



# Dr. med. Alessandra Ferrarini

Specialista in pediatria e specialista in genetica medica, membro FMH

Consulente Medisyn Svizzera

Docente presso la facoltà di medicina USI Lugano

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## Sprachen

IT,FR,EN

## Berufserfahrung

- seit 2024 **Paediatrician and independent clinical geneticist, at Clinica Sant'Anna, Sorengo and consultant at Medisyn, Switzerland**
- seit 2022 **Accreditation at Swiss Medical Network**
- seit 2021 **Lecturer at Università della Svizzera Italiana (USI)**
- 2020–2024 Paediatrician and independent clinical geneticist, at Centro Medico, Stazione, Lugano
- 2019–2022 Head Physician, Head of Medical Genetics Service at Ospedale Italiano di Lugano (IOSI-OIL)
- 2013–2018 Chief Resident Physician and then Head of Service, Paediatrics Service (IPSI) San Giovanni Hospital, Bellinzona

## Ausbildung

- 2013 Resident Assistant Physician, Medical Genetics Service, Necker-Enfants Malades Hospital (Paris, France); activities at the outpatient clinics specialising in dysmorphology, genetic skeletal diseases, neurogenetic and mitochondrial diseases; head Prof Dr. med. A. Münnich
- 2011–2013 Chief physician, Integrated Service Mendrisio and Bellinzona Hospitals (Switzerland); responsible Prof Dr. med. M. G. Bianchetti and Prof. Dr. med. G.P. Ramelli Chief Consultant Physician, Integrated Service Mendrisio and Bellinzona Hospitals (Switzerland); responsible for Prof Dr. med. M. G. Bianchetti and Prof. Dr. med. G.P. Ramelli.
- 2009–2011 Assistant physician, Paediatrics Service, CHUV-Lausanne (Switzerland); responsible Prof. Dr. med. S. Fanconi
- 2007–2009 Assistant physician, Medical Genetics Service, CHUV-Lausanne (Switzerland); responsible Prof. Dr. med. J. Beckmann.
- 2004–2007 Assistant physician, Integrated Paediatrics Service, Mendrisio and Bellinzona Hospitals (Switzerland); responsible Prof. Dr. med. M.G. Bianchetti and Prof. Dr. med. G.P. Ramelli
- 2003–2004 Fellow physician, Department of Paediatrics, Medical Genetics Service, University Paediatric Clinic "G. e D. De Marchi", Milan (Italy), responsible Dr. med. A. Selicorni
- 2001–2003 Medical fellow, Department of Paediatrics, Paediatric Oncology Service, University Paediatric Clinic "G. e D. De Marchi", Milan (Italy), responsible Prof. Dr. med. V. Carnelli

1996–2001 University of Milan (Italy), Faculty of Medicine.  
Diploma of medical surgeon. Title of thesis: "Interferon therapy of angiomas in paediatric age".

## Mitgliedschaften

seit 2012 FMH Title Medical Genetics

seit 2011 FMH Title in Paediatrics

## Profil

### BORSE DI STUDIO - SPONSORIZZAZIONI

2003–2004: Borsa di studio contribuita da associazioni di genitori con bambini affetti da malattia rara (Associazione Nazionale di Volontariato Cornelia de Lange; Associazione Italiana Sindrome di Wolf-Hirschhorn) per attività di ricerca e assistenza.

2004: Borsa di studio contribuita dall'associazione AIDWEB.org–ONLUS, per la collaborazione nella creazione del sito web AIDWEB per le malattie rare.

2013: Borsa di studio contribuita da Telethon Suisse, per una collaborazione clinica col Servizio di genetica medica dell'ospedale Necker-Enfants Malades (Parigi, Francia).

1.11.2012: Creazione del Fondo Malattie Rare Pediatriche a scopo diagnostico e di ricerca nel campo delle malattie rare dei bambini (sovvenzionato dalla Fondazione Kiwanis Lugano per il primo anno di attività).

### SUPERVISIONE DI TESI DI MASTER PER L'OTTENIMENTO DELLA LAUREA IN MEDICINA

1. Ilaria Parenti (Università degli Studi di Milano, 2016)
2. Sabrina Mueller (università di Basilea, 2017)
3. Giogia Pellanda (Università di Basilea, 2017)
4. Luca Jermini (Università di Basilea, 2018)
5. Gabriel Bronz (Università di Berna, 2018)

### ATTIVITÀ DI REVIEWER PER RIVISTE SCIENTIFICHE

European Journal of Pediatrics - Human Genetics - The Journal of Pediatrics

### PARTECIPAZIONE A CONSORZI DI RICERCA INTERNAZIONALI

1. Consortium 16p11.2:

- 16p11.2 Locus modulates response to satiety before the onset of obesity. *Int J Obes* 2016 40:870-876.

- Chromosomal contacts connect loci associated with autism, BMI and head circumference phenotypes. *Mol Psychiatry* 2016; 22:836-849.

- Defining the effect of the 16p11.2 duplication on cognition, behavior, and medical comorbidities. *JAMA Psychiatry* 2016; 73:20-30.

2. Consortium 15q11.2:

- Estimating the effect size of the 15q11.2 BP1-BP3 deletion and its contribution to neurodevelopmental symptoms: recommendation for practice. *J Med Genet* 2019; 56:701-710.

## Publikationen

### BIBLIOGRAFIA (riviste scientifiche con revisione paritaria)

Fattore di Hirsch: 10 (ISI; 8 giugno 2020)

#### • ARTICOLI ORIGINALI (E REVIEWS SISTEMATICHE)

1. Zollino M, Lecce R, Selicorni A, Murdolo M, Mancuso I, Marangi G, Zampino G, Garavelli L, **Ferrarini A**, Rocchi M, Opitz JM, Neri G. A double cryptic chromosome imbalance is an important factor to explain phenotypic variability in Wolf-Hirschhorn syndrome. *Eur J Hum Genet* 2004;12:797-804.
2. Bartoli F, Martinez JM, **Ferrarini A**, Recaldini E, Bianchetti MG. Poor adherence to the prophylactic use of vitamin D3 in Switzerland. *J Pediatr Endocrinol Metab* 2006;19:281-282.
3. Robbiani JH, Simonetti G, Crosazzo L, **Ferrarini A**, Pronzini F, Bianchetti MG. False positive dipstick for urinary blood in childhood. *J Nephrol* 2006;19:605-606.
4. Van der Aa N, Rooms L, Vandeweyer G, van den Ende J, Reyniers E, Fichera M, Romano C, Delle Chiaie B, Mortier G, Menten B, Destrée A, Maystadt I, Männik K, Kurg A, Reimand T, McMullan D, Oley C, Brueton L, Bongers EM, van Bon BW, Pfund R, Jacquemont S, **Ferrarini A**, Martinet D, Schrandt-Stumpel C, Stegmann AP, Frints SG, de Vries BB, Ceulemans B, Kooy RF. Fourteen new cases contribute to the characterization of the 7q11.23 microduplication syndrome. *Eur J Med Genet* 2009;52:94-100.
5. **Ferrarini A**, Osterheld MC, Vial Y, de Viragh PA, Cotting J, Martinet D, Beckmann JS, Fellmann F. Familial occurrence of an association of multiple intestinal atresia and choanal atresia: a new syndrome? *Am J Med Genet A* 2009;149A:2661-2665.
6. Walters RG, Jacquemont S, Valsesia A, de Smith AJ, Martinet D, Andersson J, Falchi M, Chen F, Andrieux J, Lobbens S, Delobel B, Stutzmann F, El-Sayed Moustafa JS, Chèvre JC, Lecoeur C, Vatin V, Bouquillon S, Buxton JL, Boute O, Holder-Espinasse M, Cuisset JM, Lemaitre MP, Ambresin AE, Brioschi A, Gaillard M, Giusti V, Fellmann F, **Ferrarini A**, Hadjikhani N, Campion D, Guilmatre A, Goldenberg A, Calmels N, Mandel JL, Le Caignec C, David A, Isidor B, Cordier MP, Dupuis-Girod S, Labalme A, Sanlaville D, Béri-Dexheimer M, Jonveaux P, Leheup B, Ounap K, Bochukova EG, Henning E, Keogh J, Ellis RJ, Macdermot KD, van Haelst MM, Vincent-Delorme C, Plessis G, Touraine R, Philippe A, Malan V, Mathieu-Dramard M, Chiesa J, Blaumeiser B, Kooy RF, Caiazzo R, Pigeyre M, Balkau B, Sladek R, Bergmann S, Mooser V, Waterworth D, Reymond A, Vollenweider P, Waeber G, Kurg A, Palta P, Esko T, Metspalu A, Nelis M, Elliott P, Hartikainen AL, McCarthy MI, Peltonen L, Carlsson L, Jacobson P, Sjöström L, Huang N, Hurles ME, O'Rahilly S, Farooqi IS, Männik K, Jarvelin MR, Pattou F, Meyre D, Walley AJ, Coin LJ, Blakemore AI, Froguel P, Beckmann JS. A new highly penetrant form of obesity due to deletions on chromosome 16p11.2. *Nature* 2010;463:671-675.

7. Jacquemont S, Reymond A, Zufferey F, Harewood L, Walters RG, Kutalik Z, Martinet D, Shen Y, Valsesia A, Beckmann ND, Thorleifsson G, Belfiore M, Bouquillon S, Campion D, de Leeuw N, de Vries BB, Esko T, Fernandez BA, Fernández-Aranda F, Fernández-Real JM, Gratacòs M, Guilmatre A, Hoyer J, Jarvelin MR, Kooy RF, Kurg A, Le Caignec C, Männik K, Platt OS, Sanlaville D, Van Haelst MM, Villatoro Gomez S, Walha F, Wu BL, Yu Y, Aboura A, Addor MC, Alembik Y, Antonarakis SE, Arveiler B, Barth M, Bednarek N, Béna F, Bergmann S, Beri M, Bernardini L, Blaumeiser B, Bonneau D, Bottani A, Boute O, Brunner HG, Cailley D, Callier P, Chiesa J, Chrast J, Coin L, Coutton C, Cuisset JM, Cuvellier JC, David A, de Freminville B, Delobel B, Delrue MA, Demeer B, Descamps D, Didelot G, Dieterich K, Disciglio V, Doco-Fenzy M, Drunat S, Duban-Bedu B, Dubourg C, El-Sayed Moustafa JS, Elliott P, Faas BH, Faivre L, Faudet A, Fellmann F, **Ferrarini A**, Fisher R, Flori E, Forer L, Gaillard D, Gerard M, Gieger C, Gimelli S, Gimelli G, Grabe HJ, Guichet A, Guillin O, Hartikainen AL, Heron D, Hippolyte L, Holder M, Homuth G, Isidor B, Jaillard S, Jaros Z, Jiménez-Murcia S, Helas GJ, Jonveaux P, Kaksonen S, Keren B, Kloss-Brandstätter A, Knoers NV, Koolen DA, Kroisel PM, Kronenberg F, Labalme A, Landais E, Lapi E, Layet V, Legallic S, Leheup B, Leube B, Lewis S, Lucas J, MacDermot KD, Magnusson P, Marshall C, Mathieu-Dramard M, McCarthy MI, Meitinger T, Mencarelli MA, Merla G, Moerman A, Mooser V, Morice-Picard F, Mucciolo M, Nauck M, Ndiaye NC, Nordgren A, Pasquier L, Petit F, Pfundt R, Plessis G, Rajcan-Separovic E, Ramelli GP, Rauch A, Ravazzolo R, Reis A, Renieri A, Richart C, Ried JS, Rieubland C, Roberts W, Roetzer KM, Rooryck C, Rossi M, Saemundsen E, Satre V, Schurmann C, Sigurdsson E, Stavropoulos DJ, Stefansson H, Tengström C, Thorsteinsdóttir U, Tinahones FJ, Touraine R, Vallée L, van Binsbergen E, Van der Aa N, Vincent-Delorme C, Visvikis-Siest S, Vollenweider P, Völzke H, Vulto-van Silfhout AT, Waeber G, Wallgren-Pettersson C, Witwicki RM, Zwolinski S, Andrieux J, Estivill X, Gusella JF, Gustafsson O, Metspalu A, Scherer SW, Stefansson K, Blakemore AI, Beckmann JS, Froguel P. Mirror extreme BMI phenotypes associated with gene dosage at the chromosome 16p11.2 locus. *Nature* 2011; 478: 97-102.
8. **Ferrarini A**, Auteri-Kaczmarek A, Pica A, Boesch N, Heinimann K, Schafer SC, Vesnaver-Megalos S, Cina V, Beckmann JS, Monnerat C. Early occurrence of lung adenocarcinoma and breast cancer after radiotherapy of a chest wall sarcoma in a patient with a de novo germline mutation in TP53. *Fam Cancer* 2011; 10: 187-192.
9. Gervasini C, Russo S, Cereda A, Parenti I, Masciadri M, Azzollini J, Meli D, Aravena T, Doray B, **Ferrarini A**, Garavelli L, Selicorni A, Larizza L. Cornelia de Lange individuals with new and recurrent *SMC1A* mutations enhance delineation of mutation repertoire and phenotypic spectrum. *Am J Med Genet A* 2013; 161A: 2909-2919.
10. Lava SAG, Simonetti GD, **Ferrarini A**, Ramelli GP, Bianchetti MG. Regional differences in symptomatic fever management among pediatricians in Switzerland: The results of a cross-sectional Web-based survey. *Br J Clin Pharmacol* 2013; 75: 236-243.
11. **Ferrarini A**, Lava SAG, Simonetti GD, Ramelli GP, Bianchetti MG; on behalf of the Swiss Italian Society of Pediatrics. Influenzavirus B-associated acute benign myalgia cruris: An outbreak report and review of the literature. *Neuromuscul Disord* 2014;24:342-346.
12. Uestuener P, **Ferrarini A**, Santi M, Mardegan C, Bianchetti MG, Simonetti GD, Milani GP, Lava SAG. Taste acceptability of pulverized brand-name and generic drugs containing amlodipine or candesartan. *Int J Pharm* 2014;468:196-198.
13. Siegenthaler GM, Rizzi M, Bettinelli A, Simonetti GD, **Ferrarini A**, Bianchetti MG. Ureteral or vesical involvement in Henoch-Schönlein syndrome: a systematic review of the literature. *Pediatr Nephrol* 2014; 29: 235-239.

14. Ostini A, Ramelli GP, Mainetti C, Bianchetti MG, **Ferrarini A**. Recurrent Finkelstein-Seidlmayer disease in four first-degree relatives. *Acta Derm Venereol* 2015;28:622-623.
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16. Capoferri G, Milani GP, Ramelli GP, **Ferrarini A**, Bianchetti MG. Sporadic acute benign calf myositis: Systematic literature review. *Neuromuscul Disord* 2018;28:443-449.
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18. [Ferrarini A](#), [Benetti C](#), [Camozzi P](#), [Ostini A](#), [Simonetti GD](#), [Milani GP](#), [Bianchetti MG](#), [Lava SA](#). Acute hemorrhagic edema of young children: a prospective case series. *Eur J Pediatr* 2016;175:557-561.
19. Ostini A, Simonetti GD, Pellanda G, Bianchetti MG, **Ferrarini A**, Milani GP. Familial Henoch-Schönlein syndrome. *J Clin Rheumatol* 2016;22:80-81.
20. Bronz G, Gabriel H, Lava SAG, Ramelli GP, Luedeke M, Biskup S, Mainetti C, **Ferrarini A**. Whole exome sequencing revealed a candidate gene for Finkelstein-Seidlmayer disease. *Am J Pediatr* 2019;5:196-199.
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23. Pellanda F, Lava SAG, Milani GP, Bianchetti MG, **Ferrarini A**, Vanoni F. Immune deposits in skin vessels of patients with acute hemorrhagic edema of young children: a systematic literature review. *Pediatr Dermatol* 2020;37:120-123.
24. Malhotra A, **Ferrarini A** et al. De novo missense variants in LMBRD2 are associated with developmental and motor delays, brain structure abnormalities and dysmorphic features. *J Med Genet* 2020.
25. Lopergolo D, Privitera F, Castello G, Lo Rizzo C, Mencarelli MA, Pinto AM, Ariani F, Curro' A, Lamacchia V, Canitano R, Vaghi E, Ferrarini A, Baltodano GM, Lederer D, Van Maldergem L, Serrano M, Pineda M, Fons-Estupina MDC, Van Esch H, Breckpot J, Kumps C, Callewaer B, Mueller S, Rameli GP, Armstrong J, Renieri A, Mari F. IQSEC2 disorder: a new entity or a Rett spectrum continuum? *Clin Genet* 2021;99(3):462-474.
26. Betti C, Camozzi P, Gennaro V, Bianchetti MG, Scoglio M, Simonetti GD, Milani GP, Lava SAG, Ferrarini A. Atypical bacterial pathogens and small-vessel leukocytoclastic vasculitis of the skin in children: systematic literature review. *Pathogens* 2021;10(1):31-.

#### • REVIEWS NARRATIVE

27. Santoro L, **Ferrarini A**, Crosazzo L, Bianchetti MG. Primary vesicoureteric reflux and reflux nephropathy – new insights. *Curr Pediatr Rev* 2006;2:173-176.
28. Simonetti GD, Santoro L, **Ferrarini A**, Crosazzo-Francini L, Fossali E, Bianchetti MG. Systemic hypertension and proteinuria in childhood chronic renal parenchymal disease. Role of antihypertensive drug management. *Paediatr Drugs* 2007;9:413-418.
29. Bucher BS, **Ferrarini A**, Weber N, Bullo M, Bianchetti MG, Simonetti GD. Primary hypertension in childhood. *Curr Hypertens Report* 2013;15:444-452.
30. **Ferrarini A**, Jacquemont S, Beck Popovic M, Bonafé L, Martinet D. Puce à ADN: pourquoi et pour qui. *Rev Med Suisse* 2010;237:390-396.
31. Lava SAG, Simonetti GD, Bianchetti AA, **Ferrarini A**, Bianchetti MG. Prevention of vitamin D insufficiency in Switzerland: A never-ending story. *Int J Pharm* 2013;457:353-356.
32. **Ferrarini A**, Bianchetti AA, Fossali EF, Faré PB, Simonetti GD, Lava SAG, Bianchetti MG. What can we do to make antihypertensive medications taste better for children? *Int J Pharm* 2013;457:333-336.

#### • LETTERS - CASE REPORT

33. **Ferrarini A**, Selicorni A, Cagnoli G, Zollino M, Lecce R, Chines C, Battaglia A. Distinct facial dysmorphism, pre and postnatal growth retardation, microcephaly, seizures, mental retardation and hypotonia. *Ital J Pediatr* 2003;29:393-397.
34. Selicorni A, **Ferrarini A**, Cagnoli G, Fratoni A, Bottigelli M, Milani D. Additional case of Tsukahara's syndrome or new syndrome: further delineation of the association of microcephaly and radio-ulnar synostosis *Am J Med Genet* 2005;132A:189-190.
35. **Ferrarini A**, Bottigelli M, Milani D, Cagnoli G, Selicorni A. Two new cases of Barraquer-Simons syndrome. *Am J Med Gen* 2004;126A:427-429.

36. **Ferrarini A**, Baggi M, Flückiger R, Bianchetti MG. Intraoperative anaphylaxis to a chlorhexidine polymer in childhood. *Paediatr Anaesth* 2006;16:705.
37. Baldassarre E, Mendoza Sagaon M, **Ferrarini A**, Bianchetti MG. Severe systemic adverse reaction to proton pump inhibitors in an infant. *Pediatr Pulmonol* 2007;42:563-564.
38. **Ferrarini A**, Blumberg D, Cortesi C, Bianchetti MG. Henoch-Schönlein syndrome and pertussis. *Pediatr Infect Dis J* 2007;26:661.
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40. **Ferrarini A**, Ramelli GP, Bianchetti MG, Hedman J, Sharathkumar A, Shapiro A, Bourland C. Index of suspicion. *Pediatr Rev* 2009;30:479-485.
41. Capobianco S, Lava SA, Bianchetti MG, Martinet D, Belfiore M, Ramelli GP, **Ferrarini A**. Chromosomal microarray among children with intellectual disability: a useful diagnostic tool for the clinical geneticist. *Dev Med Child Neurol* 2014;56:290.
42. **Ferrarini A**, Gaillard M, Guerry F, Ramelli GP, Heidi F, Keddache CV, Wieland I, Beckmann JS, Jaquemont S, Martinet D. Potocki-Shaffer deletion encompassing ALX4 in a patient with frontonasal dysplasia phenotype. *Am J Med Genet A*. 2014;164:346-352.
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44. **Ferrarini A**, Milani GP, Bianchetti MG, Lava SAG. Acute hemorrhagic edema of infancy associated with Coxsackie virus infection. *Arch Pédiatr* 2018;25:244.

Bronz G, Leoni-Foglia C, Lava SG, Simonetti GD, **Ferrarini A**. Pathologic fracture revealed a rare syndromic form of genetic lipodystrophy. *Clin Dysmorphol* 2020;29:53-60.

## Akkreditierung

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## Fachgebiete

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## Kontakt

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