107-108 2 p.

Radiomics in gliomas: clinical implications of computational modeling and fractal-based analysis

Jang, K., Russo, C. & Di Ieva, A., 1 Jul 2020, In: *Neuroradiology*. 62, 7, p. 771-790 20 p.

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Paulus of Aegina and the historical origins of spine surgery

Jang, K., Rosenfeld, J. V. & Di Ieva, A., 1 Jan 2020, In: *World Neurosurgery*. 133, p. 291-301 11 p.

Magnetic resonance spectroscopic assessment of isocitrate dehydrogenase status in gliomas: the new frontiers of spectrobiopsy in neurodiagnostics

Di Ieva, A., Magnussen, J. S., McIntosh, J., Mulcahy, M. J., Pardey, M. & Choi, C., Jan 2020, In: *World Neurosurgery*. 133, p. e421-e427 7 p.

Dynamics of forest fragmentation and connectivity using particle and fractal analysis

Andronache, I., Marin, M., Fischer, R., Ahammer, H., Radulovic, M., Ciobotaru, A-M., Jelinek, H. F., Di Ieva, A., Pintilii, R. D., Drăghici, C-C., Herman, G. V., Nicula, A. S., Simion, A-G., Loghin, I-V., Diaconu, D-C. & Peptenatu, D., 1 Dec 2019, In: *Scientific Reports*. 9, 1, p. 1-9 9 p., 12228.

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Petrujković, K., Milošević, N., Rajković, N., Stanislavljević, D., Gavrilović, S., Dželebdžić, D., Ilić, R., Di Ieva, A. & Maksimović, R., 1 Oct 2019, In: *European Journal of Radiology*. 119, p. 1-8 8 p., 108634.

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Letter to the Editor Regarding "The Exoscope in Neurosurgery: An Innovative Point of View. A Systematic Review of the Technical, Surgical, and Educational Aspects"

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Compendio di biologia per infanti

Di Ieva, A., 21 Dec 2018, Rome: Aracne Editrice. 160 p. (Vita: Origine & Evoluzione)

Preface

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Box-counting method in quantitative analysis of images of the brain

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Fathalla, H., Di Ieva, A., Lee, J., Anderson, J., Jing, R., Solariski, M. & Cusimano, M. D., Apr 2017, In: *Neurosurgical Review*. 40, 2, p. 309-318 10 p.

Overweight, obesity and height as risk factors for meningioma, glioma, pituitary adenoma and nerve sheath tumor: a large population-based prospective cohort study

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Diagnostic Value of Fractal Analysis for the Differentiation of Brain Tumors Using 3-Tesla Magnetic Resonance Susceptibility-Weighted Imaging

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Arginine vasopressin (AVP): a review of its historical perspectives, current research and multifunctional role in the hypothalamo-hypophysial system

Rotondo, F., Butz, H., Syro, L. V., Yousef, G. M., Di Ieva, A., Restrepo, L. M., Quintanar-Stephano, A., Berczi, I. & Kovacs, K., 1 Aug 2016, In: *Pituitary*. 19, 4, p. 345-355 11 p.

Current applications and future perspectives of the use of 3D printing in anatomical training and neurosurgery

Baskaran, V., Štrkalj, G., Štrkalj, M. & Di Ieva, A., 24 Jun 2016, In: *Frontiers in Neuroanatomy*. 10, p. 1-7 7 p., 69.

Biomarkers of pituitary carcinomas

Sav, A., Rotondo, F., Syro, L. V., Di Ieva, A., Cusimano, M. D. & Kovacs, K., 3 May 2016, In: *Expert Review of Endocrinology and Metabolism*. 11, 3, p. 253-261 9 p.

Computational fractal-based analysis of brain tumor microvascular networks

Di Ieva, A. & Al-Kadi, O. S., 2016, *The Fractal geometry of the brain*. Di Ieva, A. (ed.). New York: Springer, Springer Nature, p. 393-411 19 p. (Springer Series in Computational Neuroscience).

Computational fractal-based analysis of MR susceptibility-weighted imaging (SWI) in neuro-oncology and neurotraumatology

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Fractal analysis in clinical neurosciences: an overview

Di Ieva, A., 2016, *The Fractal geometry of the brain*. Di Ieva, A. (ed.). New York: Springer, Springer Nature, p. 189-198 10 p. (Springer Series in Computational Neuroscience).

Fractal analysis in neurological diseases

Esteban, F. J., Díaz-Beltrán, L. & Di Ieva, A., 2016, *The Fractal geometry of the brain*. Di Ieva, A. (ed.). New York: Springer, Springer Nature, p. 199-211 13 p. (Springer Series in Computational Neuroscience).

Fractal-based analysis of arteriovenous malformations (AVMs)

Di Ieva, A. & Reishofer, G., 2016, *The Fractal geometry of the brain*. Di Ieva, A. (ed.). New York: Springer, Springer Nature, p. 279-293 15 p. (Springer Series in Computational Neuroscience).

Fractal geometry meets computational intelligence: future perspectives

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Fractals in neuroanatomy and basic neurosciences: an overview

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Fractals in neuroimaging

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Handbook of skull base surgery

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Histological fractal-based classification of brain tumors

Al-Kadi, O. S. & Di Ieva, A., 2016, *The Fractal geometry of the brain*. Di Ieva, A. (ed.). New York: Springer, Springer Nature, p. 371-391 21 p. (Springer Series in Computational Neuroscience).

The Fractal geometry of the brain

Di Ieva, A. (ed.), 2016, New York: Springer, Springer Nature. 585 p. (Springer Series in Computational Neuroscience)

The Fractal geometry of the brain: an overview

Di Ieva, A., 2016, *The Fractal geometry of the brain*. Di Ieva, A. (ed.). New York: Springer, Springer Nature, p. 3-12 10 p. (Springer Series in Computational Neuroscience).

Magnetic resonance susceptibility weighted imaging in neurosurgery: current applications and future perspectives

Di Ieva, A., Lam, T., Alcaide-Leon, P., Bharatha, A., Montanera, W. & Cusimano, M. D., 1 Dec 2015, In: *Journal of Neurosurgery*. 123, 6, p. 1463-1475 13 p.

Pituitary adenoma and the chemokine network: a systemic view

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Diagnostic and prognostic biomarkers of a sellar melanocytic tumor mimicking pituitary adenoma: case report and literature review

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Human kallikrein 10 expression in surgically removed human pituitary corticotroph adenomas: an immunohistochemical study

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Osteomalacia-inducing tumors of the brain: a case report, review and a hypothesis

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Progress in the diagnosis and classification of pituitary adenomas

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Computational analyses of arteriovenous malformations in neuroimaging

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Human kallikrein 10 in surgically removed human pituitary adenomas

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Letter to the Editor

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The comprehensive AOCMF classification: skull base and cranial vault fractures - Level 2 and 3 tutorial

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A journey into the technical evolution of neuroendoscopy

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The comprehensive AOCMF classification system: radiological issues and systematic approach

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Aggressive pituitary adenomas-diagnosis and emerging treatments

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Prizes**Aesculap EANS (European Association of Neurosurgical Societies) Laboratory Research Prize**

Di Ieva, Antonio (Recipient), 9 Oct 2011

Award 2011 Editor's Choice Section, Brain Anatomy & Physiology: "Best Paper of the year".

Di Ieva, Antonio (Recipient), 26 Jun 2011

"Beniamino Guidetti" European Prize from the Italian Society of Neurosurgery (SINch)

Di Ieva, Antonio (Recipient), 26 Sep 2014

First Prize for research in neuroscience from the Italian Society of Neurosurgery (SINch)

Di Ieva, Antonio (Recipient), 27 Oct 2010

First Prize for scientific research, International Association of Lions Club
Di Ieva, Antonio (Recipient), 25 May 2005

John Mitchell Crouch Fellowship
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Awards

Projects

NHMRC - PG: Advanced computational fluid dynamic (CFD) technology to predict cerebrovascular aneurysm haemorrhage

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1/01/19 → 31/12/23

An artificial intelligence platform for identifying how the brain perceives complex images

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