


INFORMAZIONI PERSONALI

Giuseppina Sgandurra



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Gender Female | Birth data 15/07/1975 | Nationality Italian

WORK EXPERIENCE

<p>From 2017 till now</p> <p>Employer's name and locality</p>	<p>Junior Researcher full time (RTD-A) (ongoing)</p> <p>IRCCS Fondazione Stella Maris and University of Pisa, Pisa</p>
<p>From 2015 till 2018</p> <p>Employer's name and locality</p>	<p>Principal investigator and Project management</p> <p>IRCCS Fondazione Stella Maris</p> <p>Project Action-Observation Therapy (AOT) and Information and Communications Technologies (ICT) for Home Rehabilitation of Children with Hemiplegia</p>
<p>From 2016 till 2017</p> <p>Employer's name and locality</p>	<p>Project management</p> <p>IRCCS Fondazione Stella Maris, Pisa</p> <p>Project e-Rob: e-Learning per la Robotica Educativa</p>
<p>From 2013 till 2015</p> <p>Employer's name and locality</p>	<p>Project management</p> <p>IRCCS Fondazione Stella Maris, Pisa</p> <p>Project CareToy : A modular smart system for infants' rehabilitation at home based on mechatronic toys</p>
<p>2012</p> <p>Employer's name and locality</p>	<p>Project management</p> <p>IRCCS Fondazione Stella Maris</p> <p>Project MechToy: A new Mechatronic Toy for early diagnosis of atypical development in infants</p>
<p>Other activities</p> <p>2012-2013</p>	<p>Member of Intersocietal Commission SIMFER-SINPIA for the revision of "Guidelines for the rehabilitation of children with Cerebral Palsy"</p>
<p>2018</p>	<p>Advisory Board Member of "Giornale Italiano di Neuropsichiatria dell'Età Evolutiva"</p>
<p>Referee</p>	<ul style="list-style-type: none"> ▪ Developmental Medicine & Child Neurology ▪ Research & Developmental Disabilities ▪ Developmental Neurorehabilitation ▪ BMC Pediatrics ▪ Computers in Human Behaviour ▪ BMJ Open

EDUCATION AND TRAINING

- | | |
|---|---|
| <p>2012
Education or training
organisation's
Qualification awarded</p> | <p>PhD on Innovative Strategies in Biomedical Research cum laude
Scuola Superiore Sant'Anna</p> <p>PhD (16/04/2012, 100/100 cum laude) with thesis: Reorganization of sensori-motor system in brain damage: new insights on plasticity and rehabilitation</p> |
| <p>2004-2008
Education or training
organisation's
Qualification awarded</p> | <p>Specialization on Child Neurology and Psychiatry cum laude
Università di Pisa - IRCCS Fondazione Stella Maris</p> <p>Specialization (27/10/2008, 110/100 cum laude) with thesis on Movement Disorders in childhood: new tools for clinical outcome assessment</p> |
| <p>2002
Education or training
organisation's
Qualification awarded</p> | <p>Degree in Medicine and Surgery cum laude
Università degli Studi di Catania</p> <p>Degree (29/07/2002, 110/110 cum laude) with thesis on Gait analysis of children with Cerebral Palsy: ankle kinematic modification after botulinum toxin A.</p> |

COURSES

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|---------------------|---|
| 3 December 2015 | AHA refresher at Evelina London Children's Hospital, London |
| 16-17 April 2015 | High Specialization course: Guide to clinical studies with medical devices, Bologna |
| 25-26 February 2013 | Course Infant Motor Profile (IMP) at University Medical Center Groningen (UMCG) |
| 15-16 October 2012 | Course Bayley III held by prof. B. Hutchon, Stella Maris (Calambrone, Pisa) |
| 4-8 June 2012 | Course "Meta-Analysis, 2012-B", Cesenatico (FC) |
| 13-14 December 2010 | Course Bayley III at Ospedale Meyer (Firenze) |
| 12 October 2009 | Course BLS-Provider, Ospedale Cisanello, Pisa |
| 20-22 October 2003 | Course on Gait Analysis, Troina (EN) |
| 21-22 June 2002 | Theoretical and Practical Course on Gait Analysis, Troina (EN) |

CERTIFICATIONS

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|------------------|---|
| 6 November 2018 | National Scientific Abilitation (ASN) for Associated Professor |
| 8 September 2007 | Exam and certification of Advanced Training Course on Prechtl's Method on Qualitative Assessment of General Movements |
| 2006 | Exam and certification on "Rater training and calibration for the Assisting Hand Assessment" |
| 23 October 2004 | Exam and certification of Basic Training Course on Prechtl's Method on Qualitative Assessment of General Movements |

FUNDED GRANTS

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|--------|---|
| Funder | Ministry of Health (Italy) |
| Title | CareToy: a smart System for early home-based intervention in infants at high risk for Cerebral Palsy. |

Starting year (duration) 2016 (36 months)
Role Clinical Project Manager
Funds (euro) 450k

Funder **TIM Foundation (Italy)**

Title e-Rob: e-Learning per la Robotica Educativa
Starting year (duration) 2016 (24 months)
Role Clinical Project Manager
Funds (euro) 150k

Funder **Ministry of Health (Italy)**

Title Action-Observation Therapy (AOT) and Information and Communications Technologies (ICT) for Home Rehabilitation of Children with Hemiplegia
Starting year (duration) 2014 (36 mesi)
Role Principal Investigator
Funds (euro) 278k

Funder **European Commission (Europe)**

Title CareToy: A Modular Smart System for Infants' Rehabilitation At Home based on Mechatronic Toys
Starting year (duration) 2011 (36 mesi)
Role Clinical Project Manager
Funds (euro) 2300k

Funder **Fondation Motrice (France)**

Title Contribution to a PACE Approach to Cerebral Palsy: New Testing and Conceptual Tools
Starting year (duration) 2011 (12 months)
Role Collaborator
Funds (euro) 160k

Funder **Tuscan Region (Italy)**

Title MechTOY: a new Mechatronic TOY for early diagnosis of atypical development in infants
Starting year (duration) 2010 (24 months)
Role Collaborator
Funds (euro) 400k

Funder **Cassa di Risparmio di Livorno (Italia)**

Title Development of a biomechatronic gym as a clinical and research instrument for the assessment of hand function
Starting year (duration) 2009 (12 mesi)
Role Collaboratore
Funds (euro) 7k

INVITED SPEAKER

Conference **European Academy of Childhood Disability (EACD)**

Locality and date Copenhagen, 27-30 May 2015
Title Workshop "Interactive technology for home-based training of infants": CareToy in preterm infants: Clinical results of pilot study

Conference **Mirror neuron system: new strategies for the rehabilitation of movement disorder and of relationship in children**

Locality and date Milano, 12-13 April 2013
Title Application of neuroimaging for the research of mirror neurons on rehabilitation

- Conference** **International Conference on Cerebral Palsy and other Childhood-onset Disabilities (ICPC)**
Locality and date Pisa, 10-13 October 2012
Title Evidence of mirror neuron activity in brain damaged children
- Course** **Early intervention in neurodevelopmental disabilities: from translational research to intervention models**
Locality and date Pisa, 3-4 November 2011
Title Application of neuroimaging for the research of mirror neurons on rehabilitation
- Congress** **National Congress of Italian Society on Neurorehabilitation (SIRN) – Update on the neuromotor rehabilitation of upper limb in children (SINPIA-SIRN)**
Locality and date Verona, 5-7 May 2011
Title Action-Observation
- Congress** **The trasferibility of the results form the experimental research to clinical practise. New perspectives for the rehabilitation of manual activities in hemiplegic children**
Locality and date Reggio Emilia, 9-10 December 2010
Title Cerebral Mirroring: Description of the experiment
- Course** **Theoretical and Practical course on manual funtion and on intervention of hemiplegic children**
Locality and date Reggio Calabria, Centro Giovanni Paolo II, 8 May 2010
Title Description of hemiplegia and clinical cases
- Course** **MD-CRS a new tool for the evaluation of movement disorder in childhood**
Locality and date Calambrone (Pisa), 27 February 2010
Title Description of clinical cases
- Congress** **Magnetic Resonanze in Developmental Neuroscience**
Locality and date Calambrone (Pisa), 20-21 November 2009
Title The sensori-motor system and the mirror neuron system
- Internazionale Symposium** **Treatment of paretic hand in childhood: new approaches**
Locality and date Calambrone (Pisa), 2-3 October 2009
Title Biomechatronic Gym: a new tool for studying infants' grasping development
- Intersocietal Congress** **The new frontiers of rehabilitation between research and ethics**
SINPIA-SIMFER
Locality and date Ercolano (Napoli), 29-30 May 2009
Title Development of a Biomechatronic Gym as a clinical and research tool for the study of typical and atypical development of manual function
- Conference** **Drugs in rehabilitation**
Locality and date Lido di Camaiore (Lucca), 24 October 2006
Title Drugs for childhood movement disorders

**ATTENDANCE IN
CONGRESSES AND
SEMINARS**

Participation to about 15 national and international courses mainly focused on the writing of grants and on the childhood rehabilitation

Participation with oral communications to 5 European Academy of Childhood Disability (EACD) (Roma, Amsterdam, Tiblisi, Vilnius, Stockholm) and on American Academy of Cerebral Palsy (AACPD, Cincinnati)

Partecipation to about 30 national congresses on neurodevelopmental disorders

BIBLIOMETRIC ATA (SCOPUS al 23/11/2018)

Total number of publications	50 (4 book chapters, 39 paper <i>in extenso</i> in international journals and 7 paper <i>in extenso</i> in national journals)
H Index	12
Totale Citazioni	437

BOOKS

- 1 Cioni, G., Inguaggiato, E., **Sgandurra, G.** *Plasticità cerebrale tra geni ed ambiente: implicazioni per l'intervento precoce nei disturbi del neurosviluppo* in Neuropsicologia dello sviluppo a cura di Stefano Vicari e Maria Cristina Caselli IL MULINO, 2017; 14-27
- 2 Cioni, G., **Sgandurra, G.** *Normal psychomotor development* in Handbook of Clinical Neurology on Pediatric Neurology di O.Dulac, H. Samat e M. Lassonde (Eds)- Elsevier, 2013; 111:3-15.
- 3 **Sgandurra, G.**, Cioni, G. *Clinical and instrumental assessment of upper limb in cerebral palsy.* Mariani Foundation's paediatric neurology series, 2011.
- 4 Cioni, G., **Sgandurra, G.**, Muzzini, S., Paolicelli, P.B. Ferrari, A. *Forms of Hemiplegia Capitolo 16* del libro "The Spastic Forms of Cerebral Palsy. A Guide to the Assessment of Adaptive Functions" di A.Ferrari e G. Cioni, Springer, 2009.

PUBLICATION (PEER- REVIEWED)

- 1 **Sgandurra G**, Beani E, Inguaggiato E, Lorentzen J, Nielsen JB, Cioni G. *Effects on Parental Stress of Early Home-Based Care Toy Intervention in Low-Risk Preterm Infants.* Neural Plast. 2019 Jan 22;2019:7517351. doi: 10.1155/2019/7517351. eCollection 2019.
- 2 Beani E, Maselli M, Sicola E, Perazza S, Cecchi F, Dario P, Braito I, Boyd R, Cioni G, **Sgandurra G.** Actigraph assessment for measuring upper limb activity in unilateral cerebral palsy. J Neuroeng Rehabil. 2019 Feb 22;16(1):30. doi: 10.1186/s12984-019-0499-7.
- 3 Ek L, Eliasson AC, Sicola E, Sjöstrand L, Guzzetta A, **Sgandurra G**, Cioni G, Krumlinde-Sundholm L. *Hand Assessment for Infants: normative reference values.* Dev Med Child Neurol. 2019 Feb 4. doi: 10.1111/dmcn.14163.
- 4 Sakzewski L, Sicola E, Verhage CH, **Sgandurra G**, Eliasson AC. *Development of hand function during the first year of life in children with unilateral cerebral palsy.* Dev Med Child Neurol. 2018 Nov 8. doi: 10.1111/dmcn.14091.
- 5 Braito I, Maselli M, **Sgandurra G**, Inguaggiato E, Beani E, Cecchi F, Cioni G, Boyd R. *Assessment of upper limb use in children with typical development and neurodevelopmental disorders by inertial sensors: a systematic review.* J Neuroeng Rehabil. 2018 Nov 6;15(1):94. doi: 10.1186/s12984-018-0447-y. Review.
- 6 **Sgandurra G**, Beani E, Giampietri M, Rizzi R, Cioni G; CareToy-R Consortium. *Early intervention at home in infants with congenital brain lesion with CareToy revised: a RCT protocol.* BMC Pediatr. 2018 Sep 5;18(1):295. doi: 10.1186/s12887-018-1264-y.

- 7 Rihar A, Mihelj M, Pašič J, **Sgandurra G**, Cecchi F, Cioni G, Dario P, Munih M. *Infant posture and movement analysis using a sensor-supported gym with toys*. Med Biol Eng Comput. 2018 Sep 4. doi: 10.1007/s11517-018-1890-4.
- 8 **Sgandurra G**, Biagi L, Fogassi L, Sicola E, Ferrari A, Guzzetta A, Tosetti M, Cioni G. Reorganization of the Action Observation Network and Sensory-Motor System in Children with Unilateral Cerebral Palsy: An fMRI Study. Neural Plast. 2018 Jul 25;2018:6950547. doi: 10.1155/2018/6950547.
- 9 Simon-Martinez C, Mailloux L, Ortibus E, Fehrenbach A, **Sgandurra G**, Cioni G, Desloovere K, Wenderoth N, Demaerel P, Sunaert S, Molenaers G, Feys H, Klingels K. *Combining constraint-induced movement therapy and action-observation training in children with unilateral cerebral palsy: a randomized controlled trial*. BMC Pediatr. 2018 Jul 31;18(1):250. doi: 10.1186/s12887-018-1228-2.
- 10 Bargagna S, Castro E, Cecchi F, Cioni G, Dario P, Dell'Omo M, Di Lieto MC, Inguaggiato E, Martinelli A, Pecini C, **Sgandurra G**. *Educational Robotics in Down Syndrome: A feasibility study*. Technology, Knowledge and Learning. 16 June 2018, 1-9
- 11 **Sgandurra G**, Cecchi F, Beani E, Mannari I, Maselli M, Falotico FP, Inguaggiato E, Perazza S, Sicola E, Feys H, Klingels K, Ferrari A, Dario P, Boyd RN, Cioni G. *Tele-UPCAT: study protocol of a randomised controlled trial of a home-based Tele-monitored UPPER limb Children Action observation Training for participants with unilateral cerebral palsy*. BMJ Open. 2018 May 14;8(5):e017819. doi: 10.1136/bmjopen-2017-017819.
- 12 Krumlinde-Sundholm L, Ek L, Sicola E, Sjöstrand L, Guzzetta A, **Sgandurra G**, Cioni G, Eliasson AC. *Development of the Hand Assessment for Infants: evidence of internal scale validity*. Dev Med Child Neurol. 2017 Dec;59(12):1276-1283. doi: 10.1111/dmcn.13585.
- 13 **Sgandurra G**, Olivieri I, Casarano M, DI Pietro R, Menici V, Velli C, Sini F, Lucibello S, Romeo DM, Cioni G, Battini R. *Inter and intra-rater reliability and minimal detectable difference of Movement Disorder-Childhood Rating Scale*. Eur J Phys Rehabil Med. 2018 Feb;54(1):48-57. doi: 10.23736/S1973-9087.17.04661-5.
- 14 **Sgandurra G**, Lorentzen J, Inguaggiato E, Bartalena L, Beani E, Cecchi F, Dario P, Giampietri M, Greisen G, Herskind A, Nielsen JB, Rossi G, Cioni G; CareToy Consortium. *A randomized clinical trial in preterm infants on the effects of a home-based early intervention with the 'CareToy System'*. PLoS One. 2017 Mar 22;12(3):e0173521. doi: 10.1371/journal.pone.0173521.
- 15 Inguaggiato, E., **Sgandurra, G.**, Cioni, G. *Brain plasticity and early development implications for early intervention in neurodevelopmental disorders*. Neuropsychiatrie de l'enfance et de l'adolescence, 2017, 65(5): 299-306.
- 16 Di Lieto, M.C., Inguaggiato, E., Castro, E., Cecchi, F., Cioni, G., Dell'Omo, M., Laschi, C., Pecini, C., Santerini, G., **Sgandurra, G.**, Dario, P. *Educational robotics intervention on executive functions in preschool children: a pilot study*. Computers in Human Behaviour, 2017, 71:16-23.
- 17 Castelli, E., Fazzi, E., Alboresi, S., Armando, M., Battisti, N., Carboni, E., Cazzagon, M., Cersosimo, A., Dalla Torre, L., Ferrari, A., Gambini, G., Maltoni, P., Marucco, A., Marconi, R., Morelli, D., Pignatelli, S., Rubini, G., Trevisi, E., Turconi, A.C., Trabacca, A., Cioni, G., Folegani, P., Giannini, M.T., Laparian, A., Landi, N., Mangione, D., Marcelli, M., Militerni, R., Pagliano, E., Paolicelli, P.B., Sales, B., Scuccimarra, G., **Sgandurra, G.**, Tometta, L. *Recommendations for the rehabilitation of children with cerebral palsy*. Eur J Phys Rehabil Med, 2016, 52 (5):691-703.
- 18 Rihar, A.*, **Sgandurra, G.***, Beani, E., Cecchi, F., Pašič, J., Cioni, G., Dario, P., Mihelj, M., Munih, M. *CareToy: Stimulation and Assessment of Preterm Infant's Activity Using a Novel Sensorized System*. Ann Biomed Eng, 2016 Jun 10 [Epub ahead of print] * co-first authors.
- 19 Bieber, E., Smits-Engelsman, B.C., **Sgandurra, G.**, Cioni, G., Feys, H., Guzzetta, A., Klingels, K. *Manual function outcome measures in children with developmental coordination disorder (DCD): Systematic review*. Res Dev Disabil, 2016, 55:114-131. Review.
- 20 Cioni, G., Inguaggiato, E., **Sgandurra, G.** *Early intervention in neurodevelopmental disorders: underlying neural mechanism*. Dev Med Child Neurol, 2016, 58 (Suppl 4):61-66. Review

- 21 Cecchi, F., **Sgandurra, G.**, Mihelj, M., Mici, L., Zhang, J., Muni, M., Cioni, G., Laschi, C., Dario, P. *CareToy: an intelligent baby gym for intervention at home in infants at risk for Neurodevelopmental Disorders*. IEEE Robotics & Automation Magazine. 2016, In press.
- 22 **Sgandurra, G.**, Bartalena, L., Cecchi, F., Cioni, G., Giampietri, M., Greisen, G., Herskind, A., Inguaggiato, E., Lorentzen, J., Nielsen, J.B., Orlando, M., Dario, P. CareToy Consortium. *A pilot study on early home-based intervention through an intelligent baby gym (CareToy) in preterm infants*. Res Dev Disabil, 2016,53-54:32-42.
- 23 Biagi, L., Cioni, G., Fogassi, L., Guzzetta, A., **Sgandurra, G.**, Tosetti, M. *Action observation network in childhood: a comparative fMRI study with adults*. Dev Sci, 2016, 19(6):1075-1086.
- 24 Passetti, G., Cecchi, F., Baldoli, I., **Sgandurra, G.**, Beani, E., Cioni, G., Laschi, C., Dario, P. *Sensorized toys for measuring manipulation capabilities of infants at home*. Conf Proc IEEE Eng Med Biol Soc. 2015:7390-7393.
- 25 Pratesi, A., Cecchi, F., Beani, E., **Sgandurra, G.**, Cioni, G., Laschi, C., Dario, P. *A new system for quantitative evaluation of infant gaze capabilities in a wide visual field*. Biomed Eng Online, 2015, 14:83.
- 26 Battini, R., Olivieri, I., Di Pietro, R., Casarano, M., **Sgandurra, G.**, Romeo, D.M., Cioni, G. *Movement Disorder-Childhood Rating Scale: A Sensitive Tool to Evaluate Movement Disorders*. Pediatr Neurol. 2015, 53(1):73-77.
- 27 **Sgandurra, G.**, Bartalena, L., Cioni, G., Greisen, G., Herskind, A., Inguaggiato, E., Lorentzen, J., Nielsen, J.B., Sicola, E. CareToy Consortium. *Home-based, early intervention with mechatronic toys for preterm infants at risk of neurodevelopmental disorders (CARETOY): a RCT protocol*. BMC Pediatr, 2014, 14:268.
- 28 Battini, R., Casarano, M., **Sgandurra, G.**, Olivieri, I., Di Pietro, R., Romeo, D.M., Mercuri, E., Cioni, G. *Responsiveness of the MD-childhood rating scale in dyskinetic cerebral palsy patients undergoing anticholinergic treatment*. Eur J Paediatr Neurol. 2014, 18(6):698-703.
- 29 Ferrari, A., Maoret, A.R., Muzzini, S., Alboresi, S., Lombardi, F., **Sgandurra, G.**, Paolicelli, P.B., Sicola, E., Cioni, G. *A randomized trial of upper limb botulinum toxin versus placebo injection, combined with physiotherapy, in children with hemiplegia*. Res Dev Disabil. 2014, 35(10):2505-2513.
- 30 Inguaggiato, E., **Sgandurra, G.**, Perazza, S., Guzzetta, A., Cioni, G. *Brain reorganization following intervention in children with congenital hemiplegia: a systematic review*. Neural Plast. 2013:356275. Review.
- 31 **Sgandurra, G.**, Ferrari, A., Cossu, G., Guzzetta, A., Fogassi, L., Cioni, G. *Randomized trial of observation and execution of upper extremity actions versus action alone in children with unilateral cerebral palsy*. Neurorehabil Neural Repair. 2013, 27(9):808-815.
- 32 **Sgandurra, G.**, Cecchi, F., Serio, S.M., Del Maestro, M., Laschi, C., Dario, P., Cioni, G. *Longitudinal Study of Unimanual Actions and Grasping Forces during Infancy*. Infant Behav Dev. 2012, 35(2):205-214.
- 33 Serio, S.M., Cecchi, F., Boldrini, E., Laschi, C., **Sgandurra, G.**, Cioni, G., Dario, P. *Instrumented toys for studying power and precision grasp forces in infants*. Conf Proc IEEE Eng Med Biol Soc. 2011:2017-2020.
- 34 **Sgandurra, G.**, Ferrari, A., Cossu, G., Guzzetta, A., Biagi, L., Tosetti, M., Fogassi, L., Cioni, G. *Upper limb children action-observation training (UP-CAT): a randomised controlled trial in hemiplegic cerebral palsy*. BMC Neurol. 2011, 11:80.
- 35 Cecchi, F., Serio, S.M., Del Maestro, M., Laschi, C., **Sgandurra, G.**, Cioni, G., Dario P. *Design and development of "biomechatronic gym" for early detection of neurological disorders in infants*. Conf Proc IEEE Eng Med Biol Soc. 2010, 1, 3414-3417.
- 36 Battini, R., Guzzetta, A., **Sgandurra, G.**, Di Pietro, R., Petacchi, E., Mercuri, E., Giannini, M.T., Leuzzi, V., Cioni, G. *Scale for evaluation of movement disorders in the first three years of life*. Pediatr Neurol. 2009, 40 (4): 258-264.

- 37 Battini, R., **Sgandurra, G.**, Petacchi, E., Guzzetta, A., Di Pietro, R., Giannini, M.T., Leuzzi, V., Mercuri, E., Cioni, G. *Movement disorder-childhood rating scale: reliability and validità*. *Pediatr Neurol*. 2008, 39 (4): 259-265.
- 38 Bianchi, M.C., **Sgandurra, G.**, Tosetti, M., Battini, R., Cioni, G. *Brain Magnetic Resonance in the Diagnostic Evaluation of Mithochondrial Encephalopathies*. *Biosci Report*, 2007, 27:69-85.
- 39 Coluccini, M., Maini, E.S., Martelloni, C., **Sgandurra, G.**, Cioni, G. *Kinematic characterization of functional reach to grasp in normal and in motor disabled children*. *Gait & Posture*, 2007, 25:493-501.

 NATIONAL PAPERS

- 1 Inguaggiato, E., **Sgandurra, G.**, Beani, E., Piccardo, G., Giampietri, M., Bartalena, L., Cioni, G. *CareToy project for early intervention in infants born preterm: preliminary findings on parent-infant interaction*. *Giornale di Neuropsichiatria dell'Età Evolutiva*, 2015,35:147-154.
- 2 **Sgandurra, G.**, Burzi, V., Parente, E., Di Gioia, C., Ferrari, A., Cioni, G. *UP-CAT: Disegno di uno studio sull'efficacia dell'osservazione dell'azione nella riabilitazione del bambino con emiplegia*. *Giornale di Medicina Fisica e Riabilitazione* 2011, 25(2/3):78-84.
- 3 **Sgandurra, G.**, Cioni, G. *Medicina alternativa e complementare nelle disabilità dello sviluppo: definizione e metodiche di applicazione*. *Giornale di Neuropsichiatria dell'età evolutiva*, 2011, 31(1).
- 4 **Sgandurra, G.**, Guzzetta, A., Cioni, G. *Disturbi motori e disturbi neuropsicologici: modelli fisiopatologici e strategie di trattamento*. *Giornale di Neuropsichiatria dell' Età Evolutiva*, 2007, 27:264-277.
- 5 Cioni, G., **Sgandurra, G.** *La ricerca in riabilitazione: un ponte tra università, ospedale e territorio*. *Giornale di Neuropsichiatria dell' Età Evolutiva*, 2007, 27:473-485.
- 6 Battini, R., Coluccini, M., **Sgandurra, G.**, Petacchi, E., Di Pietro, R., Cioni, G. *Valutazione e trattamento dei disturbi del movimento nel bambino*. *Giornale di Neuropsichiatria dell' Età Evolutiva*, 2006, 26:322-331.
- 7 Mazzone, D., Mazzone, L., **Sgandurra, G.**, Mugno, D. *Metodi di valutazione delle Paralisi Cerebrali Infantili e possibilità di trattamento con tossina botulinica tipo A (BTX-A)*. *Rivista Pediatrica Siciliana*, 2002, 57 (3).

 PUBLISHED ABSTRACTS

- 1 **Sgandurra G**, Biagi L, Guzzetta A, Fogassi L, Ferrari A, Cioni G, Tosetti M. Reorganization of action observation network in children with unilateral cerebral palsy: an fMRI study. *Dev Med Child Neurol*, 2018, 60 (suppl. 3): 16-17
- 2 Ek L, Eliasson A.C., Sicola E, **Sgandurra G**, Cioni G, Krumlind-Sundholm. *Norm reference values of the hand assessment for infants (HAI), and their usefulness*. *Dev Med Child Neurol*, 2018, 60 (suppl. 3): 64
- 3 Bieber E, Smits-Engelsman, **Sgandurra G**, Feys H, Guzzetta A, Klingels, K. A new protocol for action observation and imitation abilities in children with and without developmental coordination disorder (DCD): a pilot study. *Dev Med Child Neurol*, 2018, 60 (Suppl. 2): 4
- 4 Battini R, **Sgandurra G**, Olivieri I, Menici V, Cioni G, MD-CRS Team. Responsiveness of the Movement Disorder-Childhood Rating Scale in children with movement disorders undergoing oral therapy with tetrabenazine. *Dev Med Child Neurol*, 2018, 60 (Suppl. 2): 10
- 5 **Sgandurra G**, Inguaggiato E, Beani E, Giampietri M, Ghirri P, Cioni G. Home-based early intervention in infants at high risk for cerebral palsy: a protocol of a randomised controlled trial study with CareToy. *Dev Med Child Neurol*, 2018, 60 (Suppl. 2): 20-21
- 6 **Sgandurra G**, Beani E, Cecchi F, Mannari I, Menici V Cioni G. Feasibility and usability of

- technological upper limb children action observation training (Tele-UPCAT) system for action observation training in children with unilateral cerebral palsy. *Dev Med Child Neurol*, 2018, 60 (Suppl. 2): 55
- 7 **Sgandurra G**, Buchignani B, Iacono O, Inguaggiato E, Beani E, Sicola E, Feys H, Cioni G. Action observation for upper and lower limb rehabilitation in hemiplegia: as systematic review. *Dev Med Child Neurol*, 2018, 60 (Suppl. 1): 15
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Pisa, 9 May 2019

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