

dr IVANO DONES'

CURRICULUM VITAE ET STUDIORUM

Born in Milano on August, 28th, 1958.

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EDUCATION

1977 - Diploma at the Liceo Scientifico "A.Einstein" of Milano.

1986 - Graduated in Medicine and Surgery at the Faculty of Medicine and Surgery of the State University of Milano with a thesis on "The degeneration and necrosis of muscle fibers in human muscular dystrophies. Histologic and immunocytochemical study."

1987 - Became a member of the College of Physicians of the Region of Milano.

1988 - Attended the First European School of Medical Genetics in Sestri Levante - Italy.

1990 - Obtained the post graduate diploma in Neurology at the School of Neurology of the University of Parma - Italy with a thesis on " Clinical and NMR correlations in Huntington's chorea and its rigid variant".

1990 - Attended a Course on Electromyography organized by Amplifon Medical in Milano.

1994 - Attended the Course for Young Neurosurgeons of the Italian Society of Neurosurgery held in Pomezia (Roma) April 1994.

1999 – Obtained the post graduate diploma in Neurosurgery at the School of Neurosurgery of the University of Milano – Italy.

1999 – Invited lecture on the treatment of spasticity at the Hopital notre Dame du Sacre coeur of Beirut (Lebanon).

2000 – attended a 4 years master course of European Association of Neurosurgical Societies (EANS) in neurosurgery.

Mother tongue: Italian

Proficiency knowledge of english.

Advanced knowledge of french.

Basic knowledge of German.
Basic knowledge of dutch.

CAREER

1977 - As a technician attended the Laboratory of Muscular Pathology at the Istituto Neurologico "C.Besta" of Milano.

1979 - Became a consultant for the Midy S.p.A. for research on phosphocreatinine.

1982/3 - Obtained a grant for the study of "Degeneration of Muscle" at the Istituto Neurologico "C.Besta" of Milano.

1983/6 -Became research fellow of the Consiglio Nazionale delle Ricerche at the Neuromuscular Research Centre of the Istituto Neurologico "C.Besta" of Milano.

1986 - Joined the Army at the Dept. of Neuropsychiatry of the Military Hospital of Milano.

1987/8 - Became research fellow of the Consiglio Nazionale delle Ricerche at the Dept. of Biochemistry and Genetics of the Nervous System of the Istituto Neurologico "C.Besta" of Milano.

1989-1990 - Continues the activity at the the Dept. of Biochemistry and Genetics and at the First Division of Clinical Neurology directed by Prof. T. Caraceni at the Istituto Neurologico C. Besta of Milano.

January 1, 1991 - Employed as Senior technician at the Istituto Nazionale Neurologico C.Besta of Milan.

December 13, 1993 -Neurosurgeon at the III Neurosurgical Dept of the Istituto Nazionale Neurologico "C.Besta" of Milano.

Auditor of the Quality control staff of the Istituto Nazionale Neurologico "C.Besta" of Milano.

2006 Quality referee for the Dept Neurosurgery at the Istituto Nazionale Neurologico "C.Besta"

2008 Professional excellence at the III Div. Neurosurgery of the Istituto Nazionale Neurologico "C.Besta"

2011 to NOW: Head of the Unit for surgical treatment of pain and spasticity.

SCIENTIFIC ACTIVITY

Became research assistant at the Istituto Neurologico "C.Besta" of Milano for research on:

1979 - Myopathies due to abnormalities of the lipid metabolism. Application of morphometric analysis to the evaluation of lipid storage in the skeletal muscle fibre.

1979 - Application of morphometric analysis for the quantitative estimation of structural elements of skeletal muscle.

1979 - Morphological study of the neuromuscular junction in myasthenic patients and in those affected by denervation.

1982 - Study of cell membranes in human myopathies.

1982 - Physiopathology of degeneration and necrosis of the muscle fibre.

1982 - Prenatal diagnosis of Duchenne muscular dystrophy.

1982 - Elaboration of a method for the detection of heterozygous carriers of Duchenne.

1983 - Characterization of the evolution of degeneration of muscle fibres.

1984 - The definition of some aspects of muscle fibre degeneration in the dystrophic process.

1985 - Morphological study of muscle biopsy from patients affected by Duchenne muscular dystrophy.

1985 - Pathogenesis of muscle degeneration. Immunocytochemical characterization of humoral and cellular factors and chemical analysis of microelements.

1986 - Study of muscle degeneration in different neuromuscular diseases.

1986 - Clinical and functional study of hereditary and acquired neuromuscular disorders.

1986 - Study of the immunopathogenesis of myasthenia and other autoimmune neuromyopathies.

1988/1989 - Molecular genetics and biology of the hereditary ataxias including DNA banking of the neurological disorders of genetic origin.

1990 - Physiological study of movement in the ataxic patients with different disorders.

1990 - Follow up of patients with Huntington's chorea and hereditary ataxias.

1990-2009 – Director of the Service for the Study and Treatment of Spasticity

1990 – 2009 Pain clinic

2010 Consultant for J&J – Codman for the intrathecal drug therapy devices.

2011 Consultant for Medtronic for neuromodulation in pain.

CULTURAL ACTIVITY

1983 - Member of the Organizing Committee of the International Symposium "Muscular Dystrophy - Facts and Perspectives", Modena, Italy, 3-4 June, 1983.

1987 - Member of the Organizing Secretary of the International workshop on myasthenia gravis: epidemiology and therapeutical strategies", Milano, 30 January, 1987.

1990 - Elected counsellor of the Italian Association for the Ataxic Syndromes.

1992 – Member of the Organizing Committee of the Congresso of the European Stereotactic and functional neurosurgery society (ESSFN) held in Milano.

1993 - Translated from french the handbook of Neurology by: R. Gil - Manuale di Neurologia under the supervision of Prof. T. Caraceni for MASSON Publisher.

1995 - Professor of Neurosurgery at the School for professional nurses of the University of Milan.

1995 - It is part of the Advisory Board of the magazine: Acta Gerontologica - Pavia - Italy.

2000 – Cooperation for the Neurological part of the book by Franco Belli : Qual è takete qual è maluma on the neuropsychological aspects of verbal communication in advertising.

2000 – Member of the advisory board of the ASM (Italian Association for Multiple Sclerosis).

2004 – Professor for the Master in “New technologies applied to Neurosurgery “ of the Politecnico di Milano. – Faculty of Bioengineering

2008 – referee of the Italian Journal of Neurological Sciences

2010 – Elected president of the Italian Chapter of the international Neuromodulation Society.

2012 – MITO – Music and Brain – Mozart and the Tourette syndrome

Dones I: The historical and scientific relationship between music and the brain.

Milano Sept ,11th, 2012

2013 – MITO – Music and Brain

Dones I: Light and music in the brain

Sept 13th, 2013 Milano

2015 He is tutor to Mr Josquin Cheta for the degree in Medicine and Surgery at the State University of Milano with the thesis on “ Surgical therapies for dystonia: use of deep brain stimulation.

2015 – MITO – Music and Brain

Dones I.: Rossini: bellezza, pia ere, depressione

Milano Spet. 14th, 2015.

BIBLIOGRAPHY

1 - BRAMBATI B, FERRARI M, NICOLINI U, CORNELIO F, DANIEL S, **DONES I**:

"Fetoscopy, fetal blood sampling and prenatal diagnosis of Duchenne muscular dystrophy".

In: Muscular Dystrophy Research:advances and new trends.

Excerpta Medica: 255 (1980).

2 - CORNELIO F, **DONES I**, MORA M, DANIEL S:

Le fibre "calcio positive" nelle malattie neuromuscolari. Analisi qualitativa e quantitativa di 150 biopsie.

In: Abstracts of the IX Riunione della Sezione di Neuropatologia della Societa' Italiana di Neurologia :43 (1980).

3 - BRAMBATI B, CORNELIO F, DWORZAK F, **DONES I**:

Calcium positive muscle fibers in fetuses at risk for Duchenne muscular dystrophy.

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4 - **DONES I**, CORNELIO F:

Intracellular calcium accumulation and complement activation in muscle fiber necrosis in Duchenne dystrophy and other human neuromuscular disorders.

Acta Neurol. 4:4, 245-246 (1982).

5 - CORNELIO F, **DONES I**, MORA M, DANIEL S:

Calcium loading and complement activation in muscle fiber necrosis.

In: Abstracts of the Vth International Congress on Neuromuscular Diseases (1982), TU 32.

- 6 - CORNELIO F, DWORZAK F, MORANDI L, MORA M, DANIEL S, **DONES I**:
Istopatologia e studio funzionale della degenerazione necrobiotica della fibra muscolare nelle distrofie muscolari con particolare riguardo alla distrofia di Duchenne.
Gior. Neuropsic. Eta' Evol. 2: 2,115 - 123 (1982).
- 7 - CORNELIO F, **DONES I**, MORA M, DANIEL S:
Mechanisms of muscle fiber necrosis in human neuromuscular diseases.
In: Abstracts of the IXth International Congress of Neuropathology:121 (1982).
- 8 - GORZA L, SARTORE S, **DONES I**, CORNELIO F, SCHIAFFINO S:
A fetal like myosin is expressed in human dystrophic muscle.
Acta Neurol. Suppl. 7: 287-288 (1983).
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Heterogeneous aspects of congenital muscular dystrophy associated to mental retardation.
Acta Neurol Suppl 7: 290-291, (1983).
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Calcium and magnesium content in fetuses at risk and preneurotic Duchenne muscular dystrophy.
Neurology (NY) 34: 11, 1436 - 1440, (1984).
- 11 -CORNELIO F, **DONES I**:
Muscle fiber degeneration and necrosis in muscular dystrophy and other muscle diseases: cytochemical and immunocytochemical data.
Ann Neurol 16: 6, 694-701, (1984).
- 12 -CORNELIO F, **DONES I**:
Muscle fiber degeneration and necrosis in human neuromuscular disorders.
In: Abstracts of the 2nd European Conference of Neuropathology
Warsaw, 20-22 September, (1984), 9.
- 13 -MORANDI L, DWORZAK F, DANIEL S, BLASEVICH F, MARCHI M, **DONES I**, CORNELIO F:
L'agobiopsia muscolare come mezzo diagnostico e di ricerca.
In: Atti del XXIV Congresso Nazionale della Societa' Italiana di Neurologia: 162 (1985).
- 14 -SCHIAFFINO S, **DONES I**, CORNELIO F, SARTORE S:
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Muscle & Nerve 9: 1; 51-58 (1986).

- 15 -**MARAZZI G** , **CLEMENTI E**, **DONES I**, **FUMAGALLI G**:
Cytoskeletal elements at the myasthenic endplate.
VIIth International Conference on Myasthenia Gravis
New York, March 1986 - p 28.
- 16 -**MARAZZI G**, **CLEMENTI E**, **DONES I**, **FUMAGALLI G**:
Vinculin at the neuromuscular junction.
In: Myasthenia Gravis: Biology and Treatment.
Edited by: Daniel B. Drachman
Annals of the New York Academy of Sciences, 1987
Vol. 505: 756 - 758.
- 17 -**DONES I**, **CORNELIO F**, **MARCHI M**, **DANIEL S**:
Characterization of infiltrates in inflammatory myopathies using monoclonal antibodies against lymphocytes surface antigens.
It J Neurol Sci 2: 57, 287 (1986).
- 18 -**CORNELIO F**, **DONES I**, **DWORZAK F**:
Pathological aspects of calcium in muscular dystrophy. Facts and perspectives.
VIth International Congress on Neuromuscular Diseases. 6 -11 July, (1986) Los Angeles USA.
Muscle & Nerve 9 (5S) 146, Suppl 1986.
- 19 -**MARAZZI G**, **CLEMENTI E**, **DONES I**, **FUMAGALLI G**:
Vinculin at the neuromuscular junction in normal and pathologic conditions.
VIth International Congress on Neuromuscular Diseases. 6-11 July, 1986 - Los Angeles, USA.
Muscle & Nerve 9 (5S): 146, suppl 1986.
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- 21 -**COLOMBO R**, **MILZANI A**, **CARRERA P**, **DONES I**:
Use of tetramethylrhodamine-phalloidin in the morphological study of striated skeletal muscle.
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Needle biopsy for muscle diagnosis and research: an Italian Experience.
It J Neurol Sci 8: 337 - 346, (1987).

23 -GELLERA C, ANTONELLI A, **DONES I**, RIMOLDI M, PELUCHETTI D, CORNELIO F, DI DONATO S:

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24 - ANTONELLI A, WEITNAUER L, LEONE M, **DONES I**, CERINO A, DRIESEL AJ, DI DONATO S, PANDOLFO M:

Analisi di linkage in famiglie con atassia di Friedreich.

4th Congresso Nazionale della Federazione Italiana Per lo Studio delle Malattie Ereditarie - Milano 27-29 Settembre 1989: 24.

25 -ZEVIANI M, GELLERA C, PANNACCI M, **DONES I**, DI DONATO S:

Delezioni del DNA mitocondriale umano: analisi genetico- molecolare.

4th Congresso Nazionale della Federazione Italiana per lo Studio delle Malattie Ereditarie - Milano 27 - 29 Settembre, 1989: 22.

26 - PANDOLFO M, ANTONELLI A, CERINO A, **DONES I**, FINOCCHIARO G, WEITNAUER L, DI DONATO S:

Genetic heterogeneity of Friedreich's ataxia in italian families. Results of linkage analysis with three chromosome 9 markers.

American Society of Human Genetics - 40th Annual Meeting - November 11 - 15, 1989 - Baltimore, USA -

American J Human Genetics vol 45, 4 Oct. 1989 suppl. - p A156.

27 -TESIO L, BALDISSERA F, CAVALLARI P, RANZOLIN A, **DONES I**:

Anti-phase coupling between wrist and ankle rotations: a test sensitive to proprioceptive and cerebellar deficits.

Accepted for presentation to: VI International Rehabilitation Medicine Association Congress - XIV National Congress of the spanish Rehabilitation society - Madrid 17-22 June 1990. Abstracts Excerpta Medica Congress Series 927- CL21.42 p 313.

28 -PANDOLFO M, SIRUGO G ,ANTONELLI A, WEITNAUER L, FERRETTI L, LEONE M, **DONES I**, CERINO A, FUJITA R, HANAUER A, MANDEL JL, DI DONATO S:

Friedreich ataxia in italian families: genetic homogeneity and linkage disequilibrium with the marker loci D9S5 and D9S15.

American Journal of Human Genetics: 47:228 - 235, 1990.

29 -PANDOLFO M, ANTONELLI A, WEITNAUER L, **DONES I**, DI DONATO S:

Friedreich's ataxia in italian families: linkage dysequilibrium with tightly linked markers.

J of Neurology; Suppl 1;237, 1990:S70.

30 -GIROTTI F, SAVOIARDO M, OLIVA D, TESTA D, GIOVANNINI P, CARELLA F, GEMINIANI G, FETONI V, GENITRINI S, **DONES I**, CARACENI T:

Variante rigida della corea di Huntington: alterazioni cognitive e correlazioni NMR.

In atti del X Corso di Aggiornamento della Societa' Italiana di Neurologia - Siena Novembre 1990, EG 14.

31 -DIDONATO S, ZEVIANI M, PARATI E, GELLERA C, RIMOLDI M, **DONES I**, GIROTTI F, CARACENI T:

Respiratory chain and mitochondrial DNA (mtDNA) in Skeletal muscles of parkinson's disease patients.

44th Annual Meeting of the American Academy of Neurology San Diego 3-9 may, 1992 - Neurology vol 42, 4:suppl 3- 135S.

32 -**DONES I**, RIMOLDI M, ZEVIANI M, PARATI E, GIOVANNINI P, GIROTTI F, GENITRINI S, DI DONATO S, CARACENI T:

Studio della catena respiratoria e del DNA mitocondriale nel muscolo scheletrico in pazienti affetti da morbo di Parkinson.

XVIII LIMPE - Taormina 21/23 Novembre 1991 - Atti del congresso pp 29 - 35 - 1992.

33 - BROGGI G, **DONES I**, SERVELLO D, BROCK S, GIOVANNINI P:

The treatment of spasticity by intrathecal Baclofen: a preliminary experience.

First International Congress of the International Neuromodulatory Society: 3 - 6 May 1992 ROMA - 59.

34 - BROGGI G, SERVELLO D, GIOVANNINI P and **DONES I**:

Preliminary experience in the treatment of spasticity with intrathecal baclofen.

Second International Congress of Movement Disorders - Munich - Germany, 24 - 26 June, 1992

Movement Disorders: 1992; Suppl 1/1992, vol. 7 - p 161.

35 - BROGGI G, **DONES I**, SERVELLO D, BROCK S, GIOVANNINI P:

Preliminary experience in the treatment of spasticity by intrathecal administration of baclofen.

Third Meeting of the European Neurological Society - Lausanne CH, 27 June , 1 July 1992

Journal of Neurology: 1992; Suppl 2 vol 239, S23.

36 - PANDOLFO M, ANTONELLI A, MINOLETTI F, PICCINELLI A, FINOCCHIARO G, **DONES I**, DI DONATO S:

Clinical and genetic studies in Italian families with hereditary ataxias.

*Invited presentation at the: National Ataxia Foundation Symposium - Boston 19-20 April 1991.

37 - SIRUGO G, COCOZZA S, REDOLFI E, BRICE A, CAVALCANTI F , DE MICHELE G, **DONES I**, FILLA A, KOENIG M, LORENZETTI D, MONTICELLI A, PIANESE L, ROUSSEAU F, CAMPANELLA G, VARRONE S, JL MANDEL, DI DONATO S, PANDOLFO M: Linkage disequilibrium analysis of Friedreich's ataxia in 140 Caucasian families: positioning of the disease locus and evaluation of allelic heterogeneity. Eur. J. Hum. Genet. 1:133-143 (1993).

38 - **DONES I**, SERVELLO D, BROGGI G: The treatment of spasticity with intrathecal baclofen. Canad. J. Neurol.Sci. Suppl. 4 - S219 - 1993 Abstracts of the XV World Congress of Neurology - Sept. 1993 - Vancouver, Canada.

39 - **DONES I** : Baclofen per infusione endorachidea nel trattamento della spasticità: tempo di bilanci. Ricerca in Riabilitazione 2:2:11-13, 1993.

40 - **DONES I**, SERVELLO D and G. BROGGI: The treatment of spasticity with intrathecal baclofen. 1993 Meeting of the European Federation of Neurological societies. Berlin December 8-11, 1993 , abs G2 - 08.

41 - BROGGI G, SERVELLO D, BROCK S, **DONES I**: The treatment of spasticity by intrathecal administration of baclofen: a preliminary personal experience. J Neurosurg Sci 1993; 37:203-208.

42 - **DONES I**, SERVELLO D., MOLTENI F, MARIANI G, BROGGI G: Neurophysiological methods for the static and dynamic evaluation of spasticity in patients before and during intrathecal baclofen. International Neuromodulation Society- INS - Second International Congress June 1-4, 1994 - Goteborg - Sweden.

43 - **DONES I** , SERVELLO D, MOLTENI F, MARIANI G, BROGGI G: The neurophysiological evaluation of spastic patients before and during intrathecal baclofen. IV th Meeting of the European Neurological Society - 25 - 29 June, 1994 - Barcelona - Spain Abstract in: Journal of Neurology - Springer - Suppl 1 to vol 241, 1994 - S97/3.

44 - **DONES I**, SERVELLO D and BROGGI G: The clinical and physiological evaluation of spastic walking patients before and during intrathecal baclofen. 3rd International Congress on Movement Disorders - Orlando , Flo (USA) 7 - 11 November, 1994 - P 519. - Movement Disorders Vol 9, suppl 1 1994, 128.

45 - SERVELLO D, FRANZINI A, **DONES I**, BROGGI G:

Sindrome del tunnel carpale: considerazioni sull'approccio chirurgico in 80 pazienti operati.
Abstracts del XLIII Congresso Nazionale della Società Italiana di Neurochirurgia, Taormina,
16-19 Ottobre 1994:204,1994.

46 - **DONES I**, SERVELLO D, FERRAZZA C, BROGGI G:
Ondansetron as a treatment of intrathecal baclofen overdose: a case report.
Vth Meeting of the European Neurological Society - Monaco, Germania 17 - 21 June 1995. J.
of Neurology suppl 2 vol 242, 6, 1995 p S94.

47 - BROGGI G, FRANZINI A, SERVELLO D, **DONES I**:
Intracranial neurovascular conflicts. Their relevance in the treatment of the functional diseases
of cranial nerves.
Vth Meeting of the European Neurological Society - Monaco, Germania 17 -21 June 1995 J. of
Neurology suppl 2 vol 242, 6, 1995 p S94.

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Neurovascular conflicts resolution in trigeminal and other cranial nerves disorders.
XXIX National Congress of the Italian Neurological Society
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The treatment of severe spasticity with intrathecal baclofen.
XXIX National Congress of the Italian Neurological Society
It J Neurol Sci Suppl 7/1995 p 60

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A neurophysiological method for the evaluation of motor performance in spastic walking pa-
tients
Acta Neurochir Suppl. 64: 1995.

51 - BROGGI G, SCAIOLI V, BROCK S, **DONES I**:
Neurophysiological monitoring of cranial nerves during posterior fossa surgery.
Acta Neurochir Suppl. 64, 1995.

52 - FRANZINI A, SERVELLO D, **DONES I**, BROGGI G:
Carpal tunnel release. What's new.
XXIX National Congress of the Italian Neurological Society
It J Neurol Sci Suppl 7/1995 p 139.

53 - BROGGI G, FRANZINI A, SERVELLO D, **DONES I**:
Sorpresa della chirurgia dell'angolo ponto-cerebellare in casi di patologia funzionale dei nervi
cranici.
Abstracts del XVIV Congresso Nazionale della Società Italiana di Neurochirurgia. S. Margheri-
ta di Pula (CA), 13-16 Settembre 1995: 167,1995.

54 - FRANZINI A, BROGGI G, SERVELLO D, LEOCATA F, **DONES I**:
Disgerminomi: trattamento, prognosi e considerazioni biologiche in 20 casi consecutivi.
Abstracts del XIV Congresso Nazionale della Società Italiana di Neurochirurgia , S. Margherita di Pula (CA), 13-16 Settembre 1995: 167,1995.

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Long term treatment of spasticity with intrathecal baclofen administration.
Abstracts of the 3rd International Congress of the International Neuromodulation Society - March 6-10 1996, Orlando, USA - p 73.

56 - **DONES I**, SERVELLO D, MOLTENI F, MARIANI G, BROGGI G:
A neuophysiological method for the evaluation of motor performance in spastic walking patients.
In : Advances in stereotactic and functional neurosurgery 11. ed by : Meyerson and Ostertag Springer 1996.

57 - FRANZINI A, GALLO LESSERE E, SERVELLO D, **DONES I**, PLUCHINO MG, BROGGI G:
The role of stereotactic aspiration in definitive recovery from brain abscesses.
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Preliminary experience in interactive image guided surgery for intracranial lesions.
Acta Neurochirurgica Vol 138, 5, 1996,618 - Abstracts of the XIIth congress of the European Society for Stereotactic and Functional Neurosurgery Milano 12-15 June 1996.

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Epidural spinal cord stimulation: considerations about the worst and the best indication.
Acta Neurochirurgica Vol 138, 5, 1996, 652 - Abstracts of the XIIth Congress of the European Society for Stereotactic and Functional Neurosurgery Milano 12-15 June 1996.

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A possible pharmacological treatment of baclofen overdose.
Italian J Neurol Sci , 17:179-180, 1996.

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Esperienza preliminare in neurochirurgia della "image assisted surgery".
in: Atti del I Convegno Nazionale "Applicazioni 3D in medicina - Torino 4-6 ottobre 1996.

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La neurostimolazione nella distrofia simpatica riflessa.

Società Italiana di Neurochirurgia - XLV Congresso Nazionale - 2-5 Ottobre 1996 Genova

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64 - **Dones I**:

Le pompe ad infusione di Baclofen intratecale.

Invited speaker al: Corso di Aggiornamento della Società Italiana di Neurologia 6-10 Ottobre 1996 - Ferrara.

65 - Franzini A, Broggi G, Servello D, **Dones I**:

Transillumination as an alternative tool for minimally invasive release of carpal tunnel syndrome.

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Il trattamento della spasticità con baclofen intratecale.

Atti del 6° Congresso Nazionale della Società Italiana dei clinici del dolore.

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Transillumination in minimally invasive surgery for carpal tunnel release.

J Neurosurg 85: 1184 - 1186, 1996.

69 - Broggi G, **Dones I**, Fornari M, Franzini A, Giombini S, Lasio G, Servello D :

Image assisted surgery of brain tumours.

Abstracts of the XI International Congress of Neurological Surgery - Amsterdam 6 -11 July 1997, S110.

70 - Broggi G, Franzini A, Servello D, **Dones I** :

Microvascular decompression in patients with trigeminal neuralgia and multiple sclerosis.

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Valutazione clinico strumentale dei pazienti sottoposti a prove di somministrazione intratecale di farmaci per il trattamento del dolore e della spasticità.
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J Neurology, 245, n 6/7, 1998, 376, ENS VIIIth Congress , Nice 1998

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