



CURRICULUM

EUROPEAN CURRICULUM VITAE FORMAT



PERSONAL INFORMATION

Name	MIRKO SCAGNET
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Nationality	Italian
Date of birth	23.03.1978

BACKGROUND

I am chief of the Endoscopic Skull Base Unit at Anna Meyer Children's Hospital of Florence. I operate on every type of brain tumor, but I have a particular interest in skull-base tumors such as craniopharyngiomas and adenoma. With my otolaryngologist colleagues I developed an endonasal skull base program at Meyer. It is my privilege to partner with The Children's Brain Tumor Network (CBTN), which is at the forefront of pediatric genetic research. Here we are working to develop new treatments that one day will help thousands of children with brain tumors. Currently, tissue from every brain tumor we treat is sent to the laboratory for sequencing to detect genetic abnormalities. Tumors that look identical under the microscope may in fact have significant genetic variations, explaining why one tumor may respond well to chemotherapy and radiation, and another may not. Our goal is to personalize the post-operative chemotherapy and radiation regimen by specifically targeting the treatment based on the genetic abnormality. The collaborative spirit at Meyer is remarkable. Working with the basic science and tumor research teams, with access to the most advanced technology, we are now on an exciting precipice, poised for exponential growth in the near future.

WORK EXPERIENCE

- Dates (from – to) March 2014 -present
- Name and address of employer Children's Brain Tumor Network (CBTN)
Philadelphia (PA, USA)
- Type of business or sector International Consortium
<https://cbtn.org/>
- Occupation or position held **Member of scientific committee**
<https://cbtn.org/research-partners/mirko-scagnet>

- Dates (from – to) November 2016 -present
- Name and address of employer Anna Meyer Children's Hospital of Florence. Italy
- Type of business or sector Department of Neurosurgery
- Occupation or position held **Chief of Endoscopic Skull Base Unit**

- Dates (from – to) November 2009 -present
- Name and address of employer Anna Meyer Children's Hospital of Florence. Italy
- Type of business or sector Department of Neurosurgery
- Occupation or position held **Neurosurgeon**

- Dates (from – to) January 2006 - December 2008
- Name and address of employer Azienda Ospedaliera Treviglio-Caravaggio.
Ospedale di Calcinato, (BG). Italy
- Type of business or sector Department of Emergency
- Occupation or position held **MD**

EDUCATION AND TRAINING

Date 2018

- Name and type of organisation providing education and training Harvard University
Boston Children's Hospital
Division of Neurosurgery
- Prof. Marc Proctor
- Title of qualification awarded Clinical Observer

Date 2016-2017

- Name and type of organisation providing education and training Université Paris Diderot (Paris. France)
Pr. Philippe Herman, Prof. Piero Nicolai, Prof. Paolo Castelnovo
European Endoscopic Skull Base Surgery Diploma
- Title of qualification awarded Diploma

Date April 2016

- Name and type of organisation providing education and training The Hospital for Sick Children (Toronto. Canada)
Clinical observer. Neurosurgery Unit.
Prof. James T. Rutka
- Title of qualification awarded Clinical Observer

• Date July,13-17 2015

- Name and type of organisation providing education and training INTERNATIONAL SUMMER SCHOOL
Transnasal endoscopic surgery: from sinuses to skull base
- license

Date 2015

- Name and type of organisation providing education and training IRCCS Istituto Scienze neurologiche di Bologna (ISNB)
Department of Neurosurgery. Center for Cranial Base Surgery
Dr. Giorgio Frank
- Title of qualification awarded Clinical Observer
- Date April 2015
- Name and type of organisation providing education and training University of Pittsburgh Medical Center (UPMC)
Department of Neurosurgery. Center for Cranial Base Surgery (USA)
Dr. Paul Gardner
- Title of qualification awarded Clinical Observer
- Date March 2014
- Name and type of organisation providing education and training Children's Hospital of Philadelphia
Department of Neurosurgery. University of Pennsylvania (USA)
Dr. Phillip Storm
- Title of qualification awarded Clinical Observer
- Date 2014 and 2015
- Name and type of organisation providing education and training Hopital Timone Enfants
Chirurgie orthopédique et Pédiatrique. Marseille (France)
Pr. Gérard Bollini
- Title of qualification awarded Clinical Observer
- Date September 2013- December 2013
- Name and type of organisation providing education and training Spedali Civili
Department of Otorhinolaryngology. Brescia. (Italy)
Prof. Piero Nicolai
- Title of qualification awarded Clinical Observer
- Date January 2009 -June 2009
- Name and type of organisation providing education and training Anna Meyer Children's Hospital .Florence. Italy
Department of Neurosurgery
- Title of qualification awarded Clinical Fellow in pediatric Neurosurgery
- Date June 2005 - November 2009

- Name and type of organisation providing education and training University of Brescia, Italy
Spedali Civili, Brescia
Neurosurgical Clinic
- Title of qualification awarded Fellow in Neurosurgery (50/50 cum laude)
- Date 2005
- Name and type of organisation providing education and training University of Brescia, Italy
- Title of qualification awarded Examination for the permission to exercise the medical profession
- Date 2004
- Name and type of organisation providing education and training University of Brescia, Italy
- Title of qualification awarded Diploma of Medical Doctor, with the score of 110/110 cum laude.

**PERSONAL SKILLS
AND COMPETENCES**

*Acquired in the course of life
and career but not necessarily
covered by formal certificates
and diplomas.*

MOTHER TONGUE **ITALIAN**

OTHER LANGUAGES

ENGLISH (DIPLOMA AT ENGLISH SCHOOL OF WEST NEW YORK (NJ), 2002)

- Reading skills GOOD

- Writing skills GOOD
- Verbal skills GOOD

ORGANISATIONAL SKILLS
AND COMPETENCES
*Coordination and
administration of people,
projects and budgets; at
work, in voluntary work (for
example culture and sports)
and at home, etc.*

APRIL 1998- NOVEMBER 2002
VOLUNTARY ACTIVITY -ITALIAN RED CROSS-

NOVEMBER 2018 AND NOVEMBER 2019
NEUROSURGICAL MISSIONS AT **RAFIDIA GOVERNMENTAL HOSPITAL OF
PALESTINIAN MINISTRY OF HEALTH. NABLUS**
COLLABORATION WITH "**PALESTINE CHILDREN'S RELIEF FUND**" (PCRF)
www.pcrf.net



TECHNICAL SKILLS
AND COMPETENCES
*With computers, specific
kinds of equipment,
machinery, etc.*

GOOD USE OF WINDOWS AND MAC
PERFECT USE OF THE STEALTHSTATION™ S8 SURGICAL NAVIGATION SYSTEM
(MEDTRONIC) FOR NEUROSURGICAL ACTIVITY, BOTH OPTICAL AND EM SYSTEM
FOR CRANIAL AND SPINE PROCEDURES.

CLINICAL RESEARCH

Member of the scientific committee of Meyer Children's Hospital of Florence.

Member of the scientific committee of Children's Brain Tumor Network (CBTN).

The Children's Brain Tumor Network is a collaborative, multi-institutional research program dedicated to the study and treatment of childhood brain tumors. The CBTN supports the research of new prognostic biomarkers and therapies for children with pediatric brain tumors. As part of this research effort, the CBTN has developed a network of informatics and data applications which allow researchers from across the world to work together to discover cures. "Innovation through collaboration" is made possible by the CBTN's state-of-the-art biorepository as well as expertise of leaders in the field of biomedicine.

The CBTN consists of 25 primary member institutions including:

1) Children's Hospital of Philadelphia, 2) Seattle Children's, 3) UPMC Children's Hospital of Pittsburgh, 4) Ann & Robert H. Lurie Children's Hospital of Chicago, 5) Benioff Children's Hospital (UCSF), 6) Stanford University/Lucile Packard Children's Hospital, 7) **Meyer Children's Hospital Florence Italy**, 8) Weill Cornell Medicine Pediatric Brain and Spine Center, 9) Children's National Health System, 10) Joseph M. Sanzari Children's Hospital at Hackensack University Medical Center, 11) Johns Hopkins All Children's Hospital 12) University of California Santa Cruz – Treehouse Childhood Cancer Initiative 13) The Beijing Tiantan Hospital Neurosurgery Center (Beijing, China), 14) Genebank (Beijing Genomics Institute – Shenzhen, China), 15) Dayton Children's Hospital, 16) The Hudson Institute of Medical Research (Melbourne, Australia) 17) University of Alabama at Birmingham, and 18) Wake Forest Baptist Medical Center, etc

The operations center of the CBTN is located at Children's Hospital of Philadelphia and integrates genomic and molecular research, biorepository management, and support for the informatics platforms of the CBTN. This infrastructure serves an important role in the CBTN's ability to provide free and open access to brain tumor data to researchers throughout the world.

PUBLICATIONS

1. Spacca B, Scrofani R, Donati PA, Genitori L, Giordano F, Mussa F, Sardi I, Aricò M, Sardo L, Scagnet M, Mura, Sanzo M. The role of endoscopic evidence of accidental findings suspected for ventricular metastatic dissemination in children with new diagnosed medulloblastoma and triventricular obstructive hydrocephalus. *Child's Nerv Syst* 2014; 30: 746 (abstract)
2. Giordano F, Ricci S, Spacca B, Parolin M, Mura R, Sardo L, Scagnet M, Mussa F, Donati PA, Sanzo M, Genitori L. Tethered cord in adulthood: Surgical outcomes of lypomyelomeningocele in fourteen patients. *Child's Nerv Syst* 2013; 29: 1744 (abstract)
3. Sardo L, Giordano F, Mussa F, Spacca B, Sanzo M, Scagnet M, Donati PA, Mura R, Scrofani R e Genitori L. “Sindrome occulta del midollo ancorato? La sezione del filum per via extradurale (serie di 152 pazienti)”. *Surgical Tribune Italia*. Luglio 2013
4. Genitori L, Mortellaro C, Scagnet M, Mussa F, D’Avenia R, Armi P, Giordano F, Spinelli G, Raffaini M, Sanger C. Le malformazioni cranio-facciali in un grande ospedale pediatrico. *Implants. International magazine of Oral Implantology. Dental Tribune International*, pp 36-40, Gennaio 2012
5. Giordano F, Spacca B, Mussa F, Sardo L, Scagnet M, Mura R, Sardi I, Genitori L. Neurosurgical management of subependymal giant cell tumors (SEGTS) in tuberous sclerosis complex (TSC): a series of 25 patients. *Child’s Nervous System* 2010, 26: 1442 (abstract)
6. Spacca B, Giordano F, Sardi I, Sardo L, Scagnet M, Mura R, Mussa F and Genitori L. May neuroendoscopy have a role on posterior fossa medulloblastoma stadiation in children ? *Neurooncology* 2010, 12 (6), p ii 120 (abstract)
7. Giordano F, Scagnet M, Mussa F, Sanger C, Davis L, Genitori L – “Cranial expansion and dynamic remodeling by spring assisted surgery in craniosynostosis”. 37th Annual Congress of the International Society for Pediatric Neurosurgery, Los Angeles, CA, USA, 11-15 October, 2009. *Child’s Nervous System*, 2009;



1. MYB-QKI rearrangements in angiocentric glioma drive tumorigenicity through a tripartite mechanism.

Bandopadhyay P, Ramkissoon LA, Jain P, Bergthold G, Wala J, Zeid R, Schumacher SE, Urbanski L, O'Rourke R, Gibson WJ, Pelton K, Ramkissoon SH, Han HJ, Zhu Y, Choudhari N, Silva A, Boucher K, Henn RE, Kang YJ, Knoff D, Paoletta BR, Gladden-Young A, Varlet P, Pages M, Horowitz PM, Federation A, Malkin H, Tracy AA, Seepo S, Ducar M, Van Hummelen P, Santi M, Buccoliero AM, Scagnet M, Bowers DC, Giannini C, Puget S, Hawkins C, Tabori U, Klekner A, Bogner L, Burger PC, Eberhart C, Rodriguez FJ, Hill DA, Mueller S, Haas-Kogan DA, Phillips JJ, Santagata S, Stiles CD, Bradner JE, Jabado N, Goren A, Grill J, Ligon AH, Goumnerova L, Waanders AJ, Storm PB, Kieran MW, Ligon KL, Beroukhi R, Resnick AC.

Nat Genet. 2016 Mar;48(3):273-82. doi: 10.1038/ng.3500. Epub 2016 Feb 1.

2. Subependymal giant cell astrocytoma: a lesion with activated mTOR pathway and constant expression of glutamine synthetase.

Buccoliero AM, Caporalini C, Giordano F, Mussa F, Scagnet M, Moscardi S, Baroni G, Genitori L, Taddei GL.

Clin Neuropathol. 2016 Sep-Oct;35(5):295-301. doi: 10.5414/NP300936.

3. A Diagnostic Pitfall: Atypical Teratoid Rhabdoid tumor versus dedifferentiated/poorly differentiated chordoma: analysis of a mono-institutional series.

Buccoliero AM, Caporalini C, Scagnet M, Baroni G, Moscardi S, Mussa F, Giordano F and Genitori L.

Appl Immunohistochem Mol Morphol. 2019; Feb; 27(2):147-154

4. Endoscopic endonasal skull base surgery in pediatric patients. A single center experience.

Giovannetti F, Mussa F, Priore P, Scagnet M, Arcovio E, Valentini V, Genitori L.

J Craniomaxillofac Surg. 2018 Dec;46(12):2017-2021. doi: 10.1016/j.jcms.2018.09.013. Epub 2018 Sep 24.

5. Surgery of complex craniofacial defects: A single-step AM-based methodology.

Volpe Y, Furferi R, Governi L, Uccheddu F, Carfagni M, Mussa F, Scagnet M, Genitori L. Comput Methods Programs Biomed. 2018 Oct;165:225-233. doi: 10.1016/j.cmpb.2018.09.002. Epub 2018 Sep 5.

6. Surgical Treatment of Central Nervous System Malformations.

Neonatal Surgery pp 615-65. 2019. Mirko Scagnet, Federico Mussa, Flavio Giordano, Regina Mura, Elena Arcovio, Manuela Grandoni (et. al) and Lorenzo Genitori

7. Current Practice in Preoperative Virtual and Physical Simulation in Neurosurgery.

Mussi E, Mussa F, Santarelli C, Scagnet M, Uccheddu F, Furferi R, Volpe Y, Genitori L. Bioengineering (Basel). 2020 Jan 3;7(1). pii: E7. doi: 10.3390/bioengineering7010007.



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